PRIOR®
Scientific

AUTOMATION GUIDE

Evident/Olympus microscopes

Introduction

We designed this brochure to provide in-depth information about the range of equipment compatible with Evident/ Olympus microscopes. It covers the majority of current Evident/Olympus microscopes, as well as some earlier generation products of the same type.

Please do not hesitate to contact Prior Scientific if your microscope does not appear on this list as some of the products shown here may still be compatible.

More information about our products can be found by contacting a Prior representative, emailing **inquiries@prior.com** or by visiting **prior.com.**

We also have an extensive collection of datasheets freely available on our website or contacting Prior Scientific.

While every effort has been made to ensure that the products listed are compatible with each microscope, specific add-ons or configurations may render some products incompatible. We recommend contacting a Prior Scientific sales manager before ordering.

Please note that the parts may vary in availability and part numbers and specifications may change without warning. Whilst we have attempted to verify that the information here is accurate, we cannot guarantee that it is completely up to date and error free; thus we suggest contacting Prior before ordering in order to ensure that all equipment will be compatible with your microscope and suitable for your application. The microscopes featured here are for illustrative purposes only. All intellectual property relating to these microscopes, including patents and trademarks, remain the property of their respective owners. Evident/Olympus is a registered trademark of Evident Corporation. ProScan®, OptiScan® and ZDeck® and the Prior Scientific logo are registered trademarks of Prior Scientific Ltd.

Contents

Introduction 3

Contents 4

ProScan III controller configuration guide 6

Evident/Olympus IX73 configuration chart 8

Evident/Olympus IX73 configuration guide 10
Motorized XY stages and sample holders 10
Stage accessories 10
Nanopositioning stages and sample holders 11
Objective positioners and adapters 11
Motorized focus 11
Autofocus 12
Illumination 12
Excitation path 13
Emission path 13
Deck inserts 13

Evident/Olympus IX83 configuration chart 14

Evident/Olympus IX83 configuration guide 16
Motorized XY stages and sample holders 16
Stage accessories 16
Nanopositioning stages and sample holders 17
Objective positioners and adapters 17
Illumination 18
Excitation path 18
Emission path 19
Deck inserts 19

Evident/Olympus IX71 configuration chart 20

Evident/Olympus IX71 configuration guide 22
Motorized XY stages and sample holders 22
Stage accessories 22
Nanopositioning stages and sample holders 23
Objective positioners and adapters 23
Motorized focus 23
Autofocus 24
Illumination 24
Excitation path 25
Emission path 25

Evident/Olympus IX81 configuration chart 26

Evident/Olympus IX81 configuration guide 28
Motorized XY stages and sample holders 28
Stage accessories 28
Nanopositioning stages and sample holders 29
Objective positioners and adapters 29
Motorized focus 29
Autofocus 30
Illumination 30
Excitation path 31
Emission path 31

Evident/Olympus BX41/BX51/BX43/BX53 configuration chart 32

Evident/Olympus BX41/BX51/BX43/ BX53 configuration guide 34
Stages and sample holders 34
Motorized XY stages and sample holders 34
Flat top XY motorized stages and sample holders 34
Large format XY motorized stages and sample holders . 35
Objective positioners and adapters 35
Motorized focus 35
Autofocus 36
Illumination 36
Excitation path 37
Robotic slide loader 37

Evident/Olympus BX61 configuration chart ... 38

Evident/Olympus BX61 configuration guide ... 40
Stages and sample holders 40
Motorized XY stages and sample holders 40
Flat top XY motorized stages and sample holders 40
Large format XY motorized stages and sample holders . 41
Objective positioners and adapters 41
Motorized focus 41
Autofocus 42
Illumination 42
Excitation path 43

Evident/Olympus BX63 configuration chart ... 44

Evident/Olympus BX63 configuration guide .. 46
Flat top XY motorized stages and sample holders 46
Objective positioners and adapters..... 46
Autofocus 47
Illumination 47
Excitation path..... 48

Evident/Olympus BX51WI/BX61WI configuration chart 50

Evident/Olympus BX51WI/BX61WI configuration guide 52
Stages and sample holders 52
Motorized XY stage and sample holders 52
ZDeck stages and sample holders 53
Nanopositioning stages and sample holders 53
Objective positioners and adapters..... 54
Motorized focus 54
Autofocus 54
Illumination 55
Excitation path..... 55

Evident/Olympus MX50/MX51 configuration chart 56

Evident/Olympus MX50/MX51 configuration guide 58
Stages and sample holders 58
Motorized XY stages and sample holders for up to 6 inch diameter wafers..... 58
Objective positioners and adapters..... 58
Motorized focus..... 59
Autofocus 59
Illumination 59
Excitation path..... 59

Evident/Olympus MX61/MX63 configuration chart 60

Evident/Olympus MX61/MX63 configuration guide 62
Stages and sample holders 62
Motorized XY stages and sample holders for up to 6 inch diameter wafers..... 62
Motorized XY stages and sample holders for up to 8 inch diameter wafers..... 62
Objective positioners and adapters..... 63
Motorized focus..... 63
Autofocus 63
Illumination 64
Excitation path..... 64

Evident/Olympus MX61L/MX63L configuration chart 66

Evident/Olympus MX61L/MX63L configuration guide 68
Stages and sample holders 68
Motorized XY stages and sample holders for up to 6 inch diameter wafers..... 68
Motorized XY stages and sample holders for up to 8 inch diameter wafers..... 68
Motorized XY stages and sample holders for up to 12 inch diameter wafers..... 69
Objective positioners and adapters..... 69
Motorized focus..... 70
Autofocus 70
Illumination 71
Excitation path..... 71

Evident/Olympus MVX10 configuration chart. 72

Evident/Olympus MVX10 configuration guide 74
Stages and sample holders 74
Motorized XY stages and sample holders..... 74
Flat top XY motorized stages and sample holders 74
Large format XY motorized stages and sample holders . 75
Motorized focus..... 75
Illumination 75
Excitation path..... 75

Evident/Olympus SZX series configuration chart 76

Evident/Olympus SZX configuration guide 78
Stages and sample holders 78
Motorized XY stages and sample holders..... 78
Flat top XY motorized stages and sample holders 78
Large format XY motorized stages and sample holders . 79
Motorized focus..... 79
Illumination 79
Excitation path..... 80

Notes 81

ProScan III controller configuration guide

The ProScan III controller range can be used to control a wide range Prior Scientific's microscope automation equipment. Choosing the correct controller is critical to ensuring that all of your chosen components can be used effectively. After selecting the hardware for your microscope, use the following guide to identify the correct controller. Systems which already utilize a ProScan III controller but cannot control some pieces of hardware may be upgraded using an ancillary box, depending on revision status.

All ProScan III controllers can be used with the CS200 series joysticks. The CS200 can fulfill XYZ joystick requirements and can be configured to control a number of automated functions, such as filter wheels and shutters, through its programmable buttons.

Contact Prior Scientific or refer to the CS200 user manual for further information.

For motorized microscope upgrades on a lower budget, please contact Prior Scientific to learn more about our OptiScan product range.

Stages: Determine if your stage is a linear or stepper motor stages as these controllers are not interchangeable. All ProScan III controllers which can control stages also support encoders.

Focus: All ProScan III controllers which can control stepper motor focus systems also support encoders. Nanopositioning products in this configuration guide are supplied with their own controller, which can be operated through the ProScan III if desired. If using a H101E1F, H101E2F or encoded ZDeck with an encoded focus system please contact Prior Scientific before placing your order.

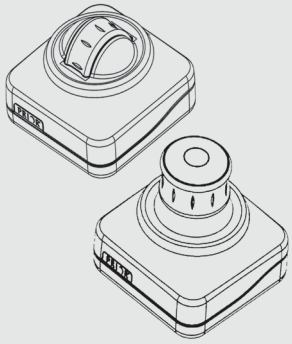
Filter wheels: For systems without a motorized stage or focus use the H31ZFE/V31F controller. Please note that is may not be possible to control more than 3 filter wheels with some third party software

Shutters: For systems without a motorized stage or focus use the H31ZFE/V31F controller. Please note that it may not be possible to control more than 3 shutters with some third party software.

Metal Halide Illuminators: Third party software can control the L200S directly without the need for a controller. Alternatively, the built in shutter of the L200S and L220S can be controlled through any ProScan III controller which has a shutter port. The lamp on/off and shutter open/closed trigger ports can also be controlled though any controller with a trigger board. The L200 and L220 are completely standalone and do not require a ProScan III controller.

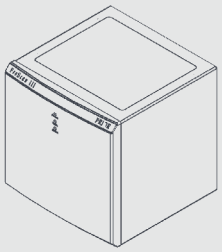
Slide loader: A variant of the ProScan III controller is supplied with the SL160 slide loader to control all motion and illumination options.

CS200XY/ CS200Z



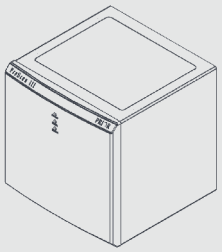
- XY and/or Z joystick control
- Programmable buttons

H31ZFE/V31F



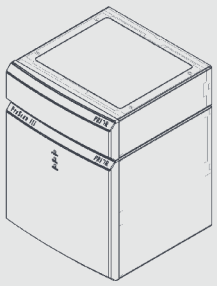
- 3x filter wheels
- 3x shutters
- L200S
- LDB103

H31XYZE/ V31XYZE



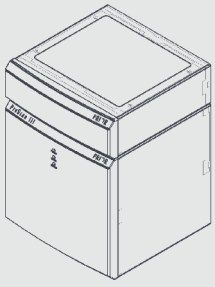
- XY stepper stage
- Z axis (excl.piezo)
- Encoders

V31XYZET



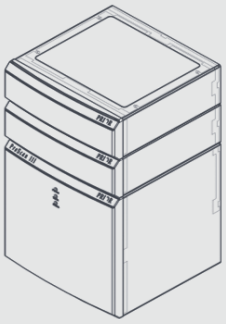
- XY stepper stage
- Z axis (excl. piezo)
- Encoders
- Trigger board

H31XYZEF/ V31XYZEF



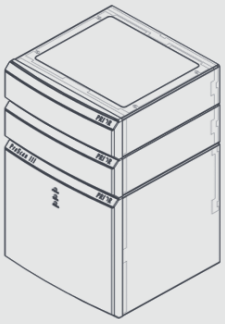
- XY stepper stage
- Z axis (excl. piezo)
- Encoders
- 3x filter wheels
- 3x shutters
- L200S

V31XYZEFT



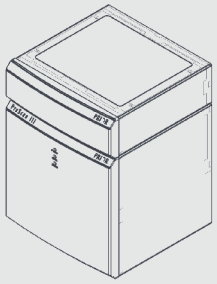
- XY stepper stage
- Z axis (excl.piezo)
- Encoders
- 3x filter wheels
- 3x shutters
- L200S
- LDB103
- Trigger board

V31XYZEF2



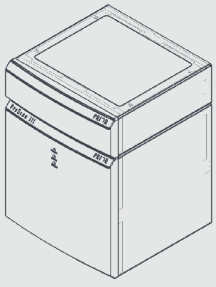
- XY stage
- Z axis (excl. piezo)
- Encoders
- 6x filter wheels
- 6x shutters
- L200S

VLD31XYZFG



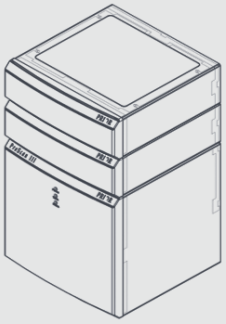
- XY linear stage
- Z axis (excl. piezo)
- Encoders
- 3x filter wheels
- 3x shutters
- L200S

VLD31XYZTG



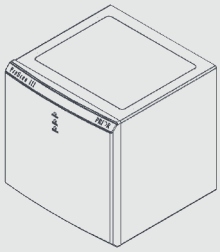
- XY linear stage
- Z axis (excl. piezo)
- Encoders
- Trigger board

VLD31XYZFTG



- XY linear stage
- Z axis (excl. piezo)
- Encoders
- 3x filter wheels
- 3x shutters
- L200S
- Trigger board

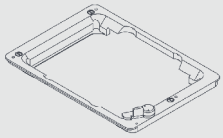
HLD31XYZG/ VLD31XYZG



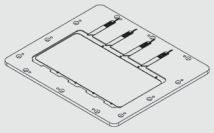
- XY stage
- Z axis (excl. piezo)
- Encoders

Evident/Olympus IX73 configuration chart

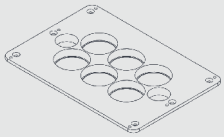
6 Sample holders



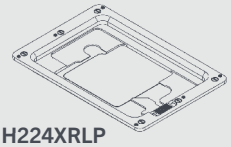
H223XR
Extra recessed holder for micro titer plates (85x128mm)



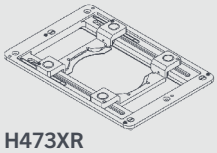
H234XR
Four slide holder, extra recessed



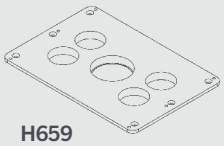
H658
Holder for six mounted metallurgical specimens



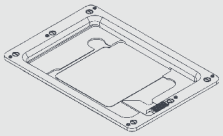
H224XRLP
Low profile 3 in x 1 in slide holder



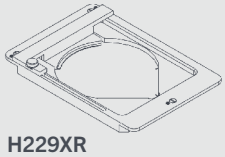
H473XR
Universal sample holder



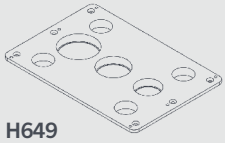
H659
Holder for one mounted metallurgical specimen



H237XRLP
Low profile 3 in x 2 in slide holder

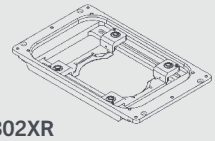


H229XR
Universal Petri dish holder

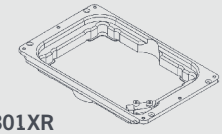


H649
Holder for a single mounted metallurgical specimen

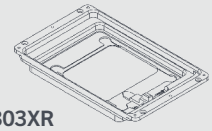
9 Nanopositioning sample holders



QGSP302XR
SP universal sample holder XR

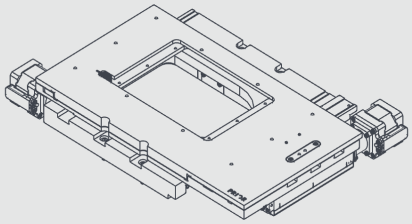


QGSP301XR
SP multiwell holder XR

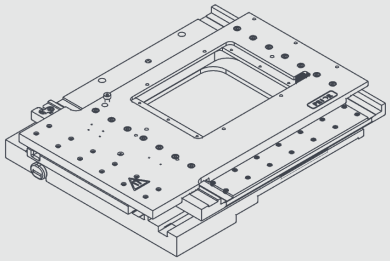


QGSP303XR
Slide holder

1 Stages

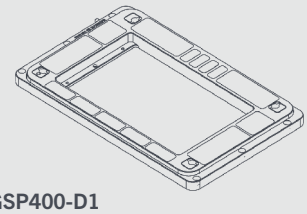


H117P1XD, H117E1XD
Proscan inverted stage



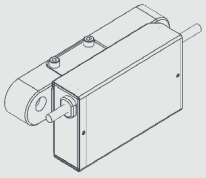
HLD117IX
Linear motor stage

9 Nanopositioning stages

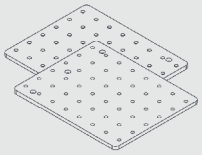


QGSP400-D1
QGSP600-D1
QGSP800-D1

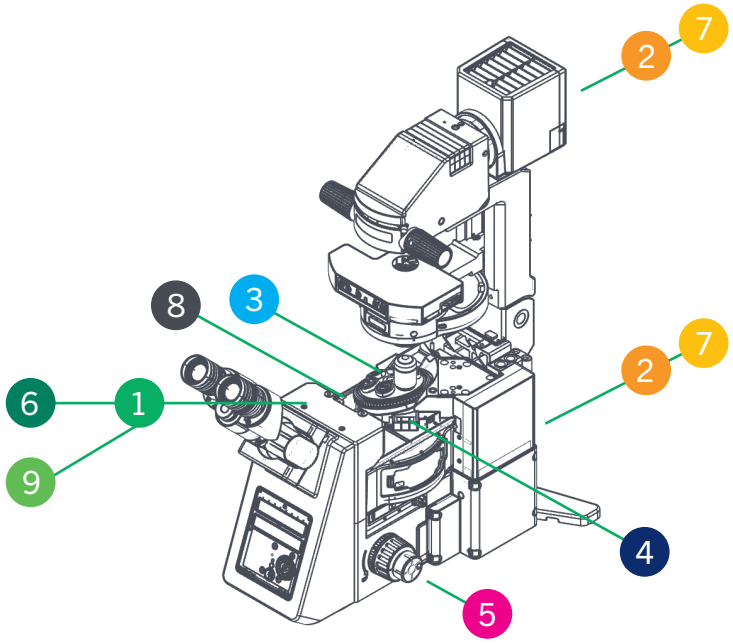
6 Stage accessories



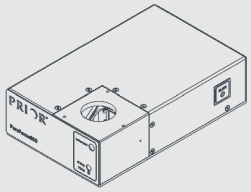
H4100
Heat box mounting kit



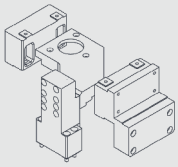
H117ACCM
Pair of stage extension wings



4 Autofocus

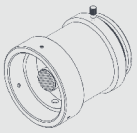


PF850
PF head, controller with digipot power supply, cables



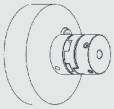
PF202- Two deck system (both decks used)
PF208 - Two deck system (unused upper deck)
PF214 - Single deck system
PureFocus mounting kits

5 Motorized focus (IX73 only)



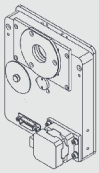
PS3H122R
Generic focus drive and adapter

H807
Focus sleeve

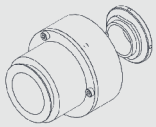


H122KBIX
Direct fine focus coupling

8 Emission path

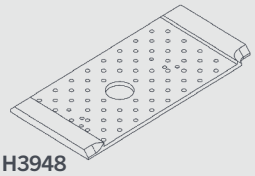


HF106A, HF110, HF110A

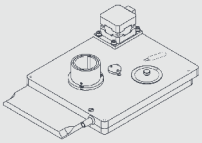


HF236
Filter wheel adapter

8 Deck inserts

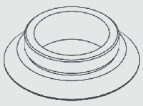


H3948
Breadboard for filter wheel deck

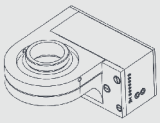


HF108IX3
Breadboard for filter wheel deck

3 Piezo objective positioner



QG-OP-MIC-RMS
Microscope adapter

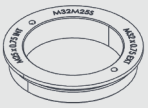


QGOP-400-INV-D1
OP400 objective scanner system (0–500 g load)

QGOP-400-INV-HL-D1
OP400 objective scanner system (500–1000 g load)

QGOP-800-INV-D1
OP800 objective scanner system (0–500 g load)

QGOP-800-INV-HL-D1
OP800 objective scanner system (500–1000 g load)



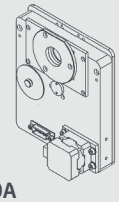
QG-OP-OBJ-RMS
Objective adapters

7 Illumination

L200SIX, L220SIX
Fluorescence illuminator, built in shutter

L200IX, L220IX
Fluorescence illuminator

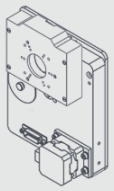
2 Excitation path



HF110A
Filter wheel, 10 position, 25 mm diameter filters

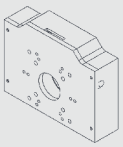
HF106A
Filter wheel, 6 position, 25 mm diameter filters

HF108A
Filter wheel, 8 position, 32 mm diameter filters



HF110A + HF202HT
10 position 25 mm diameter filter wheel plus shutter combination

HF108A + HF201HT
8 position 32 mm diameter filter wheel plus shutter combination



HF202HT
25mm high temperature standalone shutter

HF204HT
35mm high temperature standalone shutter

HF235
Filter wheel adapter

HF238
Shutter adapter for transmitted lamp

See the following pages for more product information.

Evident/Olympus IX73 configuration guide

The Evident/Olympus IX73 microscope has two variants; the IX73P1F and IX73P2F, which have 1 and 2 decks respectively for filter turrets and other accessories. It is important to identify the variant in order to ensure compatibility.

Motorized XY stages and sample holders

All the sample holders listed are compatible with the H117P1XD, H117E1XD and HLD117IX. At least one sample holder is required. For microscopes equipped with motorized DIC units, the H4100 is required to ensure the stage can be fitted correctly. The H117ACCM breadboard attachments can be added to all stages to provide mounting points for probe stations.

Part	Description
HLD117IX	Linear motor stage, LH cable
H117P1XD	ProScan inverted stage, 1 mm pitch, 400 step, Evident/Olympus IX73
H117E1XD	ProScan inverted stage, encoded, 1 mm pitch, 400 step, Evident/Olympus IX73
H473XR	Universal sample holder (slides, Petri dishes, small flasks), extra recessed
H223XR	Extra recessed holder for micro titer plates (85x128mm)
H224XRLP	Low profile 3 in x 1 in slide holder, extra recessed
H229XR	Universal Petri dish holder, extra recessed
H234XR	Four 3 in x 1 in slide holder, extra recessed
H23X200	200 ml flask holder (Greiner)
H237XRLP	Low profile 3 in x 2 in slide holder, extra recessed
H229D35XR-6	Holder for 6 x 35 mm Petri dishes
H649	Holder for a single 1 in, 1.25 in and 1.5 in mounted metallurgical specimen
H657	Holder for one mounted metallurgical specimen, 2 in diameter
H658	Holder for six mounted metallurgical specimens, 1.25 in diameter
H659	Holder for one mounted metallurgical specimen, 1.5 in diameter with 1, 2, 4 or 8 chambers

Stage accessories

Part	Description
H4100	Heat box mounting kit for IX73 required when mounting a stage on a micro-scope with a motorized DIC unit
H117ACCM	Pair of stage extension wings for H117 stages, breadboard format with 6 mm tapped holes for mounting micromanipulators or other accessories

Nanopositioning stages and sample holders

Nanopositioning stages require a suitable motorized stage for mounting. All Prior motorized stages listed in this guide are compatible. Please contact Prior Scientific if the microscope has another brand of motorized stage. Note that a sample holder from the nanopositioning stage section is required for use, and replaces the sample holder fitted to the motorized stage.

Part	Description
QGSP400-D1	System SP400, 400 µm travel, and NPC-D-6110 controller
QGSP600-D1	System SP600, 600 µm travel, and NPC-D-6110 controller
QGSP800-D1	System SP800, 800 µm travel, and NPC-D-6110 controller
QGSP301XR	SP multiwell holder XR
QGSP302XR	SP universal sample holder XR
QGSP303XR	SP single slide holder suitable for 1 in x 3 in and 2 in x 3 in slides

Objective positioners and adapters

When ordering ensure the correct part number is used to specify inverted calibration. Objective positioners require a threaded adapter in order to be fitted to the microscope nosepiece and the microscope objective. Evident/Olympus microscopes typically use RMS threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some IX73 nosepieces have a raised lip surrounding the objective positions, which may clash with the objective positioner; a 15 mm spacer can be added to clear the lip. Please note that the two objective positions adjacent to the objective positioner will not be usable due to space constraints. A high load calibration is available for specialist heavy objectives. Control of the nanopositioning stage via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGOP-400-INV-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-400-INV-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QGOP-800-INV-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-800-INV-HL-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QG-OP-MIC-RMS	OP microscope adapter RMS
QG-OP-OBJ-RMS	OP objective adapter M32 x 0.75 to RMS
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP-400 objective

Motorized focus

The PS3H122R plus H807 combination is required to drive the fine focus knob of the microscope. The coarse focus will not be motorized. The H122KBIX direct coupling can be added for more precise motorized control.

Part	Description
PS3H122R	Generic focus drive and adapter with rotating cable system preventing cable twisting
H807	Evident/Olympus BX and IX focus sleeve
H122KBIX	Direct fine focus coupling for Evident/Olympus IX/BX microscopes

Autofocus

The PF850 is a standalone hardware autofocus. A kit is required for mounting. The PF202 is compatible with 2-deck IX73 systems where both decks are in use. The PF208 is compatible with 2-deck systems where only the lower deck is in use. The PF214 is compatible with 1-deck systems. The PF200, PF209 and PF300 are required for setup and maintenance. The PF404 is required for use with piezo nanopositioning systems.

Part	Description
PF850	PF head, controller with digipot power supply, cables
PF850M	PF head - line mode, controller with digipot power supply, cables
PF202	IX73/IX83 PureFocus mounting kit for 2-deck system (both decks being used)
PF208	IX73/IX83 PureFocus mounting kit for 2-deck system (unused upper deck)
PF214	IX73/IX83 PureFocus mounting kit for 1-deck system
PF209	PureFocus setup sample slide
PF200	PureFocus setup camera alignment target type 1, RMS.DIA 0.8 x 36
PF300	PureFocus setup camera jig
PF404	Piezo cable for PF850 15D to BNC

Illumination

The L200IX and L200SIX are recommended for fluorescence microscopy (see **datasheet** for details). The L200SIX has a built in shutter mechanism which can be controlled via a ProScan III controller, so a standalone shutter is not required. The LDB103OL requires a ProScan III controller for operation and is recommended if purchasing a ProScan III controller. 35 mm shutters and filter wheels are recommended for widefield applications.

Part	Description
L200SIX	L200 Standard box, lamp, light guide, shutter and Evident/Olympus IX Collimator
L200IX	L220 Standard box, lamp, light guide and Evident/Olympus IX Collimator
L220SIX	L220 Standard box, lamp, light guide, shutter and Evident/Olympus IX Collimator
L220IX	L220 Standard box, lamp, light guide and Evident/Olympus IX Collimator

Excitation path

Filter wheels are not supplied with filters. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed below. The HF235 adapter is required for filter wheels and shutters in the main episcopic illumination pathway. The H238 adapter is required for filter wheels and shutters in the transmitted light path.

Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF238	Shutter adapter for transmitted lamp
HF202HT	25 mm high temperature standalone shutter
HF204HT	35 mm high temperature standalone shutter
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand
HF108	Filter wheel, 8 position, 32 mm diameter filters with stand
HF108A	Filter wheel, 8 position, 32 mm diameter filters without stand
HF110A + HF200HT	10 position 25 mm diameter filter wheel plus shutter combination
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

Emission path

The HF236 adapter is required for fitting filter wheels to the emission port of the microscope.

Part	Description
HF236	Filter wheel adapter for Evident/Olympus IX series microscopes
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand

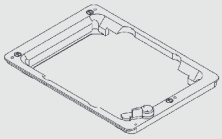
Deck inserts

The HF108IX3 and H3948 slot into the IX73 decks. The HF108IX3 can be utilized as an emission filter wheel. The H3948 can be used as a mounting plate for third party accessories.

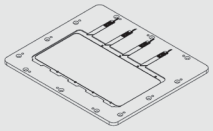
Part	Description
H3948	Breadboard for filter wheel deck of IX3 Microscope, no wheel or attachments
HF108IX3	Breadboard filter wheel, 8 position, 32 mm diameter filters for Evident/Olympus IX3

Evident/Olympus IX83 configuration chart

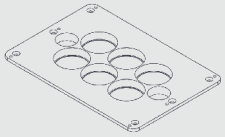
6 Sample holders



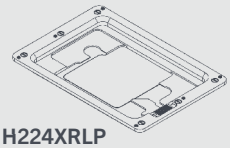
H223XR
Extra recessed holder for micro titer plates (85x128mm)



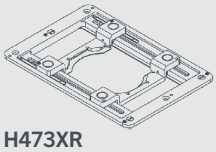
H234XR
Four slide holder, extra recessed



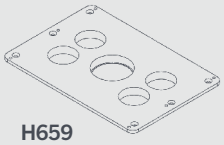
H658
Holder for six mounted metallurgical specimens



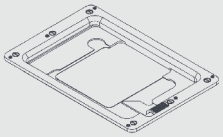
H224XRLP
Low profile 3 in x 1 in slide holder



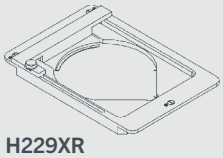
H473XR
Universal sample holder



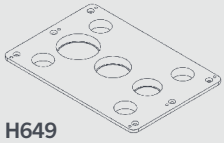
H659
Holder for one mounted metallurgical specimen



H237XRLP
Low profile 3 in x 2 in slide holder

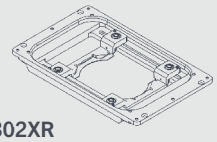


H229XR
Universal Petri dish holder

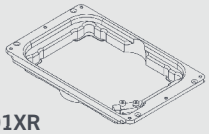


H649
Holder for a single mounted metallurgical specimen

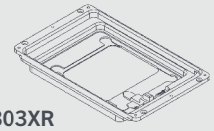
9 Nanopositioning sample holders



QGSP302XR
SP universal sample holder XR

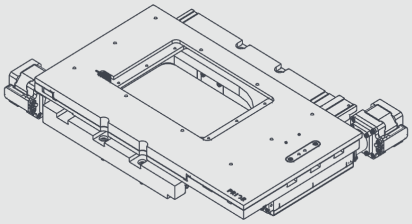


QGSP301XR
SP multiwell holder XR

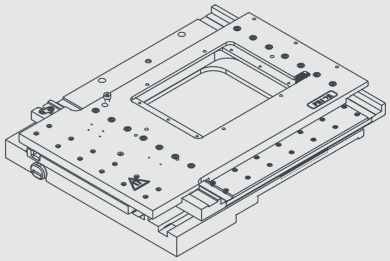


QGSP303XR
Slide holder

1 Stages

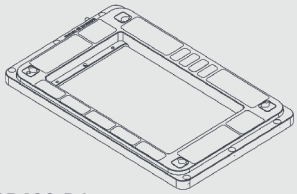


H117P1XD, H117E1XD
Proscan inverted stage



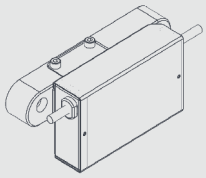
HLD117IX
Linear motor stage

9 Nanopositioning stages

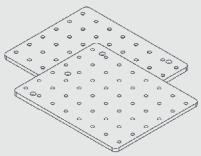


QGSP400-D1
QGSP600-D1
QGSP800-D1

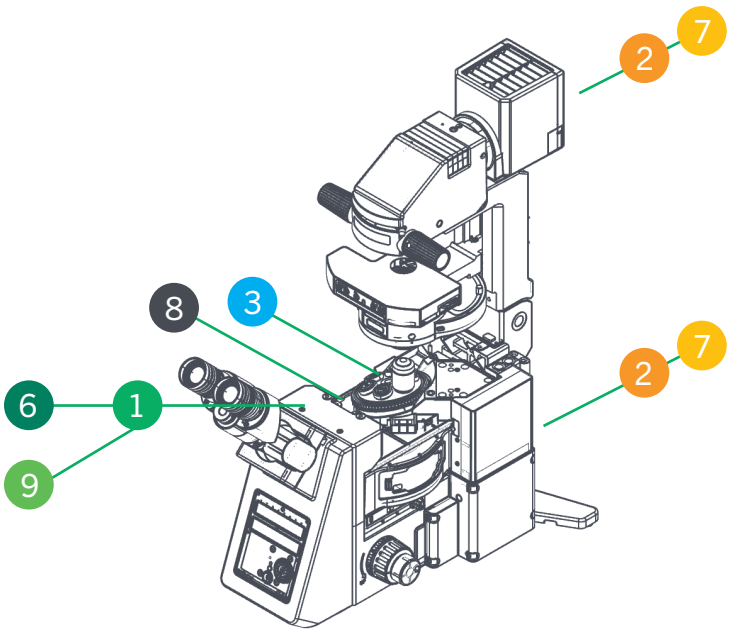
6 Stage accessories



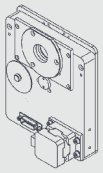
H4100
Heat box mounting kit



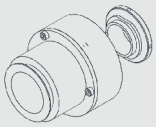
H117ACCM
Pair of stage extension wings



8 Emission path

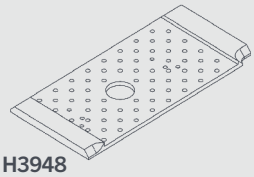


HF106A, HF110, HF110A

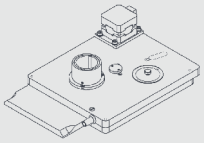


HF236
Filter wheel adapter

8 Deck inserts

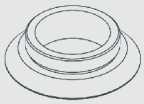


H3948
Breadboard
for filter wheel deck

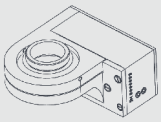


HF108IX3
Breadboard
for filter wheel deck

3 Piezo objective positioner



QG-OP-MIC-RMS
Microscope adapter

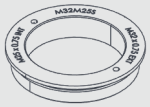


QGOP-400-INV-D1
OP400 objective scanner system (0–500 g load)

QGOP-400-INV-HL-D1
OP400 objective scanner system (500–1000 g load)

QGOP-800-INV-D1
OP800 objective scanner system (0–500 g load)

QGOP-800-INV-HL-D1
OP800 objective scanner system (500–1000 g load)



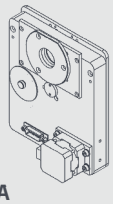
QG-OP-OBJ-RMS
Objective adapters

7 Illumination

L200SIX, L220SIX
Fluorescence illuminator, built in shutter

L200IX, L220IX
Fluorescence illuminator

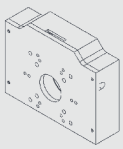
2 Excitation path



HF110A
Filter wheel, 10 position, 25 mm diameter filters

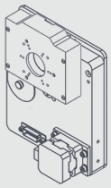
HF106A
Filter wheel, 6 position, 25 mm diameter filters

HF108A
Filter wheel, 8 position, 32 mm diameter filters



HF202HT
25mm high temperature standalone shutter

HF204HT
35mm high temperature standalone shutter



HF110A + HF202HT
10 position 25 mm diameter filter wheel plus shutter combination

HF108A + HF201HT
8 position 32 mm diameter filter wheel plus shutter combination

HF235
Filter wheel adapter

HF238
Shutter adapter for transmitted lamp

Evident/Olympus IX83 configuration guide

Motorized XY stages and sample holders

All the sample holders listed are compatible with the H117P1XD, H117E1XD and HLD117IX. At least one sample holder is required. For microscopes equipped with motorized DIC units, the H4100 is required to ensure the stage can be fitted correctly. The H117ACCM breadboard attachments can be added to all stages to provide mounting points for probe stations.

Part	Description
HLD117IX	Linear motor stage, LH cable (Evident/Olympus IX83)
H117P1XD	ProScan inverted stage, 1 mm pitch, 400 step, Evident/Olympus IX83 (DIC)
H117E1XD	ProScan inverted stage, encoded, 1 mm pitch, 400 step, Evident/Olympus IX83 (DIC)
H473XR	Universal sample holder (slides, Petri dishes, small flasks), extra recessed
H223XR	Extra recessed holder for micro titer plates (85x128mm)
H224XRLP	Low profile 3 in x 1 in slide holder, extra recessed
H229XR	Universal Petri dish holder, extra recessed
H234XR	Four 3 in x 1 in slide holder, extra recessed
H23X200	200 ml flask holder (Greiner)
H237XRLP	Low profile 3 in x 2 in slide holder, extra recessed
H229D35XR-6	Holder for 6 x 35 mm Petri dishes
H649	Holder for a single 1 in, 1.25 in and 1.5 in mounted metallurgical specimen
H657	Holder for one mounted metallurgical specimen, 2 in diameter
H658	Holder for six mounted metallurgical specimens, 1.25 in diameter
H659	Holder for one mounted metallurgical specimen, 1.5 in diameter with 1, 2, 4 or 8 chambers

Stage accessories

Part	Description
H4100	Heat box mounting kit for IX83 required when mounting a stage on a micro-scope with a motorized DIC unit
H117ACCM	Pair of stage extension wings for H117 stages, breadboard format with 6 mm tapped holes for mounting micromanipulators or other accessories

Nanopositioning stages and sample holders

Nanopositioning stages require a suitable motorized stage for mounting. All Prior motorized stages listed in this guide are compatible. Please contact Prior Scientific if the microscope has another brand of motorized stage. Note that a sample holder from the nanopositioning stage section is required for use, and replaces the sample holder fitted to the motorized stage.

Part	Description
QGSP400-D1	System SP400, 400 µm travel, and NPC-D-6110 controller
QGSP600-D1	System SP600, 600 µm travel, and NPC-D-6110 controller
QGSP800-D1	System SP800, 800 µm travel, and NPC-D-6110 controller
QGSP301XR	SP multiwell holder XR
QGSP302XR	SP universal sample holder XR
QGSP303XR	SP single slide holder suitable for 1 in x 3 in and 2 in x 3 in slides

Objective positioners and adapters

When ordering ensure the correct part number is used to specify inverted calibration. Objective positioners require a threaded adapter in order to be fitted to the microscope nosepiece and the microscope objective. Evident/Olympus microscopes typically use RMS threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some IX83 nosepieces have a raised lip surrounding the objective positions, which may clash with the objective positioner; a 15 mm spacer can be added to clear the lip. Please note that the two objective positions adjacent to the objective positioner will not be usable due to space constraints. A high load calibration is available for specialist heavy objectives. Control of the nanopositioning stage via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGOP-400-INV-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-400-INV-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QGOP-800-INV-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-800-INV-HL-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QG-OP-MIC-RMS	OP microscope adapter RMS
QG-OP-OBJ-RMS	OP objective adapter M32 x 0.75 to RMS
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP-400 objective

Illumination

The L200IX and L200SIX are recommended for fluorescence microscopy (see **datasheet** for details). The L200SIX has a built in shutter mechanism which can be controlled via a ProScan III controller, so a standalone shutter is not required.

Part	Description
L200SIX	L200 Standard box, lamp, light guide, shutter and Evident/Olympus IX Collimator
L200IX	L220 Standard box, lamp, light guide and Evident/Olympus IX Collimator
L220SIX	L220 Standard box, lamp, light guide, shutter and Evident/Olympus IX Collimator
L220IX	L220 Standard box, lamp, light guide and Evident/Olympus IX Collimator

Excitation path

Filter wheels are not supplied with filters. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed below. The HF235 adapter is required for filter wheels and shutters in the main episcopic illumination pathway. The H238 adapter is required for filter wheels and shutters in the transmitted light path.

Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF238	Shutter adapter for transmitted lamp
HF202HT	25 mm high temperature standalone shutter
HF204HT	35 mm high temperature standalone shutter
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand
HF108	Filter wheel, 8 position, 32 mm diameter filters with stand
HF108A	Filter wheel, 8 position, 32 mm diameter filters without stand
HF110A + HF200HT	10 position 25 mm diameter filter wheel plus shutter combination
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

Emission path

The HF236 adapter is required for fitting filter wheel to the emission port of the microscope.

Part	Description
HF236	Filter wheel adapter for Evident/Olympus IX series microscopes
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand

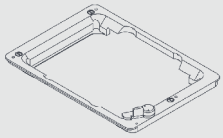
Deck inserts

The HF108IX3 and H3948 slot into the IX83 decks. The HF108IX3 can be utilized as an emission filter wheel. The H3948 can be used as a mounting plate for third party accessories.

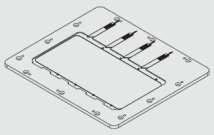
Part	Description
H3948	Breadboard for filter wheel deck of IX3 Microscope, no wheel or attachments
HF108IX3	Breadboard filter wheel, 8 position, 32 mm diameter filters for Evident/Olympus IX3

Evident/Olympus IX71 configuration chart

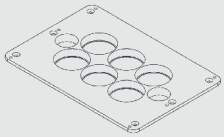
6 Sample holders



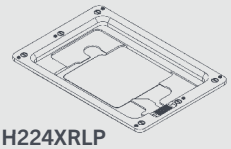
H223XR
Extra recessed holder for micro titer plates (85x128mm)



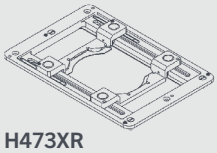
H234XR
Four slide holder, extra recessed



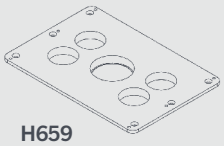
H658
Holder for six mounted metallurgical specimens



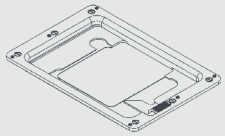
H224XRLP
Low profile 3 in x 1 in slide holder



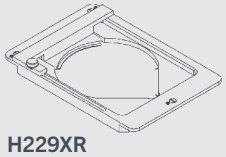
H473XR
Universal sample holder



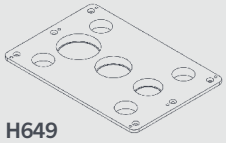
H659
Holder for one mounted metallurgical specimen



H237XRLP
Low profile 3 in x 2 in slide holder

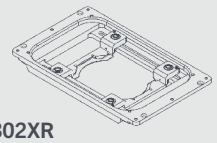


H229XR
Universal Petri dish holder

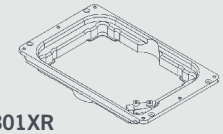


H649
Holder for a single mounted metallurgical specimen

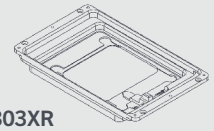
9 Nanopositioning sample holders



QGSP302XR
SP universal sample holder XR

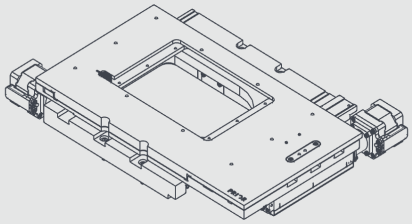


QGSP301XR
SP multiwell holder XR



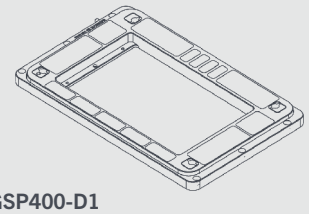
QGSP303XR
Single slide holder

1 Stages



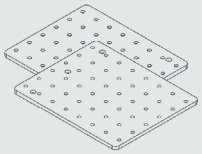
H117P1I4, H117E1I4
ProScan inverted stage

9 Nanopositioning stages

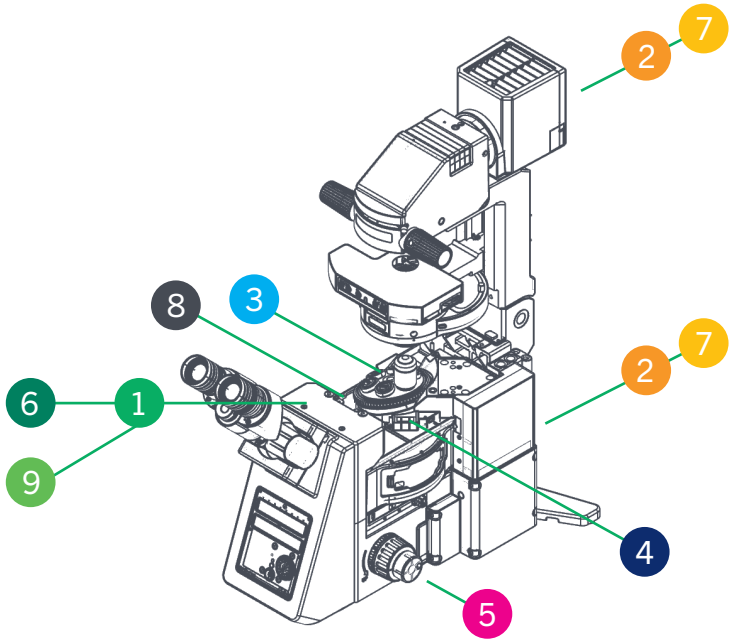


QGSP400-D1
QGSP600-D1
QGSP800-D1

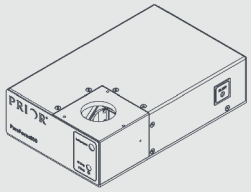
6 Stage accessories



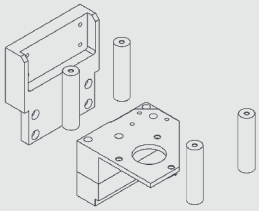
H117ACCM
Pair of stage extension wings



4 Autofocus

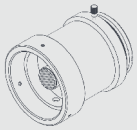


PF850
PF head, controller with digipot power supply, cables



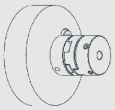
PF203
PureFocus mounting kits

5 Motorized focus



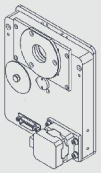
PS3H122R
Generic focus drive and adapter

H807
Focus sleeve

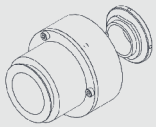


H122KBIX
Direct fine focus coupling

8 Emission path

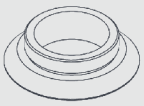


HF106A, HF108, HF108A, HF110, HF110A

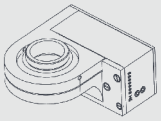


HF236
Filter wheel adapter

3 Piezo objective positioner



QG-OP-MIC-RMS
Microscope adapter

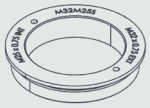


QGOP-400-INV-D1
OP400 objective scanner system (0–500 g load)

QGOP-400-INV-HL-D1
OP400 objective scanner system (500–1000 g load)

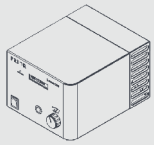
QGOP-800-INV-D1
OP800 objective scanner system (0–500 g load)

QGOP-800-INV-HL-D1
OP800 objective scanner system (500–1000 g load)



QG-OP-OBJ-RMS
Objective adapter

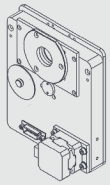
7 Illumination



L200SIX, L220SIX
Fluorescence illuminator, built in shutter

L200IX, L220IX
Fluorescence illuminator

2 Excitation path



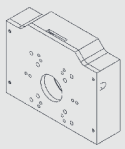
HF110
Filter wheel, 10 position, 25 mm diameter filters with stand

HF110A
Filter wheel, 10 position, 25 mm diameter filters, no stand

HF106A
Filter wheel, 6 position, 25 mm diameter filters

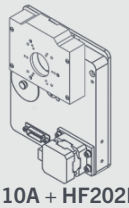
HF108
Filter wheel, 8 position, 32 mm diameter filters with stand

HF108A
Filter wheel, 8 position, 32 mm diameter filters, no stand



HF202HT
25mm high temperature standalone shutter

HF204HT
35mm high temperature standalone shutter



HF110A + HF202HT
10 position 25 mm diameter filter wheel plus shutter combination

HF108A + HF201HT
8 position 32 mm diameter filter wheel plus shutter combination

HF235
Filter wheel adapter

HF238
Shutter adapter for transmitted lamp

See the following pages for more product information.

Evident/Olympus IX71 configuration guide

Motorized XY stages and sample holders

All the sample holders listed are compatible with the H117P1XD, H117E1XD, H117P1I4 and H117E1I4. The specifications of the –XD and –I4 variants are identical. The frame size means the HLD117IX is not compatible with this microscope. At least one sample holder is required for each stage. The H117ACCM breadboard attachments can be added to all to provide mounting points for probe stations.

Part	Description
H117P1I4	ProScan inverted stage, part encoded, 1 mm pitch, 400 step, Evident/Olympus IX
H117E1I4	ProScan inverted stage, encoded, 1 mm pitch, 400 step, Evident/Olympus IX
H117P1XD	ProScan inverted stage, part encoded, 1 mm pitch, 400 Step, Evident/Olympus IX73 and IX83 (DIC)
H117E1XD	ProScan inverted stage, encoded, 1 mm pitch, 400 step, Evident/Olympus IX73 and IX83 (DIC)
H473XR	Universal sample holder (slides, Petri dishes, small flasks), extra recessed
H223XR	Extra recessed holder for micro titer plates (85x128mm) with diagonal corner sections removed
H224XRLP	Low profile 3 in x 1 in slide holder, extra recessed
H229XR	Universal Petri dish holder, extra recessed
H234XR	Four 3 in x 1 in slide holder, extra recessed
H23X200	200ml flask holder (Greiner)
H237XRLP	Low profile 3 in x 2 in slide holder, extra recessed
H229D35XR-6	Holder for 6 x 35mm Petri dishes
H649	Holder for a single 1 in, 1.25 in and 1.5 in mounted metallurgical specimen
H657	Holder for one mounted metallurgical specimen, 2 in diameter
H658	Holder for six mounted metallurgical specimens, 1.25 in diameter
H659	Holder for one mounted metallurgical specimen, 1.5 in diameter with 1, 2, 4 or 8 chambers

Stage accessories

Part	Description
H117ACCM	Pair of stage extension wings for H117 stages, breadboard format with 6 mm tapped holes for mounting micromanipulators or other accessories

Nanopositioning stages and sample holders

Nanopositioning stages require a suitable motorized stage for mounting. All Prior motorized stages listed in this guide are compatible. Please contact Prior Scientific if the microscope has another brand of motorized stage. Note that a sample holder from the nanopositioning stage section is required for use, and replaces the sample holder fitted to the motorized stage. Control of the nanopositioning stage via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGSP400-D1	System SP400, 400 µm travel, and NPC-D-6110 controller
QGSP600-D1	System SP600, 600 µm travel, and NPC-D-6110 controller
QGSP800-D1	System SP800, 800 µm travel, and NPC-D-6110 controller
QGSP301XR	SP multiwell holder XR
QGSP302XR	SP universal sample holder XR
QGSP303XR	SP single slide holder suitable for 1 in x 3 in and 2 in x 3 in slides

Objective positioners and adapters

When ordering ensure the correct part number is used to specify inverted calibration. Objective positioners require a threaded adapter in order to be fitted to the microscope nosepiece and the microscope objective. Evident/Olympus microscopes typically use RMS threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some IX71 nosepieces have a raised lip surrounding the objective positions, which may clash with the objective positioner; a 15mm spacer can be added to clear the lip. Please note that the two objective positions adjacent to the objective positioner will not be usable due to space constraints; additional positions may be unusable on smaller nosepieces. A high load calibration is available for specialist heavy objectives. Control of the nanopositioning stage via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGOP-400-INV-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-400-INV-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QGOP-800-INV-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-800-INV-HL-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QG-OP-MIC-RMS	OP microscope adapter RMS
QG-OP-OBJ-RMS	OP objective adapter M32 x 0.75 to RMS
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP-400 objective

Motorized focus

The PS3H122R plus H807 combination is required to drive the fine focus knob of the microscope. The coarse focus will not be motorized. The H122KBIX direct coupling can be added for more precise motorized control.

Part	Description
PS3H122R	Generic focus drive and adapter with rotating cable system preventing cable twisting
H807	Evident/Olympus BX and IX focus sleeve
H122KBIX	Direct fine focus coupling for Evident/Olympus IX/BX microscopes

Autofocus

The PF850 is a standalone hardware autofocus. The PF203 kit is required for mounting. The PF200, PF209 and PF300 are required for setup and maintenance. The PF404 is required for use with piezo nanopositioning systems.

Part	Description
PF850	PF head, controller with digipot power supply, cables
PF850M	PF head - line mode, controller with digipot power supply, cables
PF203	IX71 PureFocus mounting kit
PF209	PureFocus setup sample slide
PF200	PureFocus setup camera alignment target type 1, RMS.DIA 0.8 x 36
PF300	PureFocus setup camera jig
PF404	Piezo cable for PF850 15D to BNC

Illumination

The L200IX and L200SIX are recommended for fluorescence microscopy (see **datasheet** for details). The L200SIX has a built in shutter mechanism which can be controlled via a ProScan III controller, so a standalone shutter is not required. The L220IX and L220SIX are available for customers doing fluorescence imaging in the far-red. The LDB103OL requires a ProScan III controller for operation and is recommended if purchasing a H31XYZEF/V31XYZEF controller.

Part	Description
L200SIX	L200 Standard box, lamp, light guide, shutter and Evident/Olympus IX Collimator
L200IX	L220 Standard box, lamp, light guide and Evident/Olympus IX Collimator
L220SIX	L220 Standard box, lamp, light guide, shutter and Evident/Olympus IX Collimator
L220IX	L220 Standard box, lamp, light guide and Evident/Olympus IX Collimator

Excitation path

Filter wheels are not supplied with filters. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed below. The HF235 adapter is required for filter wheels and shutters in the main episcopic illumination pathway. The H238 adapter is required for filter wheels and shutters in the transmitted light path.

Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF238	Shutter adapter for transmitted lamp
HF202HT	25 mm high temperature standalone shutter
HF204HT	35 mm high temperature standalone shutter
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand
HF108A	Filter wheel, 8 position, 32 mm diameter filters without stand
HF108	Filter wheel, 8 position, 32 mm diameter filters with stand
HF110A + HF200HT	10 position 25 mm diameter filter wheel plus shutter combination
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

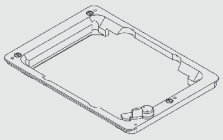
Emission path

The HF236 adapter is required for fitting shutter and filter wheels to the emission port of the microscope.

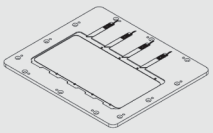
Part	Description
HF236	Filter wheel adapter for Evident/Olympus IX series microscopes
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand

Evident/Olympus IX81 configuration chart

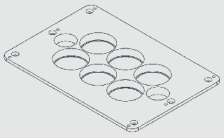
6 Sample holders



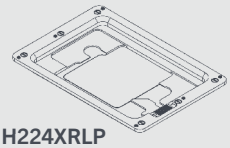
H223XR
Extra recessed holder for micro titer plates (85x128mm)



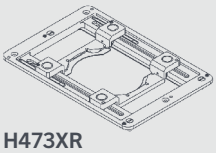
H234XR
Four slide holder, extra recessed



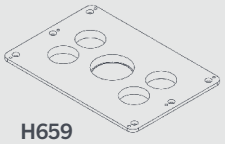
H658
Holder for six mounted metallurgical specimens



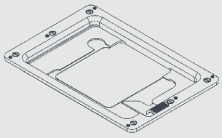
H224XRLP
Low profile 3 in x 1 in slide holder



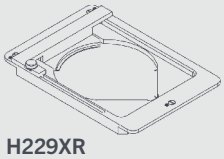
H473XR
Universal sample holder



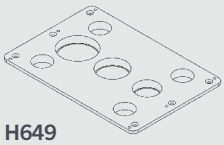
H659
Holder for one mounted metallurgical specimen



H237XRLP
Low profile 3 in x 2 in slide holder

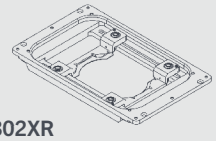


H229XR
Universal Petri dish holder

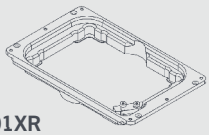


H649
Holder for a single mounted metallurgical specimen

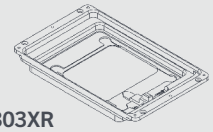
9 Nanopositioning sample holders



QGSP302XR
SP universal sample holder XR

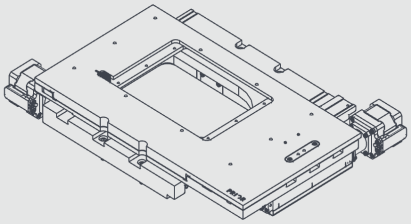


QGSP301XR
SP multiwell holder XR



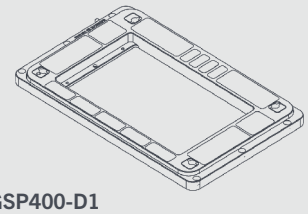
QGSP303XR
Single slide holder

1 Stages



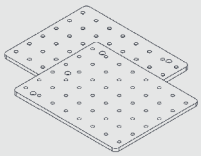
H117P1I4, H117E1I4
ProScan inverted stage

9 Nanopositioning stages

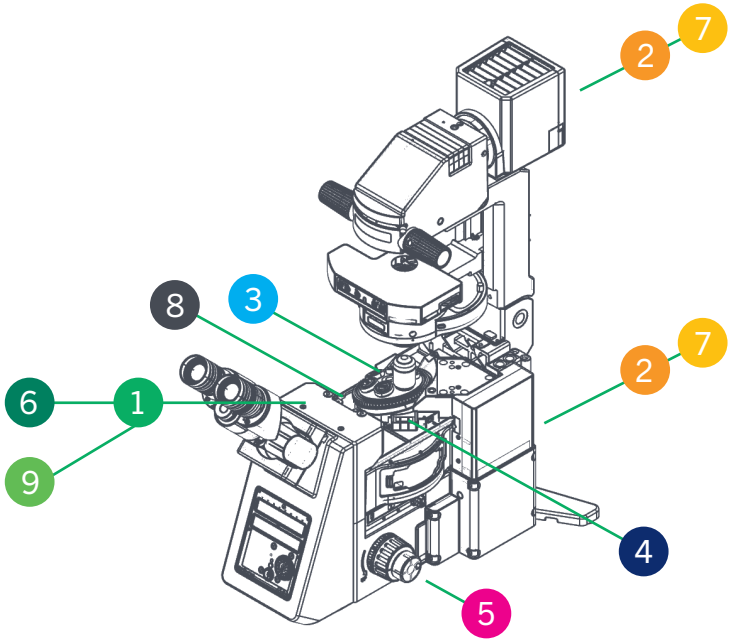


QGSP400-D1
QGSP600-D1
QGSP800-D1

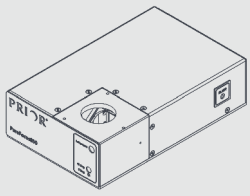
6 Stage accessories



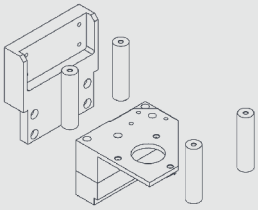
H117ACCM
Pair of stage extension wings



4 Autofocus

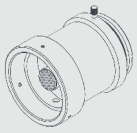


PF850
PF head, controller with digipot power supply, cables



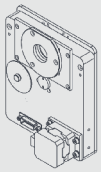
PF213
PureFocus mounting kits

5 Motorized focus

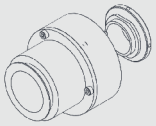


PS3H122OLM
Generic focus drive and adapter

8 Emission path

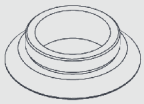


HF106A, HF108, HF108A, HF110, HF110A

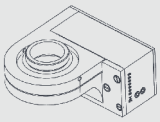


HF236
Filter wheel adapter

3 Piezo objective positioner



QG-OP-MIC-RMS
Microscope adapter

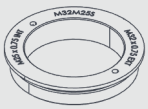


QGOP-400-INV-D1
OP400 objective scanner system (0–500 g load)

QGOP-400-INV-HL-D1
OP400 objective scanner system (500–1000 g load)

QGOP-800-INV-D1
OP800 objective scanner system (0–500 g load)

QGOP-800-INV-HL-D1
OP800 objective scanner system (500–1000 g load)



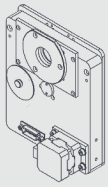
QG-OP-OBJ-RMS
Objective adapter

7 Illumination

L200SIX, L220SIX
Fluorescence illuminator, built in shutter

L200IX, L220IX
Fluorescence illuminator

2 Excitation path



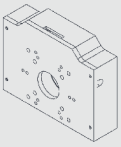
HF110
Filter wheel, 10 position, 25 mm diameter filters with stand

HF110A
Filter wheel, 10 position, 25 mm diameter filters, no stand

HF106A
Filter wheel, 6 position, 25 mm diameter filters

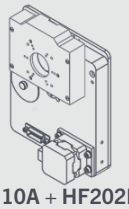
HF108
Filter wheel, 8 position, 32 mm diameter filters with stand

HF108A
Filter wheel, 8 position, 32 mm diameter filters, no stand



HF202HT
25mm high temperature standalone shutter

HF204HT
35mm high temperature standalone shutter



HF110A + HF202HT
10 position 25 mm diameter filter wheel plus shutter combination

HF108A + HF201HT
8 position 32 mm diameter filter wheel plus shutter combination

HF235
Filter wheel adapter

HF238
Shutter adapter for transmitted lamp

See the following pages for more product information.

Evident/Olympus IX81 configuration guide

Motorized XY stages and sample holders

All the sample holders listed are compatible with the H117P1I4 and H117E1I4. The frame size means the HLD117IX is not compatible with this microscope. At least one sample holder is required for each stage. The H117ACCM breadboard attachments can be added to all to provide mounting points for probe stations.

Part	Description
H117P1I4	ProScan inverted stage, part encoded, 1 mm pitch, 400 step, Evident/Olympus IX
H117E1I4	ProScan inverted stage, encoded, 1 mm pitch, 400 step, Evident/Olympus IX
H473XR	Universal sample holder (slides, Petri dishes, small flasks), extra recessed
H223XR	Extra recessed holder for micro titer plates (85x128mm) with diagonal corner sections removed
H224XRLP	Low profile 3 in x 1 in slide holder, extra recessed
H229XR	Universal Petri dish holder, extra recessed
H234XR	Four 3 in x 1 in slide holder, extra recessed
H23X200	200ml flask holder (Greiner)
H237XRLP	Low profile 3 in x 2 in slide holder, extra recessed
H229D35XR-6	Holder for 6 x 35mm Petri dishes
H649	Holder for a single 1 in, 1.25 in and 1.5 in mounted metallurgical specimen
H657	Holder for one mounted metallurgical specimen, 2 in diameter
H658	Holder for six mounted metallurgical specimens, 1.25 in diameter
H659	Holder for one mounted metallurgical specimen, 1.5 in diameter with 1, 2, 4 or 8 chambers

Stage accessories

Part	Description
H117ACCM	Pair of stage extension wings for H117 stages, breadboard format with 6 mm tapped holes for mounting micromanipulators or other accessories

Nanopositioning stages and sample holders

Nanopositioning stages require a suitable motorized stage for mounting. All Prior motorized stages listed in this guide are compatible. Please contact Prior Scientific if the microscope has another brand of motorized stage. Note that a sample holder from the nanopositioning stage section is required for use, and replaces the sample holder fitted to the motorized stage. Control of the nanopositioning stage via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGSP400-D1	System SP400, 400 µm travel, and NPC-D-6110 controller
QGSP600-D1	System SP600, 600 µm travel, and NPC-D-6110 controller
QGSP800-D1	System SP800, 800 µm travel, and NPC-D-6110 controller
QGSP301XR	SP multiwell holder XR
QGSP302XR	SP universal sample holder XR
QGSP303XR	SP single slide holder suitable for 1 in x 3 in and 2 in x 3 in slides

Objective positioners and adapters

When ordering ensure the correct part number is used to specify inverted calibration. Objective positioners require a threaded adapter in order to be fitted to the microscope nosepiece and the microscope objective. Evident/Olympus microscopes typically use RMS threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some IX81 nosepieces have a raised lip surrounding the objective positions, which may clash with the objective positioner; a 15mm spacer can be added to clear the lip. Please note that the two objective positions adjacent to the objective positioner will not be usable due to space constraints; additional positions may be unusable on smaller nosepieces. A high load calibration is available for specialist heavy objectives. Control of the nanopositioning stage via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGOP-400-INV-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-400-INV-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QGOP-800-INV-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-800-INV-HL-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QG-OP-MIC-RMS	OP microscope adapter RMS
QG-OP-OBJ-RMS	OP objective adapter M32 x 0.75 to RMS
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP-400 objective

Motorized focus

The PS3H122OLM enables the motorized focus control to be handled via a Prior controller, for example when using a PF850 autofocus.

Part	Description
PS3H122OLM	Generic focus drive and adapter

Autofocus

The PF850 is a standalone hardware autofocus. The PF203 kit is required for mounting. The PF200, PF209 and PF300 are required for setup and maintenance. The PF404 is required for use with piezo nanopositioning systems.

Part	Description
PF850	PF head, controller with digipot power supply, cables
PF850M	PF head - line mode, controller with digipot power supply, cables
PF213	IX81 PureFocus mounting kit
PF209	PureFocus setup sample slide
PF200	PureFocus setup camera alignment target type 1, RMS.DIA 0.8 x 36
PF300	PureFocus setup camera jig
PF404	Piezo cable for PF850 15D to BNC

Illumination

The L200IX and L200SIX are recommended for fluorescence microscopy (see **datasheet** for details). The L200SIX has a built in shutter mechanism which can be controlled via a ProScan III controller, so a standalone shutter is not required. The L220IX and L220SIX are available for customers doing fluorescence imaging in the far-red. The LDB103OL requires a ProScan III controller for operation and is recommended if purchasing a H31XYZEF/V31XYZEF controller. 35 mm shutters and filter wheels are recommended for widefield applications.

Part	Description
L200SIX	L200 Standard box, lamp, light guide, shutter and Evident/Olympus IX Collimator
L200IX	L220 Standard box, lamp, light guide and Evident/Olympus IX Collimator
L220SIX	L220 Standard box, lamp, light guide, shutter and Evident/Olympus IX Collimator
L220IX	L220 Standard box, lamp, light guide and Evident/Olympus IX Collimator

Excitation path

Filter wheels are not supplied with filters. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed below. The HF235 adapter is required for filter wheels and shutters in the main episcopic illumination pathway. The H238 adapter is required for filter wheels and shutters in the transmitted light path.

Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF238	Shutter adapter for transmitted lamp
HF202HT	25 mm high temperature standalone shutter
HF204HT	35 mm high temperature standalone shutter
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand
HF108A	Filter wheel, 8 position, 32 mm diameter filters without stand
HF108	Filter wheel, 8 position, 32 mm diameter filters with stand
HF110A + HF200HT	10 position 25 mm diameter filter wheel plus shutter combination
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

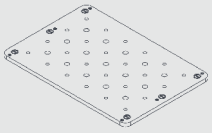
Emission path

The HF236 adapter is required for fitting shutter and filter wheels to the emission port of the microscope.

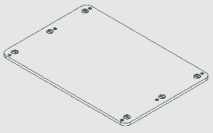
Part	Description
HF236	Filter wheel adapter for Evident/Olympus IX series microscopes
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand

Evident/Olympus BX41/BX51/ BX43/BX53 configuration chart

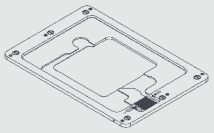
6 Sample holders



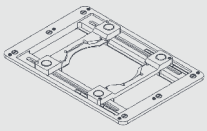
H230B
Breadboard insert plate



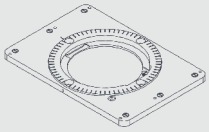
H230
Solid stage plate



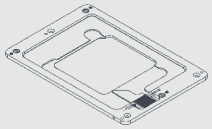
H224LP
Low profile 3 in x 1 in slide holder



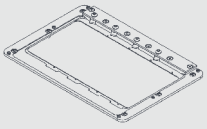
H473UP
Universal sample holder



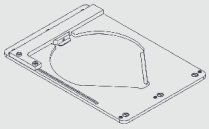
H224ROT
3 in x 1 in manual rotating slide holder



H237LP
Low profile 3 in x 1 in slide holder

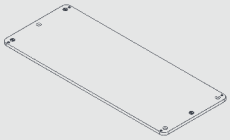


H234LP
Low profile, four 3 in x 1 in slide holder

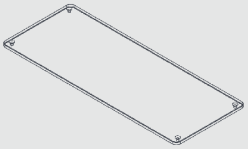


H229UP
Universal Petri dish holder

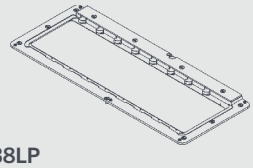
6 Sample holders



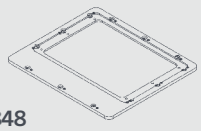
H239
Solid stage plate



H288
Glass stage plate

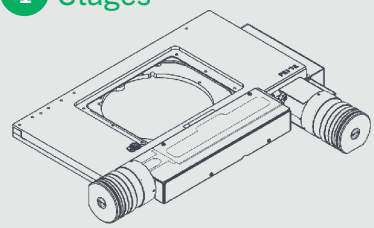


H238LP
Low profile eight 3 in x 1 in slide holder



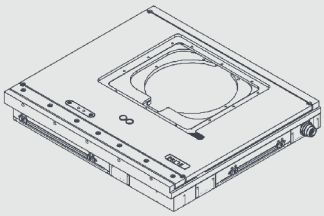
H3848
Low profile slide holder adapter kit

1 Stages



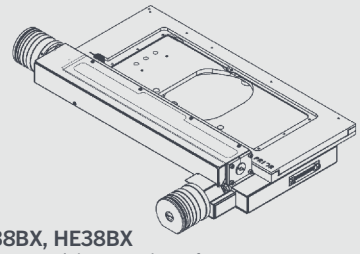
H101BX, HE01BX, H1P4BX, HEP4BX
ProScan upright stage

1 Stages



H101P2BX, H101E2BX, H101P1BX, H101E1BX
ProScan upright stage, flat top

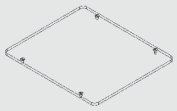
1 Stages



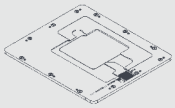
H138BX, HE38BX
ProScan upright stage, large format

6 Stage accessories

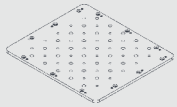
H230F
Solid stage plate



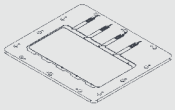
H220F
Glass stage plate



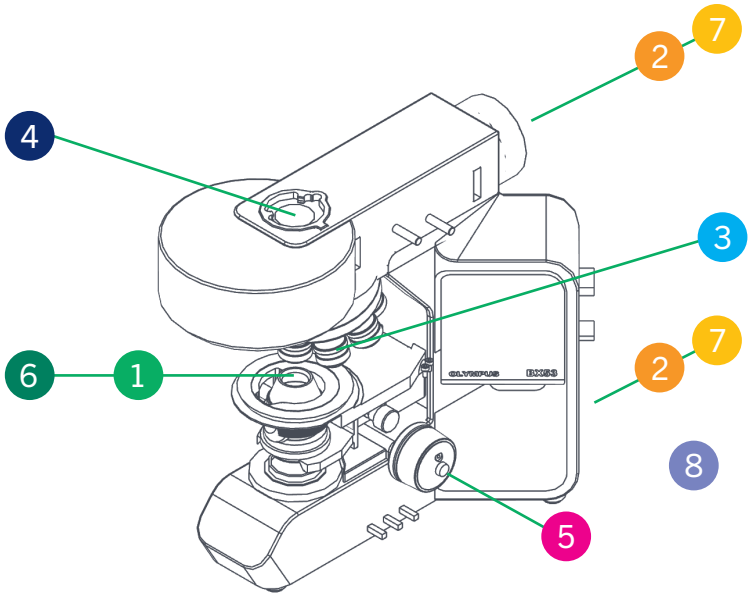
H224F
Low profile 3 in x 1 in slide holder



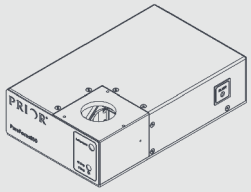
H230FB
Breadboard stage insert assembly



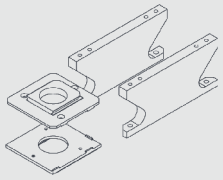
H234F
Four 3 in x 1 in slide holder



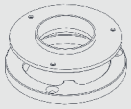
4 Autofocus



PF850
PF head, controller with digipot power supply, cables

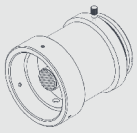


PF210
Evident/Olympus BX fluorescence mounting kit



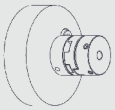
LF335
PF850 flange set

5 Motorized focus



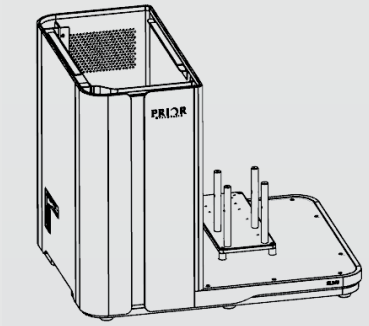
PS3H122R
Generic focus drive and adapter

H807
Focus sleeve



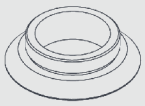
H122KBIX
Direct fine focus coupling

8 Robotic slide loader

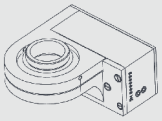


SL160
SL160 with 2mm XY stage

3 Objective positioner



QG-OP-MIC-RMS
Microscope adapter

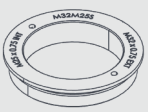


QGOP-400-UP-D1
OP400 objective scanner system (0–500 g load)

QGOP-400-UP-HL-D1
OP400 objective scanner system (500–1000 g load)

QGOP-800-UP-D1
OP800 objective scanner system (0–500 g load)

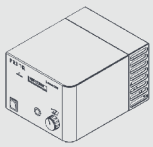
QGOP-800-UP-HL-D1
OP800 objective scanner system (500–1000 g load)



QG-OP-OBJ-RMS
Objective adapter

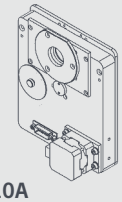
7 Illumination

L200SOL, L220SOL
Fluorescence illuminator, built in shutter



L200OL, L220OL
Fluorescence illuminator

2 Excitation path



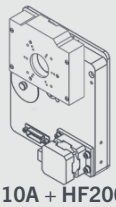
HF110A
Filter wheel, 10 position, 25 mm diameter filters

HF110
Filter wheel, 10 position, 25 mm diameter filters with stand

HF106A
Filter wheel, 6 position, 25 mm diameter filters

HF108A
Filter wheel, 8 position, 32 mm diameter filters

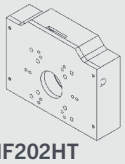
HF108
Filter wheel, 8 position, 32 mm diameter filters with stand



HF110A + HF200HT
10 position 25 mm diameter filter wheel plus shutter combination

HF108A + HF201HT
8 position 32 mm diameter filter wheel plus shutter combination

HF235
Filter wheel adapter



HF202HT
25mm high temperature standalone shutter

HF204HT
35mm high temperature standalone shutter

See the following pages for more product information.

Evident/Olympus BX41/BX51/ BX43/ BX53 configuration guide

The Evident/Olympus BX41/BX51/BX43/BX53 are manual microscopes. Prior offers an extensive range of upgrades for these microscopes.

Stages and sample holders

All the sample holders listed in the first section of the above table are compatible with the H101BX, HE01BX, H1P4BX, and HEP4BX. All the sample holders listed in the second section are compatible with the flat top H101P2BX, H101E2BX, H101P1BX and H101E1BX. In addition, sample holders from the first section are compatible with the flat top stage range when combined with the H3848. The large format H138BX and HE38BX can support up to 8 slides. It is advised to purchase the H238LP rather than the H238PLP unless the microscope is fitted with an immersion condenser.

Motorized XY stages and sample holders

Part	Description
H101BX	ProScan upright stage, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX
HE01BX	ProScan upright stage, encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H1P4BX	ProScan upright stage, part encoded, 1 mm pitch, 400 step, Evident/Olympus BX
HEP4BX	ProScan upright stage, encoded, 1 mm pitch, 400 step, Evident/Olympus BX
H473UP	Universal sample holder (slides, Petri dishes, small flasks), upright
H224LP	Low profile 3 in x 1 in slide holder
H234LP	Low profile, four 3 in x 1 in slide holder
H237LP	Low profile 3 in x 2 in slide holder
H229UP	Universal Petri dish holder, upright stages, up to 90 mm diameter
H230	Solid stage plate, H101A stages
H224ROT	3 in x 1 in manual rotating slide holder
H230B	Breadboard insert plate M4 & M6 (H101)
H220	H101 glass stage plate assembly

Flat top XY motorized stages and sample holders

Part	Description
H101P2BX	ProScan upright stage, flat top, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H101E2BX	ProScan upright stage, flat top, encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H101P1BX	ProScan upright stage, flat top, 1 mm pitch, 200 step, Evident/Olympus BX
H101E1BX	ProScan upright stage, flat top, encoded, 1 mm pitch, 200 step, Evident/Olympus BX
H3848	Low profile slide holder adapter kit for H101F
H230F	Solid stage plate, H101F Stages
H224F	Low profile 3 in x 1 in slide holder, extended, H101F stages
H234F	Four 3 in x 1 in slide holder, H101F stages
H220F	Glass stage plate, H101F stages
H230FB	Breadboard stage insert assembly (H101F)

Large format XY motorized stages and sample holders

Part	Description
H138BX	ProScan upright stage, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX, for up to 8 slides
HE38BX	ProScan upright stage, encoded, 2 mm pitch, 200 step, Evident/Olympus BX, for up to 8 slides
H238LP	Low profile eight 3 in x 1 in slide holder
H238PLP	Low profile eight 3 in x 1 in slide holder, part recessed
H239	Solid stage plate, H138 stages
H288	Glass stage plate, H138 stages

Objective positioners and adapters

When ordering ensure the correct part number is used to specify upright calibration. Objective positioners require a threaded adapter in order to be fitted to the microscope nosepiece and the microscope objective. Evident/Olympus microscopes typically use RMS threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some BX51/BX53 nosepieces have a raised lip surrounding the objective positions, which may clash with the objective positioner; a 15mm spacer can be added to clear the lip. Please note that the two objective positions adjacent to the objective positioner will not be usable due to space constraints; additional positions may be unusable on smaller nosepieces. A high load calibration is available for specialist heavy objectives. Control of the via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGOP-400-UP-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-400-UP-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QGOP-800-UP-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-800-UP-HL-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QG-OP-MIC-RMS	OP microscope adapter RMS
QG-OP-OBJ-RMS	OP objective adapter M32 x 0.75 to RMS
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP-400 objective
QG-OP-MIC-W26	Microscope adapter W26 (M26 x 1/36”)
QG-OP-OBJ-W26	Objective adapter W26 (M26 x 1/36”)

Motorized focus

The PS3H122R plus H807 combination is required to drive the fine focus knob of the microscope. The coarse focus will not be motorized. The H122KBIX direct coupling can be added for more precise motorized control.

Part	Description
PS3H122R	Generic focus drive and adapter with rotating cable system preventing cable twisting
H807	Evident/Olympus BX and IX focus sleeve
H122KBIX	Direct fine focus coupling for Evident/Olympus IX/BX microscopes

Autofocus

The PF850 is a standalone hardware autofocus. The LF335 flange set is recommended for systems using only transmitted light or non-fluorescence reflected light. The PF210 kit is required for systems using fluorescence where the filter cubes will block 850nm wavelength light. The PF200, PF209 and PF300 are required for setup and maintenance. The PF404 is required for use with piezo nanopositioning systems.

Part	Description
PF850	PF head, controller with digipot power supply, cables
PF850M	PF head - line mode, controller with digipot power supply, cables
PF210	Evident/Olympus BX fluorescence mounting kit
LF335	F850 flange set (Evident/Olympus BX)
PF209	PureFocus setup sample slide
PF200	PureFocus setup camera alignment target type 1, RMS.DIA 0.8 x 36
PF300	PureFocus setup camera jig
PF404	Piezo cable for PF850 15D to BNC

Illumination

The L200OL and L200SOL are recommended for fluorescence microscopy (see **datasheet** for details).The L200SOL has a built in shutter mechanism which can be controlled via a ProScan III controller, so a standalone shutter is not required. The L220OL and L220SOL are available for customers doing fluorescence imaging in the far-red. 35mm shutters and 32mm filter wheels are recommended for widefield applications. Note that no Prior option is available for diascopic illumination.

Part	Description
L200SOL	L200 Standard box, lamp, light guide, shutter and Evident/Olympus collimator
L200OL	L220 Standard box, lamp, light guide and Evident/Olympus collimator
L220SOL	L220 Standard box, lamp, light guide, shutter and Evident/Olympus collimator
L220OL	L220 Standard box, lamp, light guide and Evident/Olympus collimator

Excitation path

Filter wheels are not supplied with filters. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed above. The HF235 adapter is required for filter wheels and shutters in the episcopic illumination pathways. Please note that the HF238 is not compatible with BX41, BX43 or BX53M microscopes.

Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF238	Shutter adapter for transmitted lamp (not compatible with BX41/43)
HF202HT	25 mm high temperature standalone shutter
HF204HT	35 mm high temperature standalone shutter
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand
HF108A	Filter wheel, 8 position, 32 mm diameter filters without stand
HF108	Filter wheel, 8 position, 32 mm diameter filters with stand
HF110A + HF200HT	10 position 25 mm diameter filter wheel plus shutter combination
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

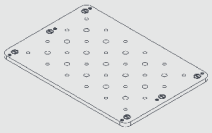
Robotic slide loader

Please contact Prior Scientific to discuss integration of BX43 and BX53 microscopes with the SL160 slide loader. The SL160 is a development platform for high throughput microscopy and is not integrated with Evident/Olympus software.

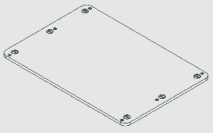
Part	Description
SL160	Slide loader, 160 slide capacity, for BX microscopes - Contact us for information

Evident/Olympus BX61 configuration chart

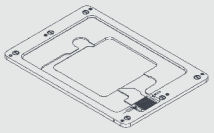
5 Sample holders



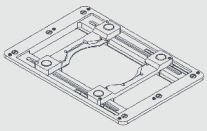
H230B
Breadboard insert plate



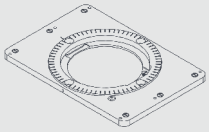
H230
Solid stage plate



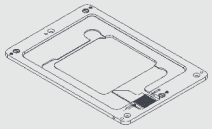
H224LP
Low profile 3 in x 1 in slide holder



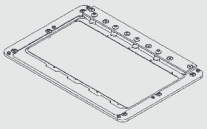
H473UP
Universal sample holder



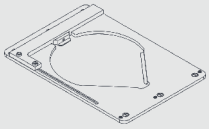
H224ROT
3 in x 1 in manual rotating slide holder



H237LP
Low profile 3 in x 1 in slide holder

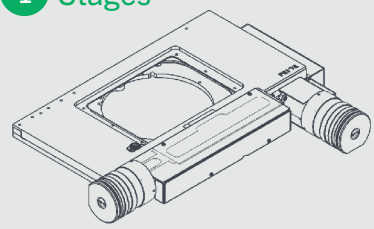


H234LP
Low profile, four 3 in x 1 in slide holder



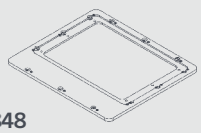
H229UP
Universal Petri dish holder

1 Stages



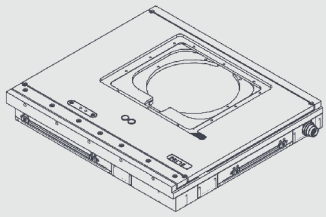
H101BX, HE01BX, H1P4BX, HEP4BX
ProScan upright stage

5 Sample holders



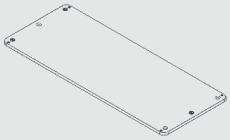
H3848
Low profile slide holder adapter kit

1 Stages

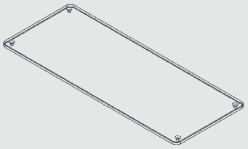


H101P2BX, H101E2BX, H101P1BX, H101E1BX
ProScan upright stage, flat top

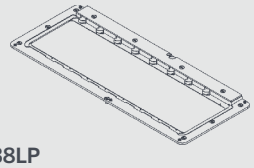
5 Sample holders



H239
Solid stage plate

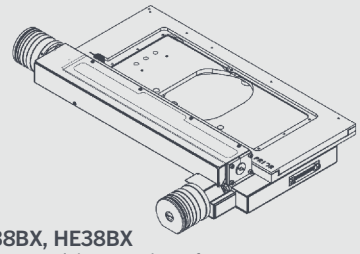


H288
Glass stage plate



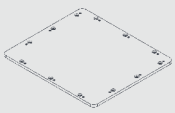
H238LP
Low profile eight 3 in x 1 in slide holder

1 Stages



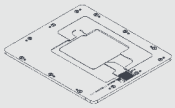
H138BX, HE38BX
ProScan upright stage, large format

5 Sample holders

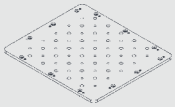


H230F
Pair of stage extension wings

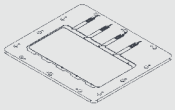
H220F
Pair of stage extension wings



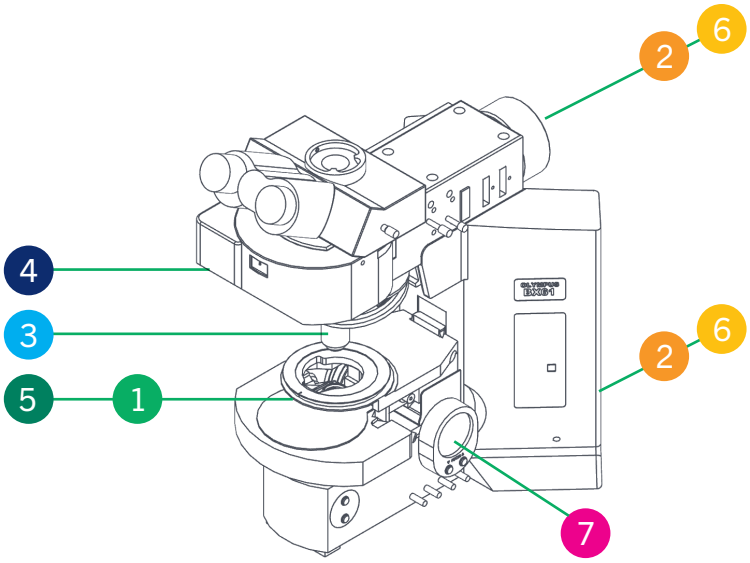
H224F
Pair of stage extension wings



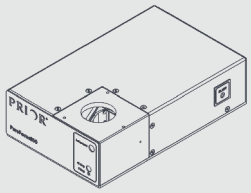
H230FB
Pair of stage extension wings



H234F
Pair of stage extension wings

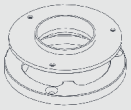


4 Autofocus



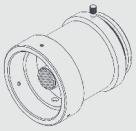
PF850
PF head, controller with digipot power supply, cables

PF850M
PF head - line mode, controller with digipot power supply, cables



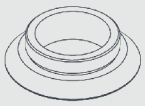
LF335
PF850 flange set

7 Motorized focus

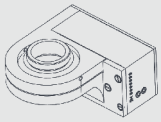


PS3H122OLM
Generic focus drive and adapter

3 Objective positioner



QG-OP-MIC-RMS
Microscope adapter

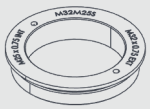


QGOP-400-UP-D1
OP400 objective scanner system (0–500 g load)

QGOP-400-UP-HL-D1
OP400 objective scanner system (500–1000 g load)

QGOP-800-UP-D1
OP800 objective scanner system (0–500 g load)

QGOP-800-UP-HL-D1
OP800 objective scanner system (500–1000 g load)



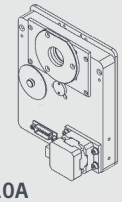
QG-OP-OBJ-RMS
Objective adapter

6 Illumination

L200SOL, L220SOL
Fluorescence illuminator, built in shutter

L200OL, L220OL
Fluorescence illuminator

2 Excitation path



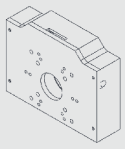
HF110A
Filter wheel, 10 position, 25 mm diameter filters

HF110
Filter wheel, 10 position, 25 mm diameter filters with stand

HF106A
Filter wheel, 6 position, 25 mm diameter filters

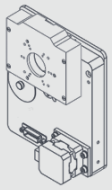
HF108A
Filter wheel, 8 position, 32 mm diameter filters

HF108
Filter wheel, 8 position, 32 mm diameter filters with stand



HF202HT
25mm high temperature standalone shutter

HF204HT
35mm high temperature standalone shutter



HF110A + HF200HT
10 position 25 mm diameter filter wheel plus shutter combination

HF108A + HF201HT
8 position 32 mm diameter filter wheel plus shutter combination

HF235
Filter wheel adapter

See the following pages for more product information.

Evident/Olympus BX61 configuration guide

The Evident/Olympus BX61 is a motorized microscope. Prior offers an extensive range of upgrades for this microscope.

Stages and sample holders

All the sample holders listed in the first section of the above table are compatible with the H101BX, HE01BX, H1P4BX, and HEP4BX. All the sample holders listed in the second section are compatible with the flat top H101P2BX, H101E2BX, H101P1BX and H101E1BX. In addition, sample holders from the first section are compatible with the flat top stage range when combined with the H3848. The large format H138BX and HE38BX can support up to 8 slides.

Motorized XY stages and sample holders

Part	Description
H101BX	ProScan upright stage, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX
HE01BX	ProScan upright stage, encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H1P4BX	ProScan upright stage, part encoded, 1 mm pitch, 400 step, Evident/Olympus BX
HEP4BX	ProScan upright stage, encoded, 1 mm pitch, 400 step, Evident/Olympus BX
H473UP	Universal Sample holder (slides, Petri dishes, small flasks), upright
H224LP	Low profile 3 in x 1 in slide holder
H234LP	Low profile, four 3 in x 1 in slide holder
H237LP	Low profile 3 in x 2 in slide holder
H229UP	Universal Petri dish holder, upright stages, up to 90 mm diameter
H230	Solid stage plate, H101A stages
H224ROT	3 in x 1 in manual rotating slide holder
H230B	Breadboard insert plate M4 & M6 (H101)
H220	H101 Glass stage plate assembly

Flat top XY motorized stages and sample holders

Part	Description
H101P2BX	ProScan upright stage, flat top, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H101E2BX	ProScan upright stage, flat top, encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H101P1BX	ProScan upright stage, flat top, 1 mm pitch, 200 step, Evident/Olympus BX
H101E1BX	ProScan upright stage, flat top, encoded, 1 mm pitch, 200 step, Evident/Olympus BX
H3848	Low profile slide holder adapter kit for H101F
H230F	Solid stage plate, H101F Stages
H224F	Low profile 3 in x 1 in slide holder, extended, H101F stages
H234F	Four 3 in x 1 in slide holder, H101F stages
H220F	Glass stage plate, H101F stages
H230FB	Breadboard stage insert assembly (H101F)

Large format XY motorized stages and sample holders

Part	Description
H138BX	ProScan upright stage, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX, for up to 8 slides
HE38BX	ProScan upright stage, encoded, 2 mm pitch, 200 step, Evident/Olympus BX, for up to 8 slides
H238LP	Low profile eight 3 in x 1 in slide holder
H238PLP	Low profile eight 3 in x 1 in slide holder, part recessed
H239	Solid stage plate, H138 stages
H288	Glass stage plate, H138 stages

Objective positioners and adapters

When ordering ensure the correct part number is used to specify upright calibration. Objective positioners require a threaded adapter in order to be fitted to the microscope nosepiece and the microscope objective. Evident/Olympus microscopes typically use RMS threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some BX61 nosepieces have a raised lip surrounding the objective positions, which may clash with the objective positioner; a 15mm spacer can be added to clear the lip. Please note that the two objective positions adjacent to the objective positioner will not be usable due to space constraints; additional positions may be unusable on smaller nosepieces. A high load calibration is available for specialist heavy objectives. Control of the via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGOP-400-UP-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-400-UP-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QGOP-800-UP-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-800-UP-HL-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QG-OP-MIC-RMS	OP microscope adapter RMS
QG-OP-OBJ-RMS	OP objective adapter M32 x 0.75 to RMS
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP-400 objective

Motorized focus

The PS3H122OLM is directly coupled to the fine focus knob. It does not compete with the inherent motorized focus system.

Part	Description
PS3H122OLM	Focus drive assembly, PS3, Evident/Olympus BX61/IX81 PS3

Autofocus

The PF850 is a standalone hardware autofocus. The LF335 flange set is recommended for systems using only transmitted light or non-fluorescence reflected light. Please contact Prior Scientific to provide information about fluorescence filter sets if using fluorescence. The PF200, PF209 and PF300 are required for setup and maintenance. The PF404 is required for use with piezo nanopositioning systems.

Part	Description
PF850	PF head, controller with digipot power supply, cables
PF850M	PF head - line mode, controller with digipot power supply, cables
PF210	Evident/Olympus BX fluorescence mounting kit
LF335	PF850 flange set (Evident/Olympus BX)
PF209	PureFocus setup sample slide
PF200	PureFocus setup camera alignment target type 1, RMS.DIA 0.8 x 36
PF300	PureFocus setup camera jig
PF404	Piezo cable for PF850 15D to BNC

Illumination

The L200OL and L200SOL are recommended for fluorescence microscopy (see **datasheet** for details). The L200SOL has a built in shutter mechanism which can be controlled via a ProScan III controller, so a standalone shutter is not required. The L220OL and L220SOL are available for customers doing fluorescence imaging in the far-red.

Part	Description
L200SOL	L200 Standard box, lamp, light guide, shutter and Evident/Olympus collimator
L200OL	L220 Standard box, lamp, light guide and Evident/Olympus collimator
L220SOL	L220 Standard box, lamp, light guide, shutter and Evident/Olympus collimator
L220OL	L220 Standard box, lamp, light guide and Evident/Olympus collimator

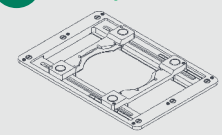
Excitation path

Filter wheels are not supplied with filters. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed above. The HF235 adapter is required for filter wheels and shutters in the episcopic and diascopic illumination pathways.

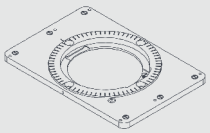
Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF238	Shutter adapter for transmitted lamp
HF202HT	25 mm high temperature standalone shutter
HF204HT	35 mm high temperature standalone shutter
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand
HF108A	Filter wheel, 8 position, 32 mm diameter filters without stand
HF108	8 position 32 mm diameter filter wheel plus shutter combination with stand
HF110A + HF200HT	10 position 25 mm diameter filter wheel plus shutter combination
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

Evident/Olympus BX63 configuration chart

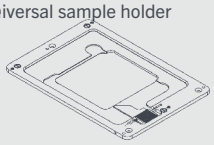
5 Sample holders



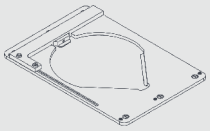
H473UP*
Universal sample holder



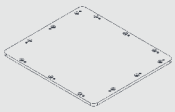
H224ROT*
3 in x 1 in manual rotating slide holder



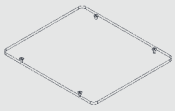
H237LP*
Low profile 3 in x 1 in slide holder



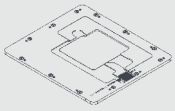
H229UP*
Universal Petri dish holder



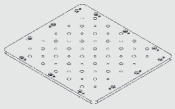
H230F
Solid stage plate



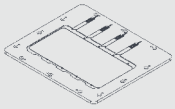
H220F
Glass stage plate



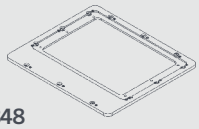
H224F
Low profile 3 in x 1 in slide holder



H230FB
Breadboard stage insert assembly



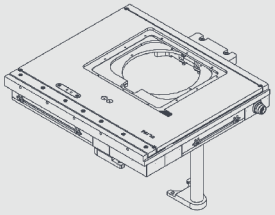
H234F
Four 3 in x 1 in slide holder



H3848
Low profile slide holder adapter kit

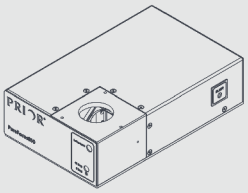
*Requires H3848 adapter plate

1 Stages



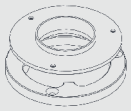
H101P2B3, H101E2B3, H101P1B3, H101E1B3
ProScan upright stage, flat top

4 Autofocus



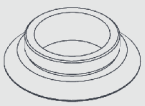
PF850
PF head, controller with digipot power supply, cables

PF850M
PF head - line mode, controller with digipot power supply, cables

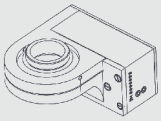


LF335
PF850 flange set

3 Objective positioner



QG-OP-MIC-RMS
Microscope adapter

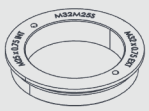


QGOP-400-UP-D1
OP400 objective scanner system (0–500 g load)

QGOP-400-UP-HL-D1
OP400 objective scanner system (500–1000 g load)

QGOP-800-UP-D1
OP800 objective scanner system (0–500 g load)

QGOP-800-UP-HL-D1
OP800 objective scanner system (500–1000 g load)



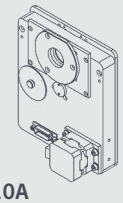
QG-OP-OBJ-RMS
Objective adapter

6 Illumination

L200SOL, L220SOL
Fluorescence illuminator,
built in shutter

L200OL, L220OL
Fluorescence illuminator

2 Excitation path



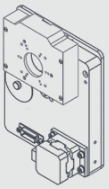
HF110A
Filter wheel, 10 position,
25 mm diameter filters

HF110
Filter wheel, 10 position,
25 mm diameter filters with stand

HF106A
Filter wheel, 6 position,
25 mm diameter filters

HF108A
Filter wheel, 8 position,
32 mm diameter filters

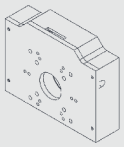
HF108
Filter wheel, 8 position,
32 mm diameter filters with stand



HF110A + HF200HT
10 position 25 mm diameter
filter wheel plus shutter
combination

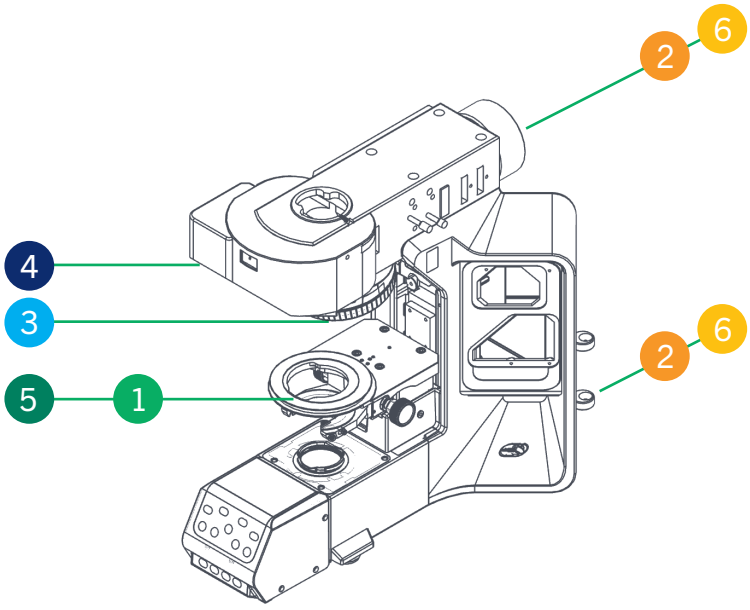
HF108A + HF201HT
8 position 32 mm diameter
filter wheel plus shutter
combination

HF235
Filter wheel adapter



HF202HT
25mm high temperature
standalone shutter

HF204HT
35mm high temperature
standalone shutter



See the following pages for more product information.

Evident/Olympus BX63 configuration guide

The Evident/Olympus BX63 is a fully motorized microscope. While this microscope is well equipped, Prior Scientific can offer cost effective, high performance upgrades.

Flat top XY motorized stages and sample holders

The BX63 lacks the typical dovetail stage attachment of other BX upright microscopes. The H101P2B3, H101E2B3, H101P1B3 and H101E1B3 are fitted with pillars that can be fitted to the microscope frame. The stages listed have superior travel range (114x75 mm) to the standard BX63 stage.

Part	Description
H101P2B3	ProScan upright stage, flat top, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H101E2B3	ProScan upright stage, flat top, encoded, 2mm pitch, 200 step, Evident/Olympus BX
H101P1B3	ProScan upright stage, flat top, 1mm pitch, 200 step, Evident/Olympus BX
H101E1B3	ProScan upright stage, flat top, encoded, 1mm pitch, 200 step, Evident/Olympus BX
H3848	Low profile slide holder adapter kit for H101F
H473UP*	Universal sample holder (slides, Petri dishes, small flasks), upright
H237LP*	Low profile 3 in x 2 in slide holder
H229UP*	Universal Petri dish holder, upright stages, up to 90 mm diameter
H224ROT*	3 in x 1 in manual rotating slide holder
H230F	Solid stage plate, H101F stages
H224F	Low profile 3 in x 1 in slide holder, extended, H101F stages
H234F	Four 3 in x 1 in slide holder, H101F stages
H220F	Glass stage plate, H101F stages
H230FB	Breadboard stage insert assembly (H101F)

***Requires the H3848 adapter for use.**

Objective positioners and adapters

When ordering ensure the correct part number is used to specify upright calibration. Objective positioners require a threaded adapter in order to be fitted to the microscope nosepiece and the microscope objective. Evident/Olympus microscopes typically use RMS threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some BX63 nosepieces have a raised lip surrounding the objective positions, which may clash with the objective positioner; a 15 mm spacer can be added to clear the lip. Please specify the nosepiece attachment fitted to the microscope when ordering. Please note that the two objective positions adjacent to the objective positioner will not be usable due to space constraints; additional positions may be unusable on smaller nosepieces. A high load calibration is available for specialist heavy objectives. Control of the via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGOP-400-UP-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-400-UP-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QG-OP-MIC-RMS	OP microscope adapter RMS
QG-OP-OBJ-RMS	OP objective adapter RMS
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP-400 objective

Autofocus

The PF850 is a standalone hardware autofocus. The LF335 flange set is recommended for systems using only transmitted light or non-fluorescence reflected light. The PF210 kit is required for systems using fluorescence where the filter cubes will block 850 nm wavelength light. The PF200, PF209 and PF300 are required for setup and maintenance. The PF404 is required for use with piezo nanopositioning systems. Please note that the PF850 can only be used with piezo focus devices when combined with the BX63.

Part	Description
PF850	PF head, controller with digipot power supply, cables
PF850M	PF head - line mode, controller with digipot power supply, cables
PF210	Evident/Olympus BX fluorescence mounting kit
LF335	PF850 flange set (Evident/Olympus BX)
PF209	PureFocus setup sample slide
PF200	PureFocus setup camera alignment target type 1, RMS.DIA 0.8 x 36
PF300	PureFocus setup camera jig
PF404	Piezo cable for PF850 15D to BNC

Illumination

The L200OL and L200SOL are recommended for fluorescence microscopy (see **datasheet** for details). The L200SOL has a built in shutter mechanism which can be controlled via a ProScan III controller, so a standalone shutter is not required. The L220OL and L220SOL are available for customers doing fluorescence imaging in the far-red. 35 mm shutters and 32 mm filter wheels are recommended for widefield applications.

Part	Description
L200SOL	L200 Standard box, lamp, light guide, shutter and Evident/Olympus collimator
L200OL	L220 Standard box, lamp, light guide and Evident/Olympus collimator
L220SOL	L220 Standard box, lamp, light guide, shutter and Evident/Olympus collimator
L220OL	L220 Standard box, lamp, light guide and Evident/Olympus collimator

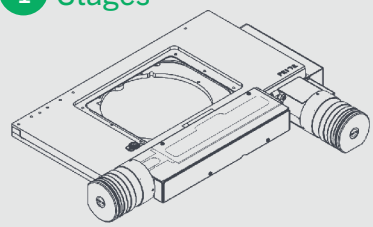
Excitation path

Filter wheels are not supplied with filters. Contact Prior Scientific if you wish to purchase a filter wheel stand that can be fixed to an optical table. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed above. The HF235 adapter is required for filter wheels and shutters in the episcopic and diascopic illumination pathways and requires part U-LH100ADP from Evident/Olympus.

Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX series microscopes. Requires U-LH100ADP from Evident/Olympus
HF238	Shutter adapter for transmitted lamp
HF202HT	25 mm high temperature standalone shutter
HF204HT	35 mm high temperature standalone shutter
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand
HF108A	Filter wheel, 8 position, 32 mm diameter filters without stand
HF108	Filter wheel, 8 position, 32 mm diameter filters with stand
HF110A + HF200HT	10 position 25 mm diameter filter wheel plus shutter combination
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

Evident/Olympus BX51WI/ BX61WI configuration chart

1 Stages

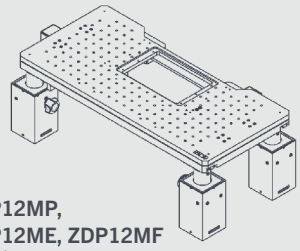


H101BXWI
ProScan upright stage

7 Nanopositioning sample holders

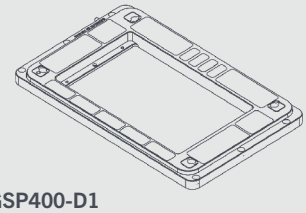
QGSPADAPT110X160
Adapter plate for H101 sample holders

1 Stages



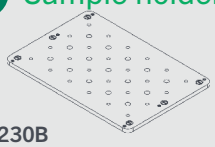
ZDP12MP, ZDP12ME, ZDP12MF
ZDeck stages

7 Nanopositioning stages

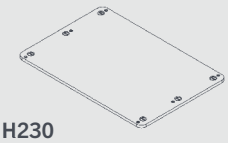


QGSP400-D1
QGSP600-D1
QGSP800-D1

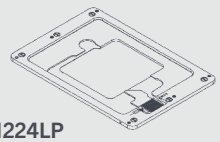
5 Sample holders



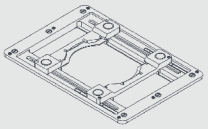
H230B
Breadboard insert plate



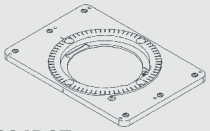
H230
Solid stage plate



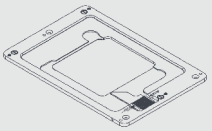
H224LP
Low profile 3 in x 1 in slide holder



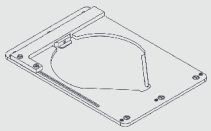
H473UP
Universal sample holder



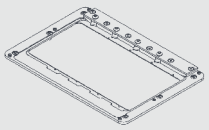
H224ROT
3 in x 1 in manual rotating slide holder



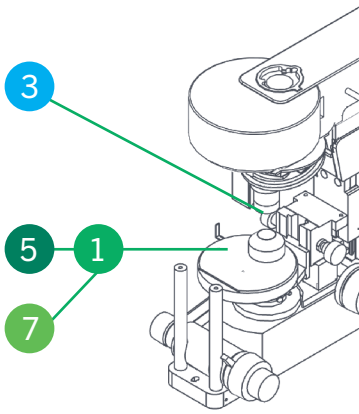
H237LP
Low profile 3 in x 1 in slide holder

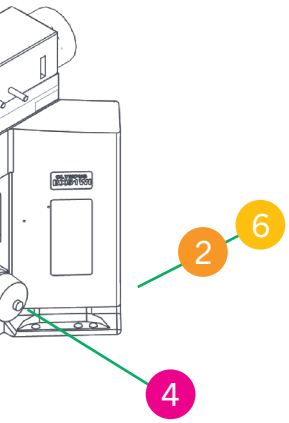


H229UP
Universal Petri dish holder

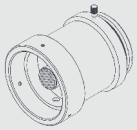


H234LP
Low profile, four 3 in x 1 in slide holder



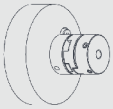


4 Motorized focus - BX51WI only



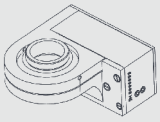
PS3H122R
Generic focus drive and adapter

H807
Focus sleeve



H122KBIX
Direct fine focus coupling

3 Objective positioner

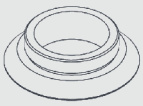


QGOP-400-UP-D1
OP400 objective scanner system (0–500 g load)

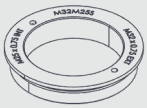
QGOP-400-UP-HL-D1
OP400 objective scanner system (500–1000 g load)

QGOP-800-UP-D1
OP800 objective scanner system (0–500 g load)

QGOP-800-UP-HL-D1
OP800 objective scanner system (500–1000 g load)



QG-OP-MIC-RMS
Microscope adapter



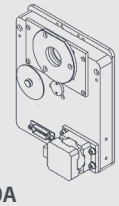
QG-OP-OBJ-RMS
Objective adapter

6 Illumination

L200SOL, L220SOL
Fluorescence illuminator, built in shutter

L200OL, L220OL
Fluorescence illuminator

2 Excitation path



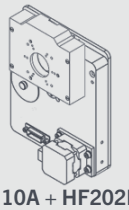
HF110A
Filter wheel, 10 position, 25 mm diameter filters

HF110
Filter wheel, 10 position, 25 mm diameter filters on stand

HF106A
Filter wheel, 6 position, 25 mm diameter filters

HF108A
Filter wheel, 8 position, 32 mm diameter filters

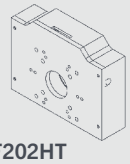
HF108
Filter wheel, 8 position, 32 mm diameter filters on stand



HF110A + HF202HT
10 position 25 mm diameter filter wheel plus shutter combination

HF108A + HF201HT
8 position 32 mm diameter filter wheel plus shutter combination

HF235
Filter wheel adapter



HF202HT
25mm high temperature standalone shutter

HF204HT
35mm high temperature standalone shutter

HF238
Shutter adapter for transmitted lamp

See the following pages for more product information.

Evident/Olympus BX51WI/ BX61WI configuration guide

The Evident/Olympus BX51WI/BX61WI is designed for electrophysiology. Prior can motorize many aspects of this microscope.

Stages and sample holders

At least one sample holder is required for use with each stage. The H101BXWI stage requires that the BX51WI or BX61WI microscope be fitted with the WI-STAD adapter, which is typically used with the U-SVL(R)B-4 stages. Please contact Prior Scientific if your microscope is fitted with the WI-FSH pillar mounts, which are typically used with the IX-SVL2 mechanical stage.

Motorized XY stage and sample holders

Part	Description
H101BXWI	ProScan upright stage for Evident/Olympus BX51WI/BX61WI
H473UP	Universal sample holder (slides, Petri dishes, small flasks), upright
H224LP	Low profile 3 in x 1 in slide holder
H234LP	Low profile, four 3 in x 1 in slide holder
H237LP	Low profile 3 in x 2 in slide holder
H229UP	Universal Petri dish holder, upright stages, up to 90 mm diameter
H230	Solid stage plate, H101A stages
H224ROT	3 in x 1 in manual rotating slide holder
H230B	Breadboard insert plate M4 & M6 (H101)
H220	H101 Glass stage plate assembly

ZDeck stages and sample holders

Part	Description
ZDP12MP	ZDeck, Evident/Olympus, 2 mm pitch, 200 step, motorized
ZDP12ME	ZDeck, Evident/Olympus, 2 mm pitch, 200 step, motorized, encoded
ZDP12MF	ZDeck, Evident/Olympus, fixed
H224LP	Low profile 3 in x 1 in slide holder
H234LP	Low profile, four 3 in x 1 in slide holder
H237LP	Low profile 3 in x 2 in slide holder
H229UP	Universal Petri dish holder, upright stages, up to 90 mm diameter
H230	Solid stage plate, H101A stages
H224ROT	3 in x 1 in manual rotating slide holder
H230B	Breadboard insert plate M4 & M6 (H101)
H220	H101 glass stage plate assembly

Nanopositioning stages and sample holders

Nanopositioning stages require a suitable motorized stage for mounting. All Prior motorized stages listed in this guide are compatible. Please contact Prior Scientific if the microscope has another brand of motorized stage. Note that a sample holder from the nanopositioning stage section is required for use, and replaces the sample holder fitted to the motorized stage. Please discuss the use of a nanopositioning stage with Prior Scientific when placing your order if using a rotary nosepiece.

Part	Description
QGSP400-D1	System SP400, 400 µm travel, and NPC-D-6110 controller
QGSP600-D1	System SP600, 600 µm travel, and NPC-D-6110 controller
QGSP800-D1	System SP800, 800 µm travel, and NPC-D-6110 controller
QGSPADAPT110X160	Adapter plate for H101 sample holders

Objective positioners and adapters

When ordering ensure the correct part number is used to specify upright calibration. Objective positioners require a threaded adapter in order to be fitted to the microscope nosepiece and the microscope objective. Evident/Olympus microscopes typically use RMS threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some BX51WI/BX61WI nosepieces have a raised lip surrounding the objective positions, which may clash with the objective positioner; a 15 mm spacer can be added to clear the lip. Please specify the nosepiece attachment fitted to the microscope when ordering. Please note that the two objective positions adjacent to the objective positioner will not be usable due to space constraints; additional positions may be unusable on smaller nosepieces. A high load calibration is available for specialist heavy objectives. Control of the via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGOP-400-UP-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-400-UP-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QGOP-800-UP-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-800-UP-HL-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QG-OP-MIC-RMS	OP microscope adapter RMS
QG-OP-OBJ-RM	OP objective adapter M32 x 0.75 to RMS
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP-400 objective

Motorized focus

The PS3H122R plus H807 combination is required to drive the fine focus knob of the microscope. The coarse focus will not be motorized. The H122KBIX direct coupling can be added for more precise motorized control. Please note that the PS3H122R is only compatible with the BX51WI.

Part	Description
PS3H122R	Generic focus drive and adapter with rotating cable system preventing cable twisting
H807	Evident/Olympus BX and IX focus sleeve
H122KBIX	Direct fine focus coupling for Evident/Olympus IX/BX microscopes

Autofocus

The PF850 is a standalone hardware autofocus. The LF335 flange set is recommended for systems using only transmitted light or non-fluorescence reflected light. The PF210 kit is required for systems using fluorescence where the filter cubes will block 850 nm wavelength light. The PF200, PF209 and PF300 are required for setup and maintenance. The PF404 is required for use with piezo nanopositioning systems.

Part	Description
PF850	PF head, controller with digipot power supply, cables
PF850M	PF head - line mode, controller with digipot power supply, cables
PF210	Evident/Olympus BX fluorescence mounting kit
LF335	PF850 flange set (Evident/Olympus BX)
PF209	PureFocus setup sample slide
PF200	PureFocus setup camera alignment target type 1, RMS.DIA 0.8 x 36
PF300	PureFocus setup camera jig
PF404	Piezo cable for PF850 15D to BNC

Illumination

The L200OL and L200SOL are recommended for fluorescence microscopy (see **datasheet** for details). The L200SOL has a built in shutter mechanism which can be controlled via a ProScan III controller, so a standalone shutter is not required. The L220OL and L220SOL are available for customers doing fluorescence imaging in the far-red.

Part	Description
L200SOL	L200 Standard box, lamp, light guide, shutter and Evident/Olympus collimator
L200OL	L220 Standard box, lamp, light guide and Evident/Olympus collimator
L220SOL	L220 Standard box, lamp, light guide, shutter and Evident/Olympus collimator
L220OL	L220 Standard box, lamp, light guide and Evident/Olympus collimator

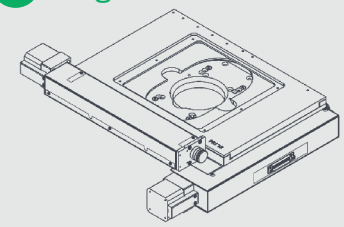
Excitation path

Filter wheels are not supplied with filters. Contact Prior Scientific if you wish to purchase a filter wheel stand that can be fixed to an optical table. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed above. The HF235 adapter is required for filter wheels and shutters in the episcopic and diascopic illumination pathways.

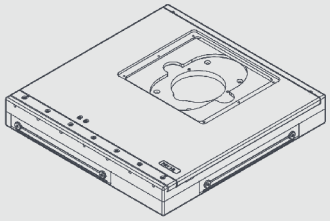
Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF238	Shutter adapter for transmitted lamp
HF202HT	25 mm high temperature standalone shutter
HF204HT	35 mm high temperature standalone shutter
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand
HF108A	8 position 32 mm diameter filter wheel plus shutter combination without stand
HF108	8 position 32 mm diameter filter wheel plus shutter combination with stand
HF110A + HF200HT	10 position 25 mm diameter filter wheel plus shutter combination
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

Evident/Olympus MX50/MX51 configuration chart

1 Stages

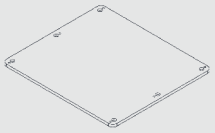


H105/2OL, HE05/2OL
ProScan stage

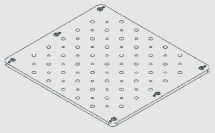


H105N2OL, H105E2OL
ProScan stage

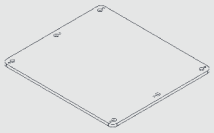
6 Sample holders



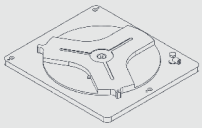
H227
Glass stage plate assembly



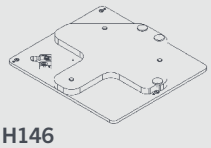
H231B
Breadboard stage insert assembly



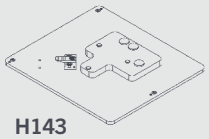
H231
Aluminum stage plate assembly



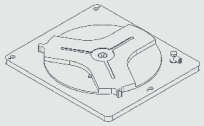
HWC15V
Wafer chuck rot + vac 150 mm



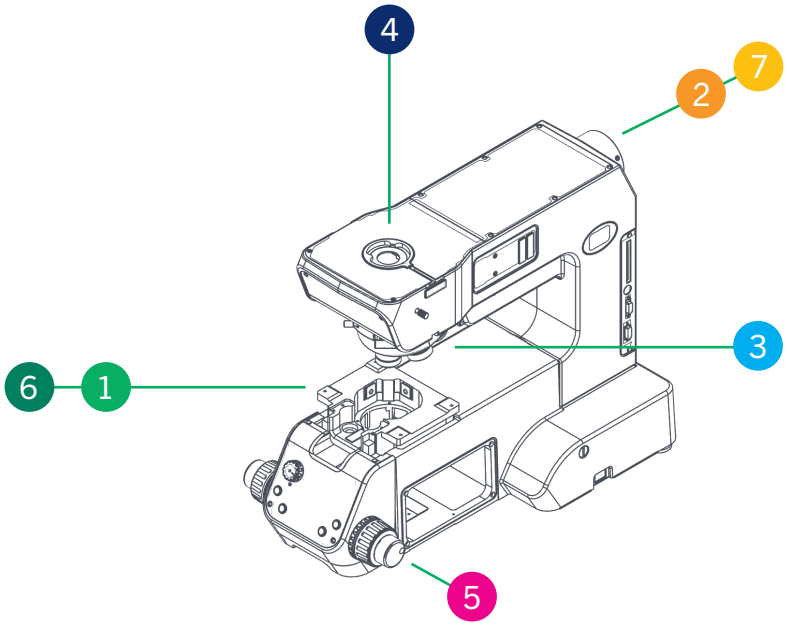
H146
Wafer chuck, 150 mm sprung



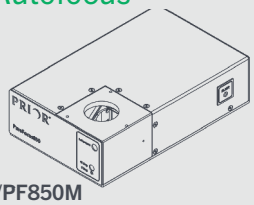
H143
Wafer chuck spring loaded 3 in



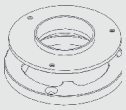
HWC15S
Wafer chuck (4 in & 6 in wafers)



4 Autofocus



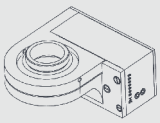
PF850 /PF850M
PF head, controller with digipot power supply, cables



LF335
PF850 flange set

3 Objective positioner

QG-OP-MIC-RMS
Microscope adapter

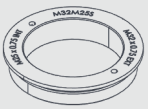


QGOP-400-UP-D1
OP400 objective scanner system (0–500 g load)

QGOP-400-UP-HL-D1
OP400 objective scanner system (500–1000 g load)

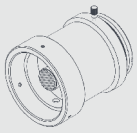
QGOP-800-UP-D1
OP800 objective scanner system (0–500 g load)

QGOP-800-UP-HL-D1
OP800 objective scanner system (500–1000 g load)



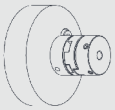
QG-OP-OBJ-RMS
Objective adapter

5 Motorized focus



PS3H122R
Generic focus drive and adapter

H807
Focus sleeve



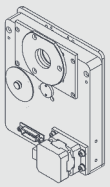
H122KBIX
Direct fine focus coupling

7

L200SOL, L220SOL
Fluorescence illuminator, built in shutter

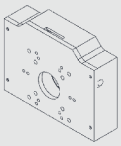
L200OL, L220OL
Fluorescence illuminator

2 Excitation path



HF108A
Filter wheel, 8 position, 32 mm diameter filters

HF235
Filter wheel adapter



HF204HT
35mm high temperature standalone shutter

See the following pages for more product information.

Evident/Olympus MX50/MX51 configuration guide

The Evident/Olympus MX50 and MX51 are microscopes designed for semiconductor analysis.

Stages and sample holders

The H105/2OL, HE05/2OL, H105N2OL and H105E2OL are the largest stages available for this microscope due to its throat distance. The H105N2OL and H105E2OL feature a flat top design for easy loading. All sample holders listed are compatible with all types of stage. The HWC15V is fitted with a vacuum nozzle but no vacuum pump system is supplied.

Motorized XY stages and sample holders for up to 6 inch diameter wafers

Part	Description
H105/2OL	ProScan stage, 154x154 mm travel, part encoded, 2 mm pitch, 200 step, Evident/Olympus
HE05/2OL	ProScan stage, 154x154 mm travel, encoded, 2 mm pitch, 200 step, Evident/Olympus
H105N2OL	ProScan stage, 154x154 mm travel, non-encoded, 2 mm pitch, 200 step, Evident/Olympus
H105E2OL	ProScan stage, 154x154 mm travel, encoded, 2 mm pitch, 200 step, Evident/Olympus
H227	H105 glass stage plate assembly
H231	H105 aluminum stage plate assembly
H231B	Breadboard stage insert assembly (H105)
H143	Wafer chuck spring loaded 3 in
H146	Wafer chuck, 150 mm sprung, H105 stages
HWC15S	H105 wafer chuck (4"& 6" wafers)
HWC15V	Wafer chuck rot+vac 150 mm/H105

Objective positioners and adapters

When ordering ensure the correct part number is used to specify upright calibration. Objective positioners require a threaded adapter in order to be fitted to the microscope nosepiece and the microscope objective. Evident/Olympus microscopes typically use RMS threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some MX50 nosepieces have a raised lip surrounding the objective positions, which may clash with the objective positioner; a 15 mm spacer can be added to clear the lip. Please specify the nosepiece attachment fitted to the microscope when ordering. Please note that the two objective positions adjacent to the objective positioner will not be usable due to space constraints; additional positions may be unusable on smaller nosepieces. A high load calibration is available for specialist heavy objectives. Control of the objective positioner via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGOP-400-UP-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-400-UP-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QGOP-800-UP-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-800-UP-HL-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QG-OP-MIC-RMS	OP microscope adapter RMS
QG-OP-MIC-W26	OP microscope adapter M26
QG-OP-OBJ-RMS	OP objective adapter M32 x 0.75 to RMS
QG-OP-OBJ-W26	OP objective adapter M26
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP-400 objective

Motorized focus

The PS3H122R plus H807 combination is required to drive the fine focus knob of the microscope. The coarse focus will not be motorized. The H122KBIX direct coupling can be added for more precise motorized control.

Part	Description
PS3H122R	Generic focus drive and adapter with rotating cable system preventing cable twisting
H807	Evident/Olympus BX and IX focus sleeve.
H122KBIX	Direct fine focus coupling for Evident/Olympus IX/BX microscopes.

Autofocus

The PF850 is a standalone hardware autofocus. The LF335 flange set is recommended for systems using only transmitted light or non-fluorescence reflected light. The PF200, PF209 and PF300 are required for setup and maintenance. The PF404 is required for use with piezo nanopositioning systems.

Part	Description
PF850	PF head, controller with digipot power supply, cables
PF850M	PF head - line mode, controller with digipot power supply, cables
LF335	PF850 flange set (Evident/Olympus BX)
PF209	PureFocus setup sample slide
PF200	PureFocus setup camera alignment target type 1, RMS.DIA 0.8 x 36
PF200	PureFocus setup camera jig
PF404	Piezo cable for PF850 15D to BNC

Illumination

The L200OL and L200SOL are recommended for fluorescence microscopy (see **datasheet** for details). The L200SOL has a built in shutter mechanism which can be controlled via a ProScan III controller, so a standalone shutter is not required. The L220OL and L220SOL are available for customers doing fluorescence imaging in the far-red.

Part	Description
L200SOL	L200 standard box, lamp, light guide, shutter and Evident/Olympus collimator
L200OL	L220 standard box, lamp, light guide and Evident/Olympus collimator
L220SOL	L220 standard box, lamp, light guide, shutter and Evident/Olympus collimator
L220OL	L220 standard box, lamp, light guide and Evident/Olympus collimator

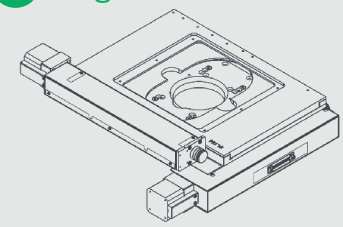
Excitation path

Filter wheels are not supplied with filters. Contact Prior Scientific if you wish to purchase a filter wheel stand that can be fixed to an optical table. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed above. The HF235 adapter is required for filter wheels and shutters in the episcopic and diascopic illumination pathways.

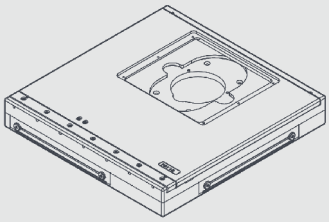
Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF204HT	35 mm high temperature standalone shutter
HF108A	8 position 32 mm diameter filter wheel plus shutter combination without stand

Evident/Olympus MX61/MX63 configuration chart

1 Stages

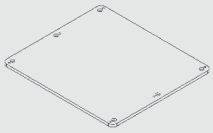


H105/2OL, HE05/2OL
ProScan stage for up to 6 inch diameter wafers

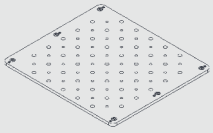


H105N2OL, H105E2OL
ProScan stage for up to 6 inch diameter wafers

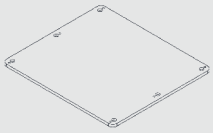
6 Sample holders



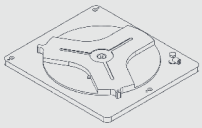
H227
Glass stage plate assembly



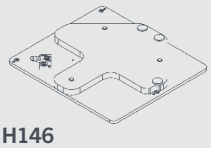
H231B
Breadboard stage insert assembly



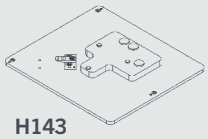
H231
Aluminum stage plate assembly



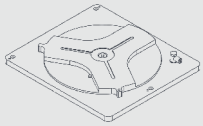
HWC15V
Wafer chuck rot + vac 150 mm



H146
Wafer chuck, 150 mm sprung

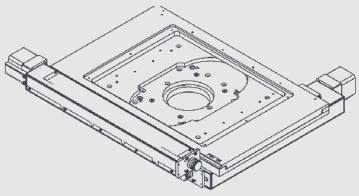


H143
Wafer chuck spring loaded 3 in



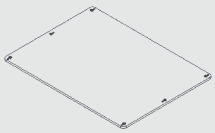
HWC15S
Wafer chuck (4 in & 6 in wafers)

1 Stages

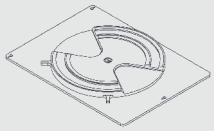


H116/2OL, HE16/2OL
ProScan stage for up to
8 inch diameter wafers

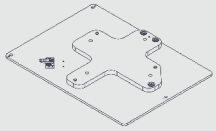
6 Sample holders



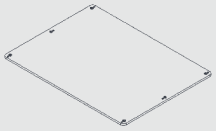
H225
Glass stage plate assembly



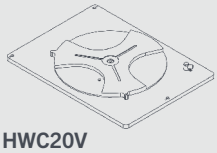
HWC20S
Wafer chuck, rotating



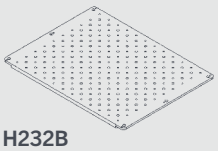
H149, H149N
Wafer chuck



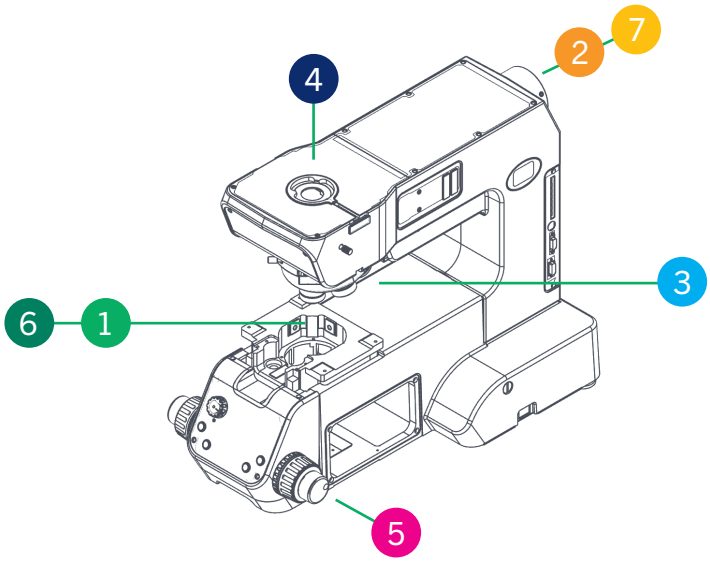
H232
Aluminum stage plate assembly



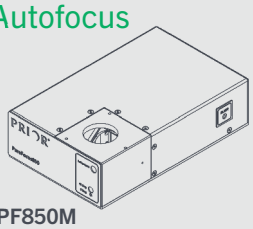
HWC20V
Wafer chuck, rotating, vacuum



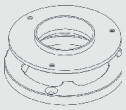
H232B
Breadboard stage insert



4 Autofocus

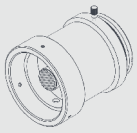


PF850/PF850M
PF head, controller with digipot power supply, cables



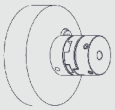
LF335
PF850 flange set

5 Motorized focus



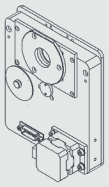
PS3H122R
Generic focus drive and adapter

H807
Focus sleeve



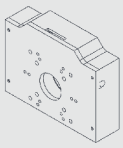
H122KBIX
Direct fine focus coupling

2 Excitation path



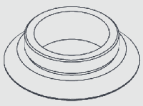
HF108A
Filter wheel, 8 position, 32 mm diameter filters

HF235
Filter wheel adapter

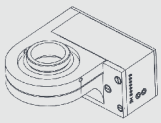


HF204HT
35mm high temperature standalone shutter

3 Objective positioner



QG-OP-MIC-RMS
Microscope adapter

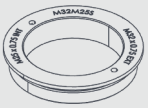


QGOP-400-UP-D1
OP400 objective scanner system (0–500 g load)

QGOP-400-UP-HL-D1
OP400 objective scanner system (500–1000 g load)

QGOP-800-UP-D1
OP800 objective scanner system (0–500 g load)

QGOP-800-UP-HL-D1
OP800 objective scanner system (500–1000 g load)



QG-OP-OBJ-RMS
Objective adapter

7 Illumination

L200SOL, L220SOL
Fluorescence illuminator, built in shutter

L200OL, L220OL
Fluorescence illuminator

See the following pages for more product information.

Evident/Olympus MX61/MX63 configuration guide

The Evident/Olympus MX61 and MX63 are motorized microscopes designed for semiconductor analysis.

Stages and sample holders

The H105/2OL, HE05/2OL, H105N2OL and H105E2OL are also available for smaller wafers. The H105N2OL and H105E2OL feature a flat top design for easy loading. All sample holders listed are compatible with all types of stage. The HWC20V and HWC15V are fitted with a vacuum nozzle but no vacuum pump system is supplied. Please note that Prior Scientific stages are not compatible with the MX61-A.

Motorized XY stages and sample holders for up to 6 inch diameter wafers

Part	Description
H105/2OL	ProScan stage, 154x154 mm travel, part encoded, 2 mm pitch, 200 step, Evident/Olympus
HE05/2OL	ProScan stage, 154x154 mm travel, encoded, 2 mm pitch, 200 step, Evident/Olympus
H105N2OL	ProScan stage, 154x154 mm travel, non-encoded, 2 mm pitch, 200 step, Evident/Olympus
H105E2OL	ProScan stage, 154x154 mm travel, encoded, 2 mm pitch, 200 step, Evident/Olympus
H227	H105 glass stage plate assembly
H231	H105 aluminum stage plate assembly
H231B	Breadboard stage insert assembly (H105)
H143	Wafer chuck spring loaded 3 inch
H146	Wafer chuck, 150 mm sprung, H105 stages
HWC15S	H105 wafer chuck (4"& 6" wafers)
HWC15V	Wafer chuck rot+vac 150 mm/H105

Motorized XY stages and sample holders for up to 8 inch diameter wafers

Part	Description
H116/2OL	ProScan stage, 255x215 mm travel, part encoded, 2 mm pitch, 200 step, Evident/Olympus
HE16/2OL	ProScan stage, 255x215 mm travel, encoded, 2 mm pitch, 200 step, Evident/Olympus
H225	Glass stage plate 8 in x 8 in assembly
H232	H116 aluminum stage plate assembly
H232B	Breadboard stage insert assembly (H116)
H149	Wafer chuck, 200 mm sprung, H116 stages
H149N	Wafer chuck, 200 mm notched sprung, H116 stages
HWC20S	Wafer chuck, rotating, 150 mm/200 mm, H116 stages
HWC20V	Wafer chuck, rotating, vacuum, 200 mm, H116 stages

Objective positioners and adapters

When ordering ensure the correct part number is used to specify upright calibration. Objective positioners require a threaded adapter in order to be fitted to the microscope nosepiece and the microscope objective. Evident/Olympus microscopes typically use RMS threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some nosepieces have a raised lip surrounding the objective positions, which may clash with the objective positioner; a 15 mm spacer can be added to clear the lip. Please specify the nosepiece attachment fitted to the microscope when ordering. Please note that the two objective positions adjacent to the objective positioner will not be usable due to space constraints; additional positions may be unusable on smaller nosepieces. A high load calibration is available for specialist heavy objectives. Control of the objective positioner via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGOP-400-UP-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-400-UP-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QGOP-800-UP-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-800-UP-HL-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QG-OP-MIC-W26	Microscope adapter W26 x 0.706 (M26 x 1/36”)
QG-OP-MIC-RMS	OP microscope adapter RMS
QG-OP-OBJ-W26	Objective adapter W26 x 0.706 (M26 x 1/36”)
QG-OP-OBJ-RMS	OP objective adapter M32 x 0.75 to RMS
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP-400 objective

Motorized focus

The PS3H122R plus H807 combination is required to drive the fine focus knob of the microscope. The coarse focus will not be motorized. The H122KBIX direct coupling can be added for more precise motorized control.

Part	Description
PS3H122R	Generic focus drive and adapter with rotating cable system preventing cable twisting
H807	Evident/Olympus BX and IX focus sleeve
H122KBIX	Direct fine focus coupling for Evident/Olympus IX/BX microscopes

Autofocus

The PF850 is a standalone hardware autofocus. The LF335 flange set is recommended for systems using only transmitted light or non-fluorescence reflected light. The PF200, PF209 and PF300 are required for setup and maintenance. The PF404 is required for use with piezo nanopositioning systems.

Part	Description
PF850	PF head, controller with digipot power supply, cables
PF850M	PF head - line mode, controller with digipot power supply, cables
LF335	PF850 flange set (Evident/Olympus BX)
PF209	PureFocus setup sample slide
PF200	PureFocus setup camera alignment target type 1, RMS.DIA 0.8 x 36
PF300	PureFocus setup camera jig
PF404	Piezo cable for PF850 15D to BNC

Illumination

The L200OL and L200SOL are recommended for fluorescence microscopy (see **datasheet** for details). The L200SOL has a built in shutter mechanism which can be controlled via a ProScan III controller, so a stand alone shutter is not required. The L220OL and L220SOL are available for customers doing fluorescence imaging in the far-red.

Part	Description
L200SOL	L200 standard box, lamp, light guide, shutter and Evident/Olympus collimator
L200OL	L220 standard box, lamp, light guide and Evident/Olympus collimator
L220SOL	L220 standard box, lamp, light guide, shutter and Evident/Olympus collimator
L220OL	L220 standard box, lamp, light guide and Evident/Olympus collimator

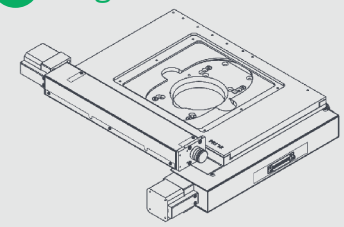
Excitation path

Filter wheels are not supplied with filters. Contact Prior Scientific if you wish to purchase a filter wheel stand that can be fixed to an optical table. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed above. The HF235 adapter is required for filter wheels and shutters in the episcopic illumination pathway.

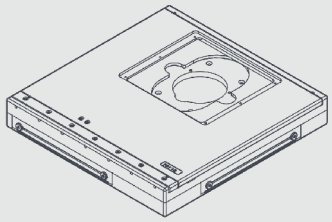
Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF204HT	35 mm high temperature standalone shutter
HF108A	Filter wheel, 8 position, 32 mm diameter filters without stand
HF108	Filter wheel, 8 position, 32 mm diameter filters with stand
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

Evident/Olympus MX61L/MX63L configuration chart

1 Stages

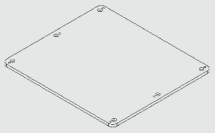


H105/2OL, HE05/2OL
ProScan stage for up to 6 inch diameter wafers

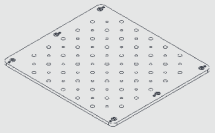


H105N2OL, H105E2OL
ProScan stage for up to 6 inch diameter wafers

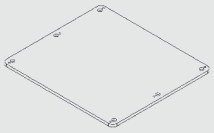
6 Sample holders



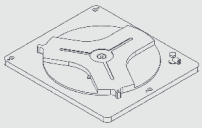
H227
Glass stage plate assembly



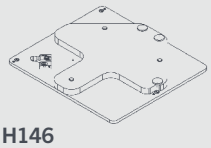
H231B
Breadboard stage insert assembly



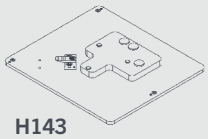
H231
Aluminum stage plate assembly



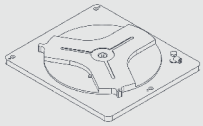
HWC15V
Wafer chuck rot + vac 150 mm



H146
Wafer chuck, 150 mm sprung

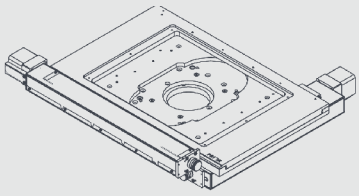


H143
Wafer chuck spring loaded 3 in



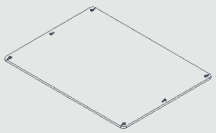
HWC15S
Wafer chuck (4 in & 6 in wafers)

1 Stages

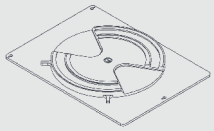


H116/2OL, HE16/2OL
ProScan stage for up to
8 inch diameter wafers

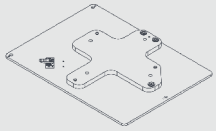
6 Sample holders



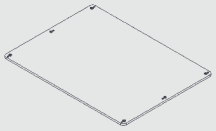
H225
Glass stage plate assembly



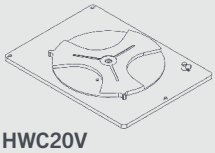
HWC20S
Wafer chuck, rotating



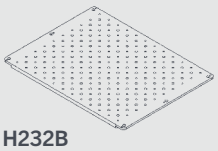
H149, H149N
Wafer chuck



H232
Aluminum stage plate assembly

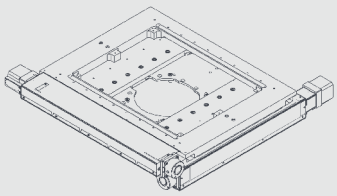


HWC20V
Wafer chuck, rotating



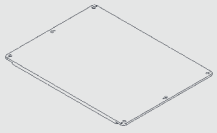
H232B
Breadboard stage insert

1 Stages

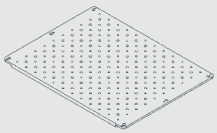


H112/2ST, HE12/2ST
ProScan stage, 302 x 302 mm travel,
part encoded, 2 mm pitch, 200 step

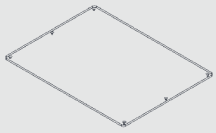
6 Sample holders



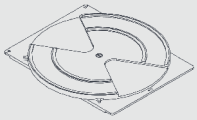
H233
Aluminum stage plate assembly



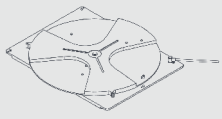
H233B
Breadboard stage insert assembly



H221
Glass stage plate assembly

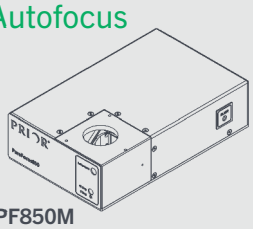


HWC30S
Stepped wafer chuck 300D

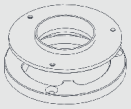


HWC30V
300 mm vacuum wafer chuck

3 Autofocus

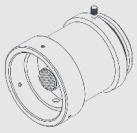


PF850/PF850M
PF head, controller with digipot power supply, cables



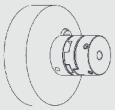
LF335
PF850 flange set

4 Motorized focus

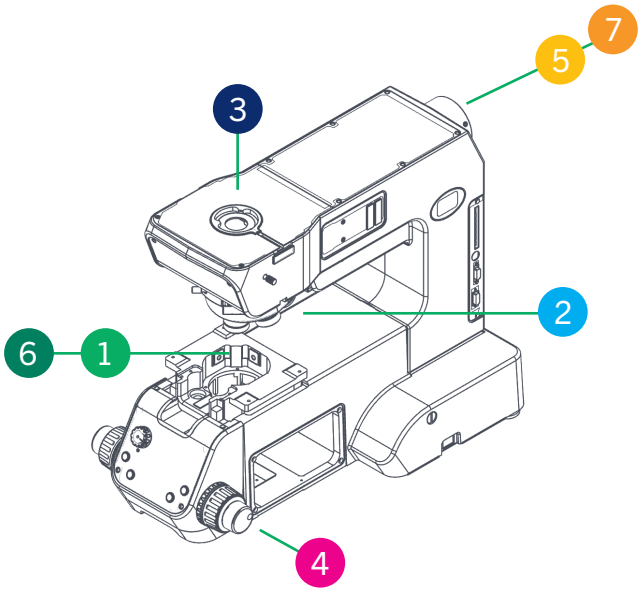


PS3H122R
Generic focus drive and adapter

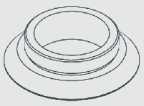
H807
Focus sleeve



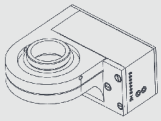
H122KBIX
Direct fine focus coupling



2 Objective positioner



QG-OP-MIC-RMS
Microscope adapter

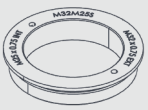


QGOP-400-UP-D1
OP400 objective scanner system (0–500 g load)

QGOP-400-UP-HL-D1
OP400 objective scanner system (500–1000 g load)

QGOP-800-UP-D1
OP800 objective scanner system (0–500 g load)

QGOP-800-UP-HL-D1
OP800 objective scanner system (500–1000 g load)



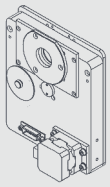
QG-OP-OBJ-RMS
Objective adapter

5 Illumination

L200SOL, L220SOL
Fluorescence illuminator, built in shutter

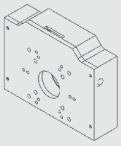
L200OL, L220OL
Fluorescence illuminator

7 Excitation path



HF108A
Filter wheel, 8 position, 32 mm diameter filters

HF235
Filter wheel adapter



HF204HT
35mm high temperature standalone shutter

See the following pages for more product information.

Evident/Olympus MX61L/ MX63L configuration guide

The Evident/Olympus MX61L and MX63L are a motorized microscope designed for semiconductor analysis.

Stages and sample holders

The H112/2ST and HE12/2ST are the largest stages available for this microscope due to its throat size and can take up to 12 inch wafers. The H116/2OL and HE16/2OL are available for up to 8 inch wafers. The H105/2OL, HE05/2OL, H105N2OL and H105E2OL are also available for smaller wafers. The H105N2OL and H105E2OL feature a flat top design for easy loading. All sample holders listed are compatible with all types of stage. The HWC30V, HWC20V and HWC15V are fitted with a vacuum nozzle but no vacuum pump system is supplied. Please note that Prior Scientific stages are not compatible with the MX61L-A.

Motorized XY stages and sample holders for up to 6 inch diameter wafers

Part	Description
H105/2OL	ProScan stage, 154x154 mm travel, part encoded, 2 mm pitch, 200 step, Evident/Olympus
HE05/2OL	ProScan stage, 154x154 mm travel, encoded, 2 mm pitch, 200 step, Evident/Olympus
H105N2OL	ProScan stage, 154x154 mm travel, non-encoded, 2 mm pitch, 200 step, Evident/Olympus
H105E2OL	ProScan stage, 154x154 mm travel, encoded, 2 mm pitch, 200 step, Evident/Olympus
H227	H105 glass stage plate assembly
H231	H105 aluminum stage plate assembly
H231B	Breadboard stage insert assembly (H105)
H143	Wafer chuck spring loaded 3 in
H146	Wafer chuck, 150 mm sprung, H105 stages
HWC15S	H105 wafer chuck (4"& 6" wafers)
HWC15V	Wafer chuck rot+vac 150 mm/H105

Motorized XY stages and sample holders for up to 8 inch diameter wafers

Part	Description
H116/2OL	ProScan stage, 255x215 mm travel, part encoded, 2 mm pitch, 200 step, Evident/Olympus
HE16/2OL	ProScan stage, 255x215 mm travel, encoded, 2 mm pitch, 200 step, Evident/Olympus
H225	Glass stage plate 8 in x 8 in assembly
H232	H116 aluminum stage plate assembly
H232B	Breadboard stage insert assembly (H116)
H149	Wafer chuck, 200 mm sprung, H116 stages
H149N	Wafer chuck, 200 mm notched sprung, H116 stages
HWC20S	Wafer chuck, rotating, 150 mm/200 mm, H116 stages
HWC20V	Wafer chuck, rotating, vacuum, 200 mm, H116 stages

Motorized XY stages and sample holders for up to 12 inch diameter wafers

Part	Description
H112/2ST	ProScan stage, 154 x 154 mm travel, part encoded, 2 mm pitch, 200 step
HE12/2ST	ProScan stage, 154 x 154 mm travel, part encoded, 2 mm pitch, 200 step
H233	Aluminum stage plate assembly
H233B	Breadboard stage insert assembly
H221	Glass stage plate assembly
HWC30S	Stepped wafer chuck 300D
HWC30V	300 mm vacuum wafer chuck

Objective positioners and adapters

When ordering ensure the correct part number is used to specify upright calibration. Objective positioners require a threaded adapter in order to be fitted to the microscope nosepiece and the microscope objective. Evident/Olympus microscopes typically use RMS threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some nosepieces have a raised lip surrounding the objective positions, which may clash with the objective positioner; a 15mm spacer can be added to clear the lip. Please specify the nosepiece attachment fitted to the microscope when ordering. Please note that the two objective positions adjacent to the objective positioner will not be usable due to space constraints; additional positions may be unusable on smaller nosepieces. A high load calibration is available for specialist heavy objectives. Control of the objective positioner via Evident/Olympus Software requires the use of the Evident/Olympus Realtime Controller.

Part	Description
QGOP-400-UP-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-400-UP-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QGOP-800-UP-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP-800-UP-HL-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QG-OP-MIC-W26	OP microscope adapter W26 x 0.706 (M26 x 1/36”)
QG-OP-MIC-RMS	OP microscope adapter RMS
QG-OP-OBJ-W26	OP objective adapter W26 x 0.706 (M26 x 1/36”)
QG-OP-OBJ-RMS	OP objective adapter M32 x 0.75 to RMS
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP-400 objective

Motorized focus

The PS3H122R plus H807 combination is required to drive the fine focus knob of the microscope. The coarse focus will not be motorized. The H122KBIX direct coupling can be added for more precise motorized control.

Part	Description
PS3H122R	Generic focus drive and adapter with rotating cable system preventing cable twisting
H807	Evident/Olympus BX and IX focus sleeve
H122KBIX	Direct fine focus coupling for Evident/Olympus IX/BX microscopes

Autofocus

The PF850 is a stand alone hardware autofocus. The LF335 flange set is recommended for systems using only transmitted light or non-fluorescence reflected light. The PF200, PF209 and PF300 are required for setup and maintenance. The PF404 is required for use with piezo nanopositioning systems.

Part	Description
PF850	PF head, controller with digipot power supply, cables
PF850M	PF head - line mode, controller with digipot power supply, cables
PLF335	PF850 flange set (Evident/Olympus BX)
PF209	PureFocus setup sample slide
PF200	PureFocus setup camera alignment target type 1, RMS.DIA 0.8 x 36
PF300	PureFocus setup camera jig
PF404	Piezo cable for PF850 15D to BNC

Illumination

The L200OL and L200SOL are recommended for fluorescence microscopy (see **datasheet** for details). The L200SOL has a built in shutter mechanism which can be controlled via a ProScan III controller, so a stand alone shutter is not required. The L220OL and L220SOL are available for customers doing fluorescence imaging in the far-red.

Part	Description
L200SOL	L200 standard box, lamp, light guide, shutter and Evident/Olympus collimator
L200OL	L220 standard box, lamp, light guide and Evident/Olympus collimator
L220SOL	L220 standard box, lamp, light guide, shutter and Evident/Olympus collimator
L220OL	L220 standard box, lamp, light guide and Evident/Olympus collimator

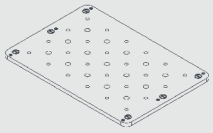
Excitation path

Filter wheels are not supplied with filters. Contact Prior Scientific if you wish to purchase a filter wheel stand that can be fixed to an optical table. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed above. The HF235 adapter is required for filter wheels and shutters in the episcopic illumination pathway.

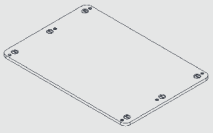
Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF204HT	35 mm high temperature standalone shutter
HF108A	Filter wheel, 8 position, 32 mm diameter filters without stand
HF108	Filter wheel, 8 position, 32 mm diameter filters with stand
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

Evident/Olympus MVX10 configuration chart

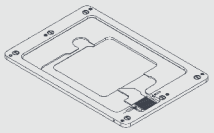
6 Sample holders



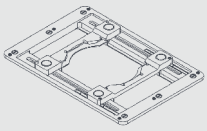
H230B
Breadboard insert plate



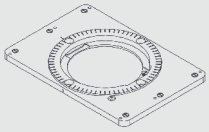
H230
Solid stage plate



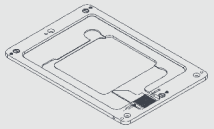
H224LP
Low profile 3 in x 1 in slide holder



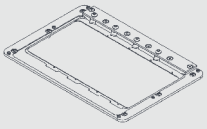
H473UP
Universal sample holder



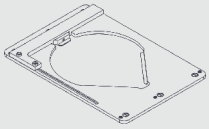
H224ROT
3 in x 1 in manual rotating slide holder



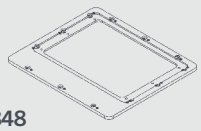
H237LP
Low profile 3 in x 1 in slide holder



H234LP
Low profile, four 3 in x 1 in slide holder

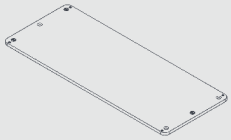


H229UP
Universal Petri dish holder

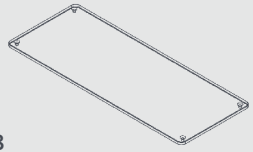


H3848
Low profile slide holder adapter kit

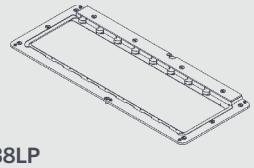
6 Sample holders



H239
Solid stage plate

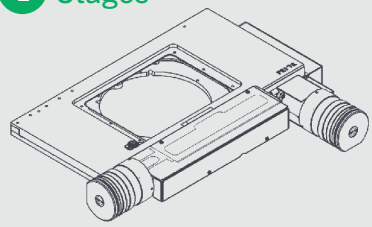


H288
Glass stage plate



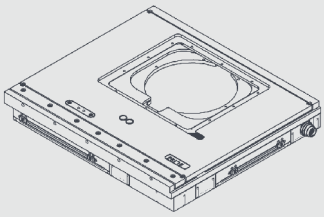
H238LP
Low profile eight 3 in x 1 in slide holder

1 Stages



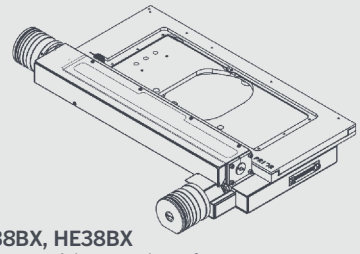
H101BX, HE01BX, H1P4BX, HEP4BX
Proscan upright stage

1 Stages



H101P2BX, H101E2BX, H101P1BX, H101E1BX
Proscan upright stage, flat top

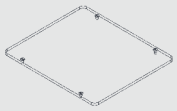
1 Stages



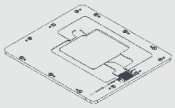
H138BX, HE38BX
Proscan upright stage, large format

6 Stage accessories

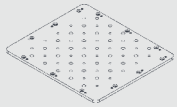
H230F
Solid stage plate



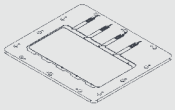
H220F
Glass stage plate



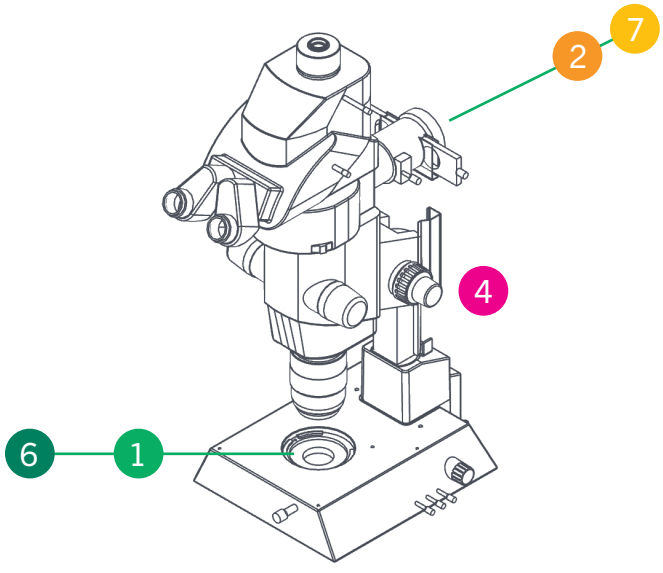
H224F
Low profile 3 in x 1 in slide holder



H230FB
Breadboard stage insert assembly



H234F
Four 3 in x 1 in slide holder

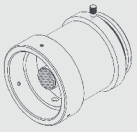


7 Illumination

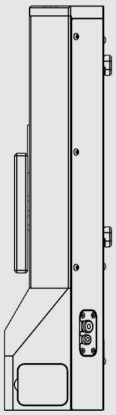
L200SOL, L220SOL
Fluorescence illuminator, built in shutter

L200OL, L220OL
Fluorescence illuminator

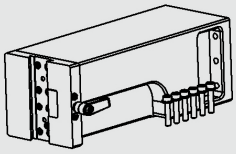
4 Motorized focus



PS3H122SZX2
Generic focus drive and adapter

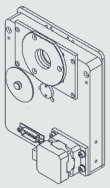


H275LMT, H275LMTE
Extended motorized focus towers



H275LMVX
Adapter arm for MVX optics

2 Excitation path



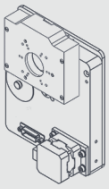
HF110A
Filter wheel, 10 position, 25 mm diameter filters

HF110
Filter wheel, 10 position, 25 mm diameter filters with stand

HF106A
Filter wheel, 6 position, 25 mm diameter filters

HF108A
Filter wheel, 8 position, 32 mm diameter filters

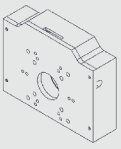
HF108
Filter wheel, 8 position, 32 mm diameter filters with stand



HF110A + HF200HT
10 position 25 mm diameter filter wheel plus shutter combination

HF108A + HF201HT
8 position 32 mm diameter filter wheel plus shutter combination

HF235
Filter wheel adapter



HF202HT
25mm high temperature stand alone shutter

HF204HT
35mm high temperature stand alone shutter

See the following pages for more product information.

Evident/Olympus MVX10 configuration guide

The Evident/Olympus MVX10 is an advanced stereo microscope. Prior are able to supply stages and illumination upgrades for this microscope.

Stages and sample holders

All the sample holders listed in the first section of the above table are compatible with the H101BX, HE01BX, H1P4BX, and HEP4BX. All the sample holders listed in the second section are compatible with the flat top H101P2BX, H101E2BX, H101P1BX and H101E1BX. In addition, sample holders from the first section are compatible with the flat top stage range when combined with the H3848. The large format H138BX and HE38BX can support up to 8 slides. All stages require the SZX-STAD2 or M-SA-SZX adapter from Evident/Olympus to be fitted.

Motorized XY stages and sample holders

Part	Description
H101BX	Proscan upright stage, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX
HE01BX	Proscan upright stage, encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H1P4BX	Proscan upright stage, part encoded, 1 mm pitch, 400 step, Evident/Olympus BX
HEP4BX	Proscan upright stage, encoded, 1 mm pitch, 400 step, Evident/Olympus BX
H473UP	Universal sample holder (slides, Petri dishes, small flasks), upright
H224LP	Low profile 3 in x 1 in slide holder
H234LP	Low profile, four 3 in x 1 in slide holder
H237LP	Low profile 3 in x 2 in slide holder
H229UP	Universal Petri dish holder, upright stages, up to 90 mm diameter
H230	Solid stage plate, H101A stages
H224ROT	3 in x 1 in manual rotating slide holder
H230B	Breadboard insert plate M4 & M6 (H101)
H220	H101 Glass stage plate assembly

Flat top XY motorized stages and sample holders

Part	Description
H101P2BX	Proscan upright stage, flat top, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H101E2BX	Proscan upright stage, flat top, encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H101P1BX	Proscan upright stage, flat top, 1 mm pitch, 200 step, Evident/Olympus BX
H101E1BX	Proscan upright stage, flat top, encoded, 1 mm pitch, 200 step, Evident/Olympus BX
H3848	Low profile slide holder adapter kit for H101F
H230F	Solid stage plate, H101F Stages
H224F	Low profile 3 in x 1 in slide holder, extended, H101F stages
H234F	Four 3 in x 1 in slide holder, H101F stages
H220F	Glass stage plate, H101F stages
H230FB	Breadboard stage insert assembly (H101F)

Large format XY motorized stages and sample holders

Part	Description
H138BX	Proscan upright stage, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX, for up to 8 slides
HE38BX	Proscan upright stage, encoded, 2 mm pitch, 200 step, Evident/Olympus BX, for up to 8 slides
H238LP	Low profile eight 3 in x 1 in slide holder
H238PLP	Low profile eight 3in x 1in slide holder, part recessed
H239	Solid stage plate, H138 stages
H288	Glass stage plate, H138 stages

Motorized focus

The PS3H122SZX2 couples indirectly to the SZX-FOFH focus unit via a friction pad. The H275LMT and H275LMT can be used to translate the entire MVX10 head using the H275LMVX in combination with the MVX-ZB10 zoom body. Please note that when using the H275LMT and H275LMTE, it is possible to use much larger stages with the MVX10 than indicated in this section of the sales guide.

Part	Description
PS3H122SZX2	Generic focus drive and adapter with rotating cable system preventing cable twisting
H275LMT	Extended motorized focus tower
H275LMTE	Extended motorized focus tower, encoded
H275LMVX	Adapter arm for MVX optics

Illumination

The L200OL and L200SOL are recommended for fluorescence microscopy (see **datasheet** for details). The L200SOL has a built in shutter mechanism which can be controlled via a ProScan III controller, so a standalone shutter is not required. The L220OL and L220SOL are available for customers doing fluorescence imaging in the far-red.

Part	Description
L200SOL	L200 Standard box, lamp, light guide, shutter and Evident/Olympus collimator
L200OL	L220 Standard box, lamp, light guide and Evident/Olympus collimator
L220SOL	L220 Standard box, lamp, light guide, shutter and Evident/Olympus collimator
L220OL	L220 Standard box, lamp, light guide and Evident/Olympus collimator

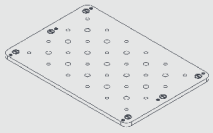
Excitation path

Filter wheels are not supplied with filters. Contact Prior Scientific if you wish to purchase a filter wheel stand that can be fixed to an optical table. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed above. The HF235 adapter is required for filter wheels and shutters in the diascopic illumination pathways.

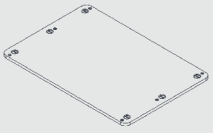
Part	Description
HF235	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF202HT	25 mm high temperature standalone shutter
HF204HT	35 mm high temperature standalone shutter
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters with stand
HF108A	Filter wheel, 8 position, 32 mm diameter filters without stand
HF108	Filter wheel, 8 position, 32 mm diameter filters with stand
HF110A + HF200HT	10 position 25 mm diameter filter wheel plus shutter combination
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

Evident/Olympus SZX series configuration chart

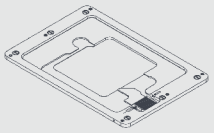
6 Sample holders



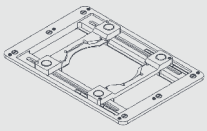
H230B
Breadboard insert plate



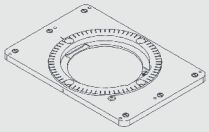
H230
Solid stage plate



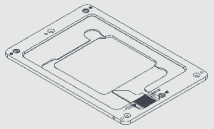
H224LP
Low profile 3 in x 1 in slide holder



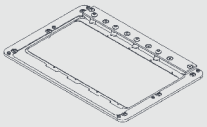
H473UP
Universal sample holder



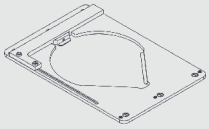
H224ROT
3 in x 1 in manual rotating slide holder



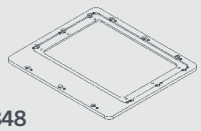
H237LP
Low profile 3 in x 1 in slide holder



H234LP
Low profile, four 3 in x 1 in slide holder

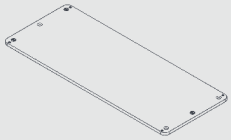


H229UP
Universal Petri dish holder

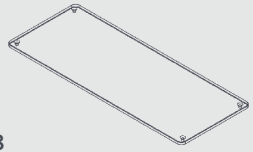


H3848
Low profile slide holder adapter kit

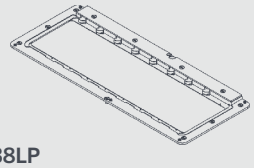
6 Sample holders



H239
Solid stage plate

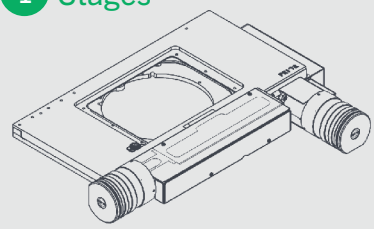


H288
Glass stage plate



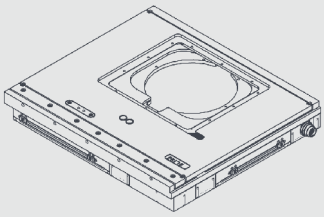
H238LP
Low profile eight 3 in x 1 in slide holder

1 Stages



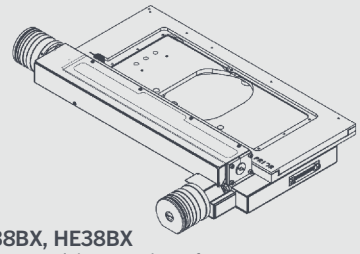
H101BX, HE01BX, H1P4BX, HEP4BX
ProScan upright stage

1 Stages



H101P2BX, H101E2BX, H101P1BX, H101E1BX
ProScan upright stage, flat top

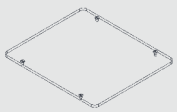
1 Stages



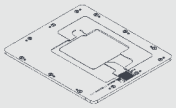
H138BX, HE38BX
ProScan upright stage, large format

6 Stage accessories

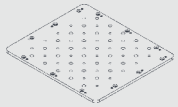
H230F
Solid stage plate



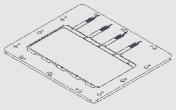
H220F
Glass stage plate



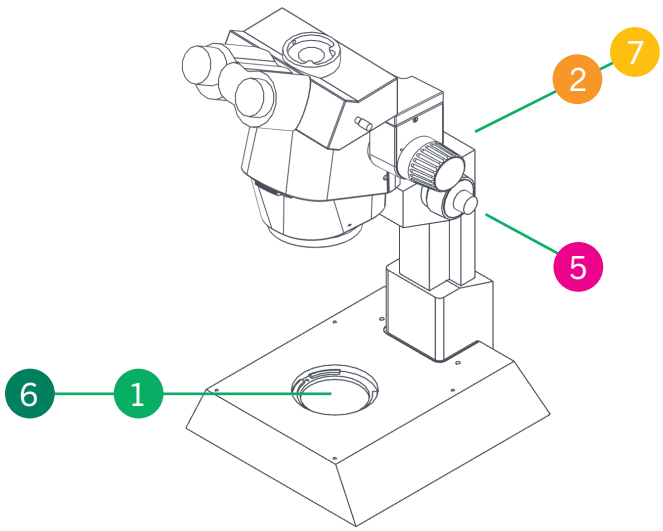
H224F
Low profile 3 in x 1 in slide holder



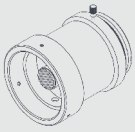
H230FB
Breadboard stage insert assembly



H234F
Four 3 in x 1 in slide holder



5 Motorized focus



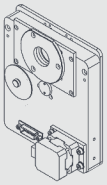
PS3H122SZX
PS3H122SZX2
ZX focus drive and adapter

7 Illumination

L200SOL, L220SOL
Fluorescence illuminator, built in shutter

L200OL, L220OL
Fluorescence illuminator

2 Excitation path



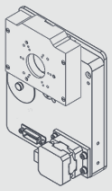
HF110A
Filter wheel, 10 position, 25 mm diameter filters

HF110
Filter wheel, 10 position, 25 mm diameter filters with stand

HF106A
Filter wheel, 6 position, 25 mm diameter filters

HF108A
Filter wheel, 8 position, 32 mm diameter filters

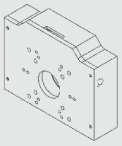
HF108
Filter wheel, 8 position, 32 mm diameter filters with stand



HF110A + HF200HT
10 position 25 mm diameter filter wheel plus shutter combination

HF108A + HF201HT
8 position 32 mm diameter filter wheel plus shutter combination

HF235
Filter wheel adapter



HF202HT
25mm high temperature standalone shutter

HF204HT
35mm high temperature standalone shutter

See the following pages for more product information.

Evident/Olympus SZX configuration guide

The Evident/Olympus SXZ is an advanced stereo microscope. Prior are able to supply stages and illumination upgrades for this microscope.

Stages and sample holders

All the sample holders listed in the first section of the above table are compatible with the H101BX, HE01BX, H1P4BX, and HEP4BX. All the sample holders listed in the second section are compatible with the flat top H101P2BX, H101E2BX, H101P1BX and H101E1BX. In addition, sample holders from the first section are compatible with the flat top stage range when combined with the H3848. The large format H138BX and HE38BX can support up to 8 slides. All stages require the SZX-STAD2 adapter from Evident/Olympus to be fitted.

Motorized XY stages and sample holders

Part	Description
H101BX	ProScan upright stage, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX
HE01BX	ProScan upright stage, encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H1P4BX	ProScan upright stage, part encoded, 1 mm pitch, 400 step, Evident/Olympus BX
HEP4BX	ProScan upright stage, encoded, 1 mm pitch, 400 step, Evident/Olympus BX
H473UP	Universal sample holder (slides, Petri dishes, small flasks), upright
H224LP	Low profile 3 in x 1 in slide holder
H234LP	Low profile, four 3 in x 1 in slide holder
H237LP	Low profile 3 in x 2 in slide holder
H229UP	Universal Petri dish holder, upright stages, up to 90 mm diameter
H230	Solid stage plate, H101A stages
H224ROT	3 in x 1 in manual rotating slide holder
H230B	Breadboard insert plate M4 & M6 (H101)
H220	H101 glass stage plate assembly

Flat top XY motorized stages and sample holders

Part	Description
H101P2BX	ProScan upright stage, flat top, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H101E2BX	ProScan upright stage, flat top, encoded, 2 mm pitch, 200 step, Evident/Olympus BX
H101P1BX	ProScan upright stage, flat top, 1 mm pitch, 200 step, Evident/Olympus BX
H101E1BX	ProScan upright stage, flat top, encoded, 1 mm pitch, 200 step, Evident/Olympus BX
H3848	Low profile slide holder adapter kit for H101F
H230F	Solid stage plate, H101F Stages
H224F	Low profile 3 in x 1 in slide holder, extended, H101F stages
H234F	Four 3 in x 1 in slide holder, H101F stages
H220F	Glass stage plate, H101F stages
H230FB	Breadboard stage insert assembly (H101F)

Large format XY motorized stages and sample holders

Part	Description
H138BX	ProScan upright stage, part encoded, 2 mm pitch, 200 step, Evident/Olympus BX, for up to 8 slides
HE38BX	ProScan upright stage, encoded, 2 mm pitch, 200 step, Evident/Olympus BX, for up to 8 slides
H238LP	Low profile eight 3 in x 1 in slide holder
H238PLP	Low profile eight 3 in x 1 in slide holder, part recessed
H239	Solid stage plate, H138 stages
H288	Glass stage plate, H138 stages

Motorized focus

Both the PS3H122SZX and PS3H122SZX2 focus systems couple indirectly to the fine focus knob of the microscope via a friction pad. The SZX is compatible with the SZX7, SZX9 and SZX12. The SZX2 is compatible with the SZX10 and SZX16. SZX microscopes must be fitted with a fine focus actuator for a Prior motorized focus to be added.

Part	Description
PS3H122SZX	Focus drive assembly, PS3, Evident/Olympus SZX 7/9/12
PS3H122SZX2	Focus drive assembly, PS3, Evident/Olympus SZX 10/16

Illumination

The L200OL and L200SOL are recommended for fluorescence microscopy (see **datasheet** for details). The L200SOL has a built in shutter mechanism which can be controlled via a ProScan III controller, so a standalone shutter is not required. The L220OL and L220SOL are available for customers doing fluorescence imaging in the far-red. Addition of these illuminators requires the SZX-RFA, SZX-RFA2-16 or SZX-RFA2-16A fluorescence illuminator.

Part	Description
L200SOL	L200 standard box, lamp, light guide, shutter and Evident/Olympus collimator
L200OL	L220 standard box, lamp, light guide and Evident/Olympus collimator
L220SOL	L220 standard box, lamp, light guide, shutter and Evident/Olympus collimator
L220OL	L220 standard box, lamp, light guide and Evident/Olympus collimator

Excitation path

Filter wheels are not supplied with filters. Contact Prior Scientific if you wish to purchase a filter wheel stand that can be fixed to an optical table. For systems requiring a shutter and filter wheel it is recommended to buy one of the combinations listed above. The HF260 adapter is required for filter wheels and shutters in the episcopic illumination pathway.

Part	Description
HF260	Filter wheel adapter for Evident/Olympus BX, IX and AX series microscopes
HF202HT	25 mm high temperature standalone shutter
HF204HT	35 mm high temperature standalone shutter
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF110	Filter wheel, 10 position, 25 mm diameter filters with stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand
HF108A	Filter wheel, 8 position, 32 mm diameter filters without stand
HF108	Filter wheel, 8 position, 32 mm diameter filters with stand
HF110A + HF200HT	10 position 25 mm diameter filter wheel plus shutter combination
HF108A + HF201HT	8 position 32 mm diameter filter wheel plus shutter combination

Notes

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CYBER ESSENTIALS

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