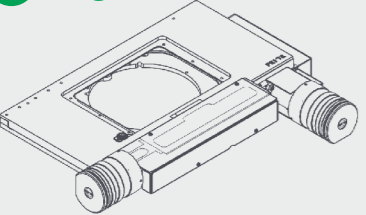
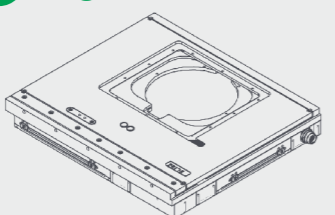


# Evident/Olympus BX41/BX51/ BX43/BX53 configuration chart

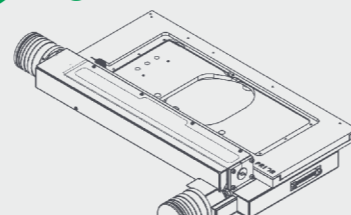
### 1 Stages



**H101BX, HE01BX, H1P4BX, HEP4BX**  
ProScan upright stage




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

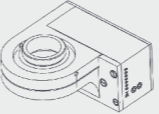


**H138BX, HE38BX**  
ProScan upright stage, large format


### 3 Objective positioner



**QG-OP-MIC-RMS**  
Microscope adapter




**QGOP200-UP-D1  
QGOP400-UP-D1  
QGOP400-UP-HL-D1  
QGOP800-UP-D1  
QGOP800-UP-HL-D1**




**QG-OP-OBJ-RMS**  
Objective adapter

### 7 Illumination

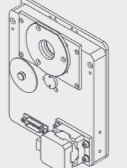


**L200SOL, L220SOL**  
Fluorescence illuminator, built in shutter

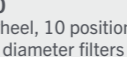


**L2000L, L2200L**  
Fluorescence illuminator

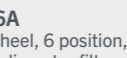
### 2 Excitation path



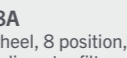
**HF110A**  
Filter wheel, 10 position, 25 mm diameter filters



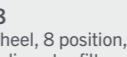
**HF110**  
Filter wheel, 10 position, 25 mm diameter filters with stand



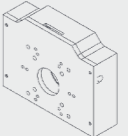
**HF106A**  
Filter wheel, 6 position, 25 mm diameter filters




**HF108A**  
Filter wheel, 8 position, 32 mm diameter filters



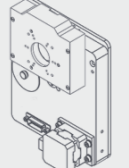
**HF108**  
Filter wheel, 8 position, 32 mm diameter filters with stand



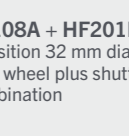
**HF202HT**  
25mm high temperature standalone shutter




**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

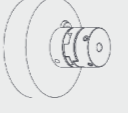
### 5 Motorized focus



**PS3H122R**  
Generic focus drive and adapter

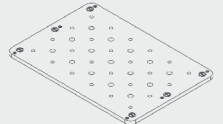


**H807**  
Focus sleeve

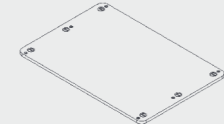


**H122KBIX**  
Direct fine focus coupling

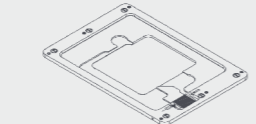
### 6 Sample holders



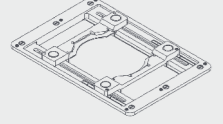
**H230B**  
Breadboard insert plate



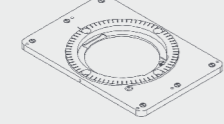
**H230**  
Solid stage plate



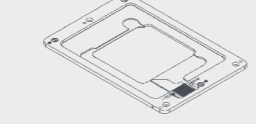
**H224LP**  
Low profile 3 in x 1 in slide holder



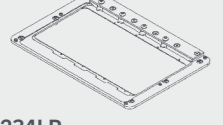
**H473UP**  
Universal sample holder




**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

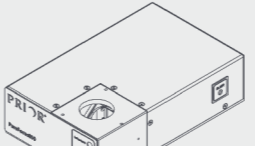


**H229UP**  
Universal Petri dish holder

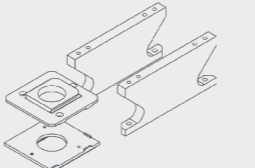


**H3848**  
Low profile slide holder adapter kit


### 4 Autofocus



**PF850**  
PF head, controller with dipipot power supply, cables

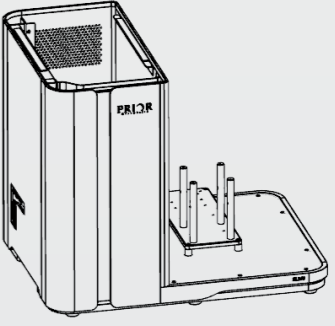


**PF210**  
Evident/Olympus BX fluorescence mounting kit



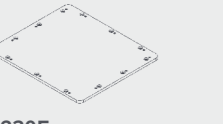
**LF335**  
PF850 flange set

### 8 Robotic slide loader

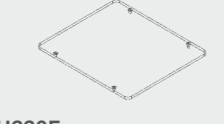


**SL160**  
SL160 with 2mm XY stage

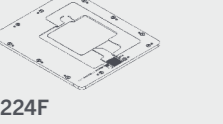
### 6 Stage accessories




**H230F**  
Solid stage plate



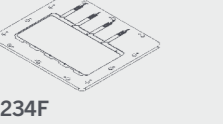
**H220F**  
Glass stage plate



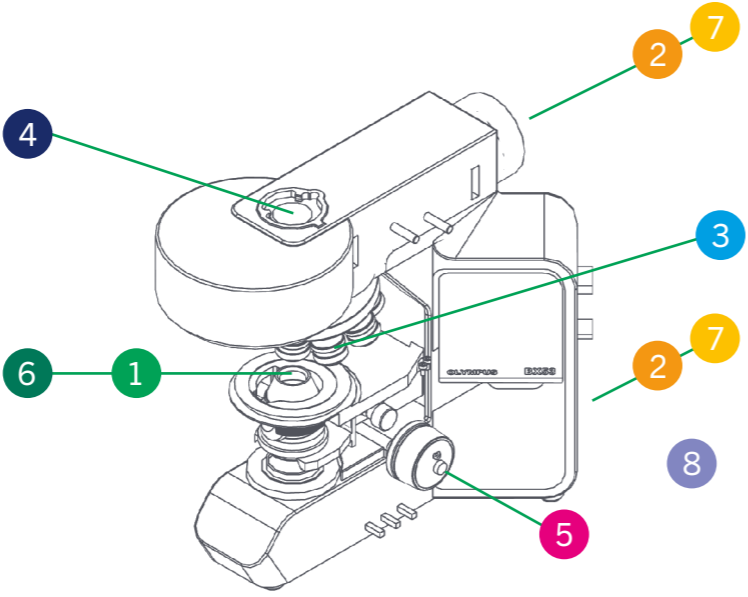
**H224F**  
Low profile 3 in x 1 in slide holder



**H230FB**  
Breadboard stage insert assembly



**H234F**  
Four 3 in x 1 in slide holder



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
QGOP200-UP-D1	OP200 Objective Scanner with NPC-D-6110 controller Upright 0-500g load
QGOP400-UP-D1	OP400 objective scanner system incl. NPC-D-6110 controller for upright microscopes (0-500 g load)
QGOP400-UP-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for upright microscopes (500-1000 g load)
QGOP800-UP-D1	OP800 objective scanner system incl. NPC-D-6110 controller for upright microscopes (0-500 g load)
QGOP800-UP-HL-D1	OP800 objective scanner system incl. NPC-D-6110 controller for upright 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 nan positioning 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 L2000L 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 L2200L 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
L2000L	L220 Standard box, lamp, light guide and Evident/Olympus collimator
L220SOL	L220 Standard box, lamp, light guide, shutter and Evident/Olympus collimator
L2200L	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