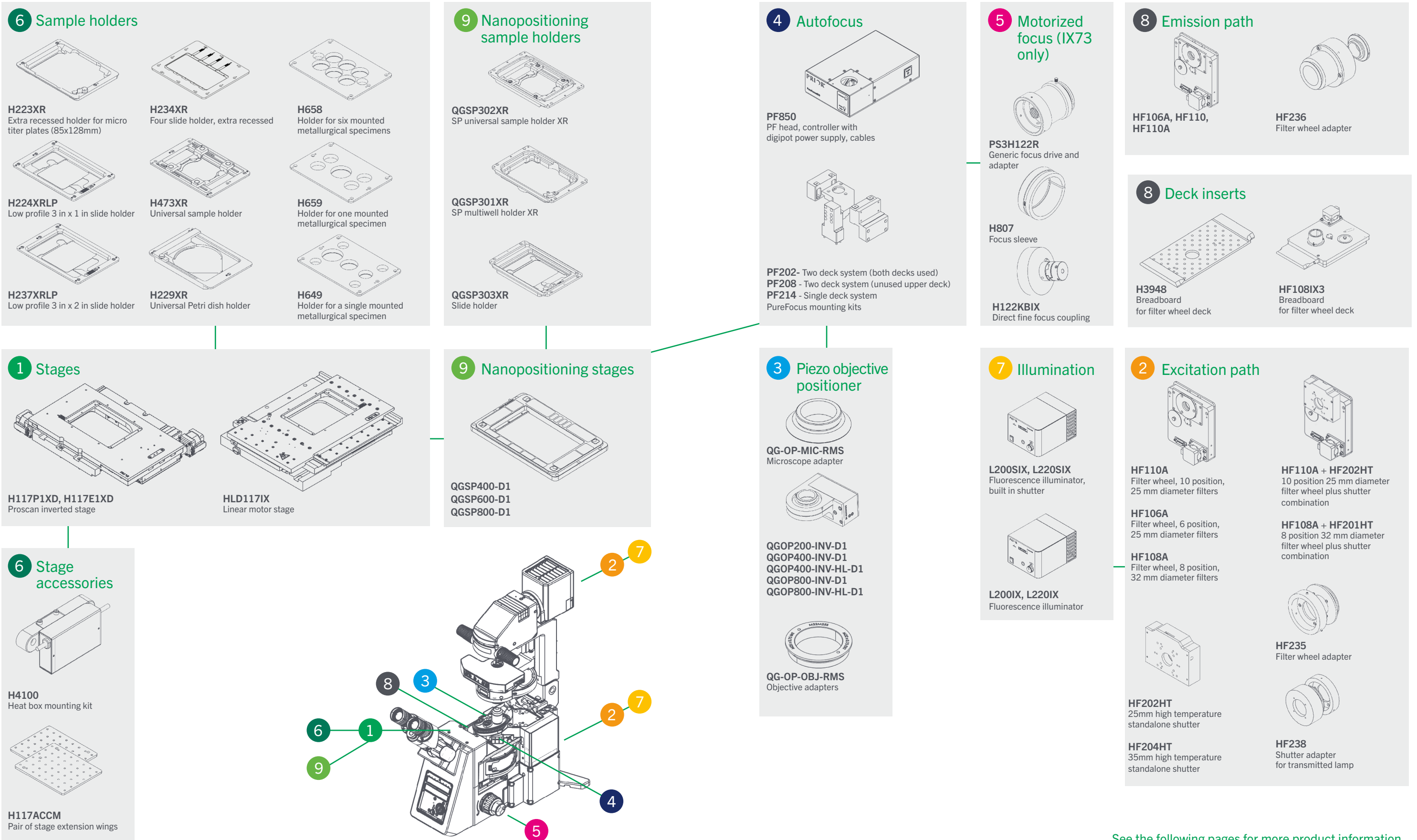


Evident/Olympus IX73 configuration chart



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
QGOP200-INV-D1	OP200 Objective Scanner with NPC-D-6110 controller Inverted 0-500g load
QGOP400-INV-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP400-INV-HL-D1	OP400 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (500-1000 g load)
QGOP800-INV-D1	OP800 objective scanner system incl. NPC-D-6110 controller for inverted microscopes (0-500 g load)
QGOP800-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 OP400 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 LDB1030L 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