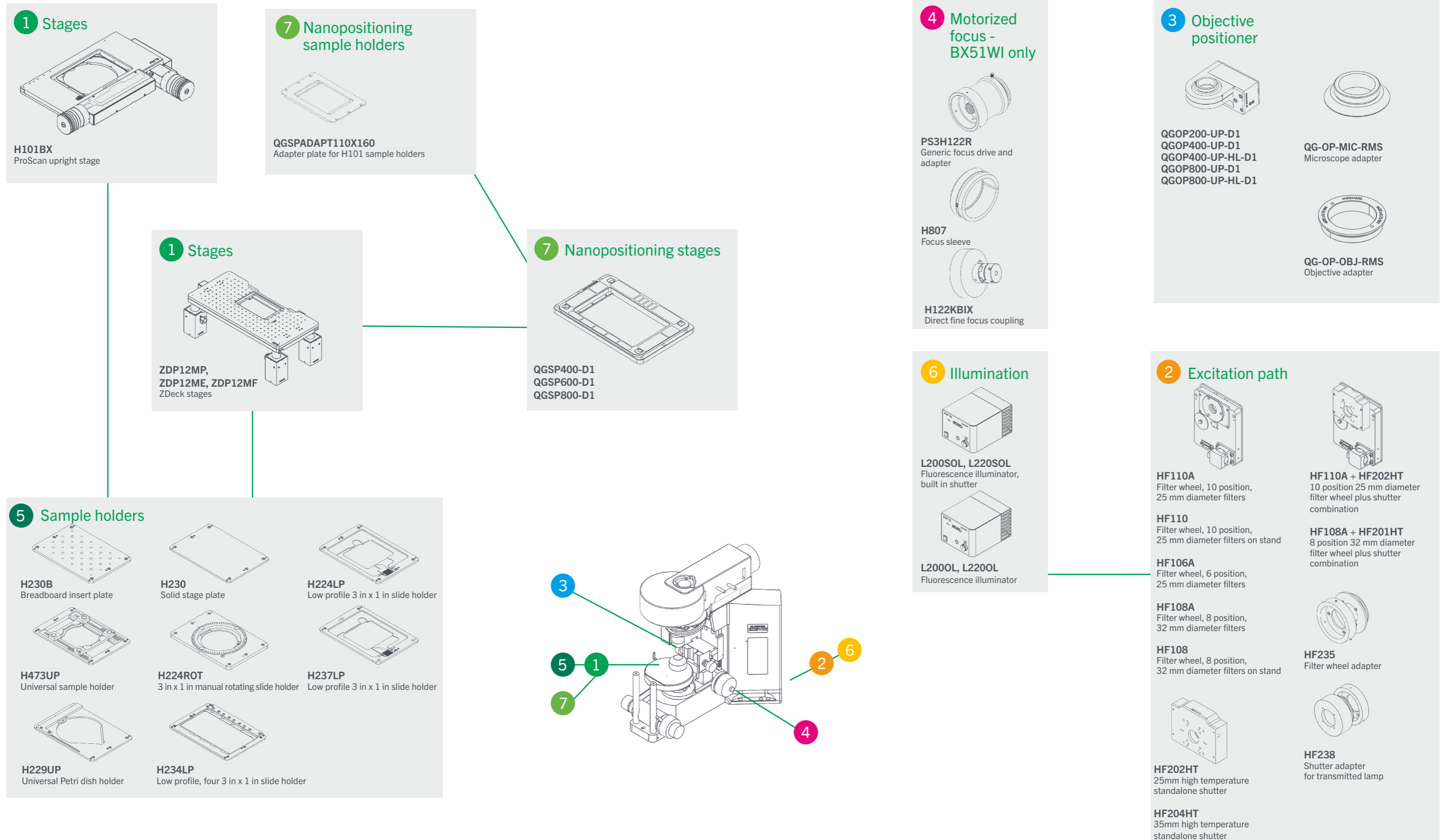


Evident/Olympus BX51WI/ BX61WI configuration chart



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 H101BX 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
H101BX	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 μ m travel, and NPC-D-6110 controller
QGSP600-D1	System SP600, 600 μ m travel, and NPC-D-6110 controller
QGSP800-D1	System SP800, 800 μ m 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
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-RM	OP objective adapter M32 x 0.75 to RMS
QG-OP-SPACE-RMS	RMS static objective spacer to align with OP400 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.

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

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

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