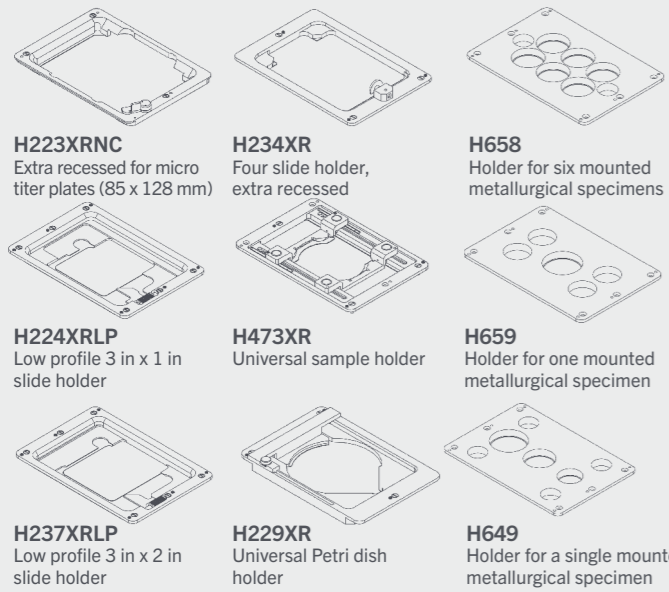
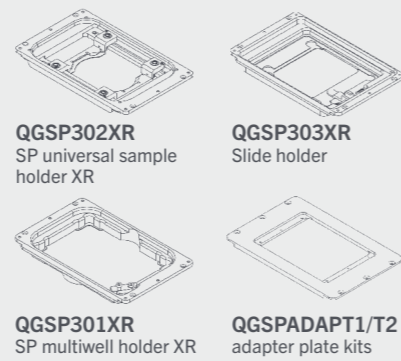


Nikon TE2000 configuration chart

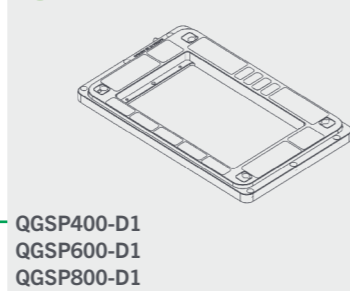
6 Sample holders



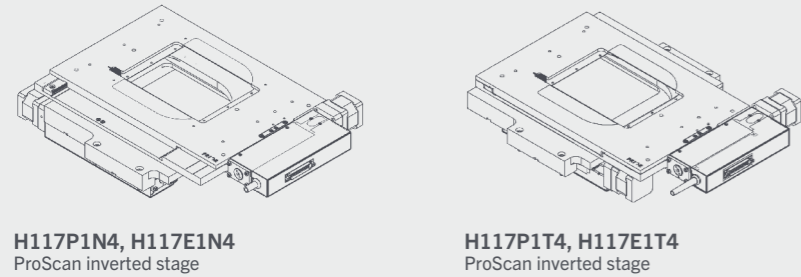
9 Nanopositioning sample holders



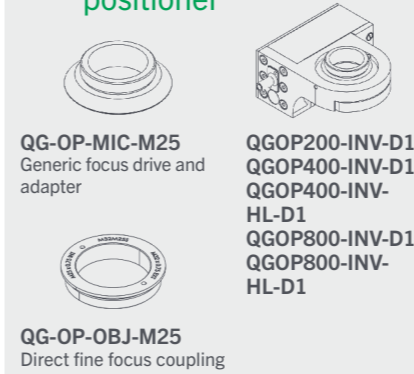
9 Nanopositioning stages



1 Stages



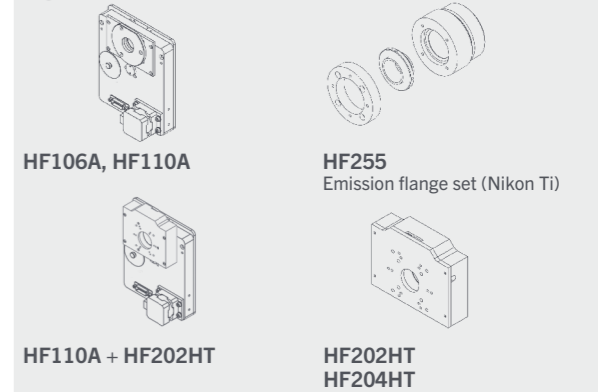
3 Objective positioner



5 Motorized focus



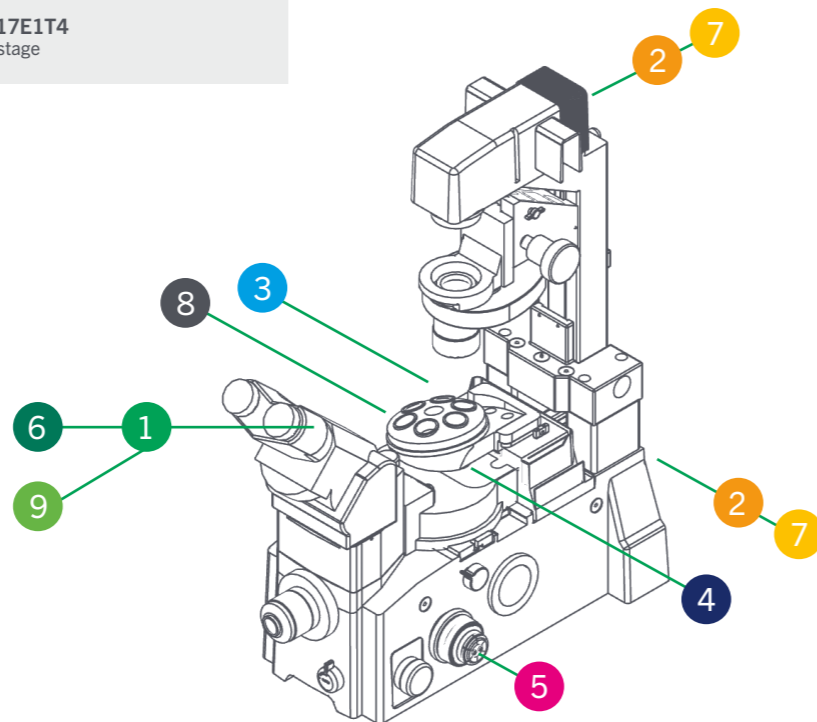
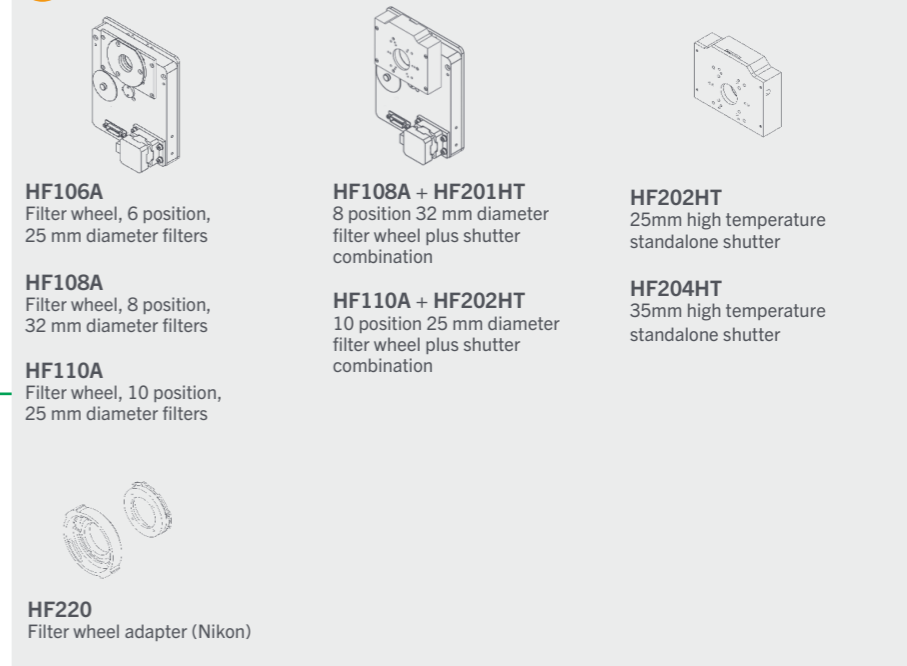
8 Emission path



7 Illumination



2 Excitation path



See the following pages for more product information.

Nikon TE2000 configuration guide

The Nikon TE2000 is an older generation inverted microscope. Prior Scientific can provide multiple upgrades for this microscope.

Motorized XY stages and sample holders

All the sample holders listed are compatible with the H117P1N4, H117E1N4, H117P1T4, and H117E1T4. At least one sample holder is required. Nikon TE2000s with a non-motorized filter turret can be fitted with the H117P1N4 and H117E1N4. Nikon TE2000s with a motorized filter turret can only be fitted with the H117P1T4 and H117E1T4. An OptiScan alternative (ES107NTE) to the H117P1T4/H117E1T4 is available.

Part	Description
H117P1N4	ProScan inverted stage, part encoded, 1 mm pitch, 400 step, Nikon TE2000 non-motorized filter turret
H117E1N4	ProScan inverted stage, encoded, 1 mm pitch, 400 step, Nikon TE2000 non-motorized filter turret
H117P1T4	ProScan inverted stage, part encoded, 1 mm pitch, 400 step, Nikon TE2000
H117E1T4	ProScan inverted stage, encoded, 1 mm pitch, 400 step, Nikon TE2000
H473XR	Universal sample holder (slides, Petri dishes, small flasks), extra recessed
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, 15 in diameter with 1, 2, 4, or 8 chambers

Nanopositioning stages and sample holders

Nanopositioning stages require a suitable motorized stage for mounting. They can be directly mounted to the H117P1N4, H117P1T4, H117E1T4 and H117E1N4. They can be mounted on some Nikon stages via the QGSPADAPT1 adapter; please contact Prior Scientific to verify your stage model is compatible. Other motorized stage models are not compatible. Note that a sample holder from the nanopositioning stage section is required for use and replaces the sample holder fitted to the motorized stage. Prior Scientific nanopositioning stages can be controlled via NIS Elements by serial port connection. Alternative Prior Scientific/Queensgate manufactured nanopositioning stages can also be purchased exclusively from Nikon.

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 x3 in and 2 in x3 in slides
QGSPADAPT1	SP400 to Nikon Ti2 motorized stage adapter plate kit
QGSPADAPT2	SP400 to HLD117NN adapter plate kit

Objective positioners and adapters

When ordering, ensure the correct part number is used to specify inverted calibration. Objective positioners require a threaded adapter to fit the microscope nosepiece and the microscope objective. Nikon microscopes typically use M25 threads; please contact Prior Scientific if the nosepiece uses an alternative thread size. Some TE2000 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. These spacers are also used to ensure any other objectives are parfocal. 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. Prior objective positioners can be controlled via NIS Elements by serial port connection. Alternative Prior Scientific/Queensgate manufactured objective positioners can also be purchased exclusively from Nikon.

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-M25	OP microscope adapter M25 x 0.75
QG-OP-OBJ-M25	OP objective adapter M32 x 0.75 to M25 x 0.75
QG-OP-SPACE-M25	M25 x 0.75 static objective spacer to align with OP400 objective

Motorized focus

The PS3H122R plus H2975 combination is required to drive the fine focus knob of the microscope. The coarse focus will not be motorized. The H122KN2K 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
H2193	Nikon TE2000 focus sleeve
H122KN2K	Direct coupling kit, focus drive assembly

Illumination

The L200NI and L200SNI are recommended for fluorescence microscopy, [see datasheet for details](#). The L200SNI has a built-in shutter mechanism that can be controlled via a ProScan III controller, so a standalone shutter is not required.

Part	Description
L200SNI	L200 standard box, lamp, light guide, shutter and Nikon collimator
L200NI	L220 standard box, lamp, light guide and Nikon collimator
L220SNI	L220 standard box, lamp, light guide, shutter and Nikon collimator
L220NI	L220 standard box, lamp, light guide and Nikon 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, buying one of the combinations listed above is recommended. The HF227 adapter is required for filter wheels and shutters in the main episcopic illumination pathway.

Part	Description
HF227	Filter wheel adapter (Nikon)
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
HF106A	Filter wheel, 6 position, 25 mm diameter filters without 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 HF255 adapter is required for fitting shutter and filter wheels to the emission port of the microscope. 32 mm shutters and filter wheels are recommended for widefield applications.

Part	Description
HF227	Filter wheel adapter for Nikon Eclipse TE2000 series microscopes.
HF202HT	25mm high temperature standalone shutter
HF204HT	High speed shutter (high temperature), 32 mm aperture, for stand alone use
HF110A	Filter wheel, 10 position, 25 mm diameter filters without stand
HF106A	Filter wheel, 6 position, 25 mm diameter filters without stand
HF110A + HF200HT	10 position 25 mm diameter filter wheel plus shutter combination