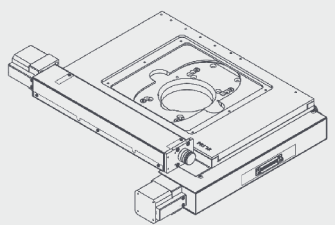
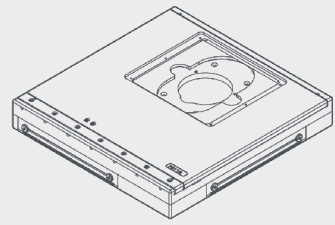


Nikon L200 configuration chart

1 Stages

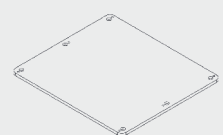


H105/2NI, HE05/2
ProScan stage NI

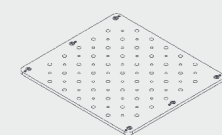


H105N2F, H105E2F
ProScan stage

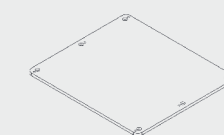
6 Sample holders



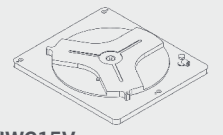
H227
Glass stage plate assembly



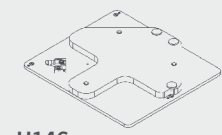
H231B
Breadboard stage insert assembly



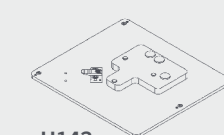
H231
Aluminum stage plate assembly




HWC15V
Wafer chuck rot + vac 150 mm



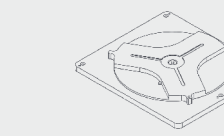
H146
Wafer chuck, 150 mm sprung



H143
Wafer chuck spring loaded 3 in

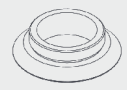


H2100
Stage spacer




HWC15S
Wafer chuck (4 in & 6 in wafers)

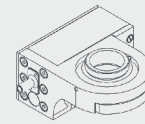
3 Objective positioner



QG-OP-MIC-M25
QG-OP-MIC-M32
Microscope adapter

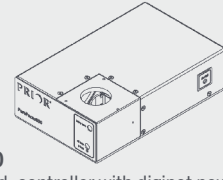


QG-OP-OBJ-M25
Objective adapter




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

4 Autofocus



PF850
PF head, controller with digipot power supply



LF320
PF850 flange set

5 Motorized focus

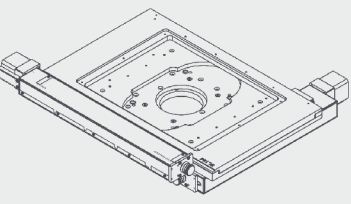


PS3H122R
Generic focus drive and adapter

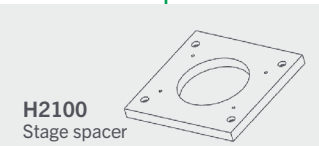


H3909
Focus sleeve

1 Stages

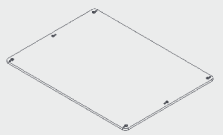


H116/2-8, HE16/2-8
ProScan stage for up to 8 inch diameter wafers

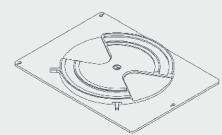


H2100
Stage spacer

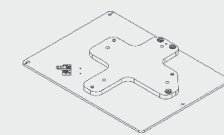
6 Sample holders



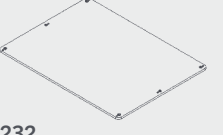
H225
Glass stage plate assembly




HWC20S
Wafer chuck, rotating



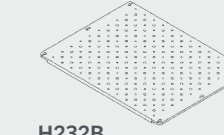
H149, H149N
Wafer chuck



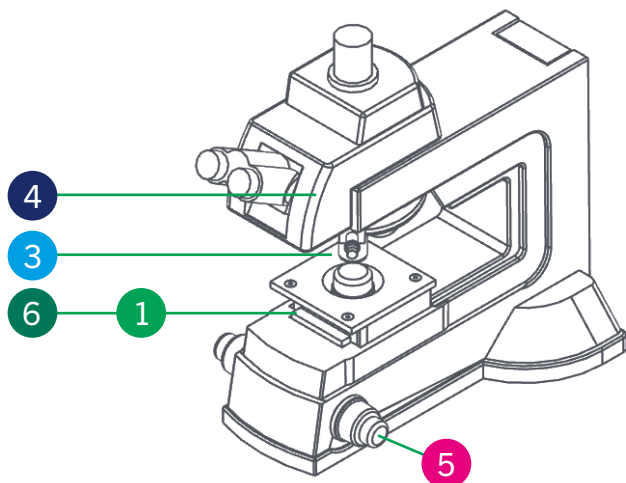
H232
Aluminum stage plate assembly



HWC20V
Wafer chuck, rotating, vacuum



H232B
Breadboard stage insert



Nikon L200 configuration guide

The Nikon L200 industrial microscope is designed primarily for 8-inch wafer scanning. The L200N uses episcopic illumination, and the L200ND uses episcopic and diasopic illumination. Neither model is motorized. Prior Scientific can offer several motorization options for both systems.

Motorized XY stages and sample holders

The H116/2-8 and HE16/2-8 are the largest format stages available for the L200 systems and offer up to 10 in x 8 in on travel. Contact Prior Scientific if using a 100x objective with the HE16/2-8 as this may restrict the available travel range depending on the chosen sample holder. The H105/2NI, HE05/2NI, H105N2F, and H105E2F are also available for smaller wafers. All stages require the H2100 adapter plate. The H105N2F and H105E2F feature a flat top design for easy loading. The HWC20V and HWC15V are fitted with a vacuum nozzle, but no vacuum pump system is supplied. Other smaller stages from Prior are compatible with the L200; please get in touch with Prior Scientific to learn more. The H2100 adapter is required when using non-wafer chuck sample holders. Prior Scientific can also supply stages with dedicated vacuum shuttle systems compatible with Nikon wafer loading systems e.g., NWL200.

Part	Description
H105/2NI	ProScan stage, 154 x 154 mm travel, part encoded, 2 mm pitch, 200 step, Nikon
HE05/2NI	ProScan stage, 154 x 154 mm travel, encoded, 2mm Pitch, 200 step, Nikon
H105N2F	ProScan stage, 154 x 154 mm travel, non-encoded, 2 mm pitch, 200 step, Nikon
H105E2F	ProScan stage, 154x 154 mm travel, encoded, 2 mm pitch, 200 step, Nikon
H2100	Stage spacer (H105/116 to L200)
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 in and 6 in wafers)
HWC15V	Wafer chuck rot + vac 150 mm/H105

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

Part	Description
H116/2-8	ProScan stage, 255 x 215 mm travel, part encoded, 2 mm pitch, 200 step, Nikon
HE16/2-8	ProScan stage, 255 x 215 mm travel, encoded, 2 mm pitch, 200 step, Nikon
H2100	Stage spacer (H105/116 to L200)
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/200mm, 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 inverted calibration. Objective positioners require a threaded adapter to be fitted to the microscope nosepiece and the microscope objective. Nikon L300 microscopes use M25 or M32 threads depending on the nosepiece fitted. Some L200 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; additional positions may be unusable on smaller nosepieces. 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/Queensgate manufactured objective positioners can also be purchased exclusively from Nikon.

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

Motorized focus

The PS3H122R plus H3909 combination is required to drive the fine focus knob of the L200 microscope. The coarse focus will not be motorized.

Part	Description
PS3H122R	Generic focus drive and adapter with rotating cable system preventing cable twisting
H3909	Focus adapter (Nikon LV100)

Autofocus

The PF850 is standalone hardware autofocus. The PF850 should be mounted above the fluorescence turret in most cases. For fluorescence systems, please contact Prior Scientific if the dichroics are known to block 850 nm wavelength light. The PF201, PF209 and PF300 are required for setup and maintenance. The PF404 is required for use with piezo nanopositioning systems. The PF850M is recommended for most semiconductor scanning applications. Discuss your samples with Prior Scientific before ordering.

Part	Description
PF850	PF head, controller with digipot power supply, cables
PF850M	PF head, controller with digipot power supply, cables
LF320	PF850 flange set (Nikon)
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