

96-Well Plate XY Stage Kits (Page 1 of 2)

Like our XY Microscopy Stage Kits, Thorlabs offers 96-Well Plate XY Stage Kits, which include our MAX202 and MAX203 96-Well Plate Stages. A sample stage insert (see facing page) can be used with the MAX202 and MAX203 stages to mount standard microscope slides and Ø35 mm Petri dishes. With the excellent repeatability of the MAX series of microscopy stages, it is possible to scan a well or sample region, move to a different well or sample region, and then return to the initial position and repeat the scan in order to check on the evolution of the sample.

The MAX203 differs from the MAX202 in that a precision glass scale linear encoder has been added to each stepper motor. The encoder improves the accuracy with which the sample can be positioned from 5 µm to 1 µm. The stepper motors in all of the MAX series of microscopy stages have 200 steps per revolution. The BCS102 high-precision two-channel stepper motor controller (see following page) is included with the stage kits and is capable of taking 128 microsteps for every full step. This results in 25,600 microsteps per revolution, which leads to a linear microstep size of 40 nm, the resolution of the MAX series of microscopy stages.

MAX203
Fitted With a 96-Well Plate and Mounted to an Olympus IX71 Microscope



SPECIFICATIONS	MAX202 (OPEN-LOOP)	MAX203 (CLOSED-LOOP)
Travel	70 mm x 105 mm (2.75" x 4")	
Maximum Speed	10 mm/s	
Accuracy	5 µm	1 µm
Repeatability (Unidirectional)	1 µm	
Resolution (Microstep Size)	40 nm	
Load Capacity (Max)	5 kg	
Cable Included	PAA613	PAA628
Compatible with Olympus IX	Yes	
Compatible with Zeiss Axiovert 200	Yes	
Compatible with Nikon TE2000*	Yes	

*Nikon Stage Kits include the MAX200A1 adapter which is necessary to mount any of the MAX200 Series stages to the Nikon TE2000 microscope.

Features

- Compact, Low-Profile Design
- 70 mm x 105 mm (2.75" x 4.13") of XY Travel
- Kits Available for Select Olympus, Nikon, and Zeiss Microscopes
- Stage Directly Accepts Standard 96-Well Plates
- Encoded and Non-Encoded Versions Available
- Compatible with SCXY100 High-Speed Piezo Stage
- Includes BCS102 Controller

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MAX200 Series Controller

NEW
versions



BSC102
(Included with
Microscopy Stage Kits)

Specifications

- **Input/Output:**
 - Motor Drive Channel (15-Pin D-Type Female)
 - 2-Phase Bipolar Motor Drive Output
 - Differential Quadrature-Encoder Interface
 - Forward/Reverse Limit Switch Inputs
 - Motor Control (15-Pin D-Type Female)
 - Jog Forward/Back
 - Enable/Disable Interlock
 - User Logic Outputs/Inputs
 - Single-Ended Analog Input (0-10 V)
 - Trigger In/Out
- **Motor Power:** Up to 48 V/50 W (peak)
- **Resolution:**
 - 128 Microsteps per Full Step
 - 200 Step Motor: 25,600 Microsteps/Revolution
- **Input Power Requirements:**
 - Voltage: 85-264 VAC
 - Power: 200 W
 - Fuse: 3.15 A
- **Motor Speeds:** Up to 600 RPM (for 200 Full Step Motor)
- **Encoder Feedback Bandwidth:** 500,000 counts/sec
- **Housing Dimensions (W x D x H):** 240 mm x 360 mm x 133 mm (9.5" x 14.2" x 5.2")

Olympus IX Series-Compatible 96-Well Plate XY Stage Kits with Controller

ITEM#	\$	£	€	RMB	DESCRIPTION
MAX202B	\$ 5,950.00	£ 4,125.00	€ 5,283.00	¥ 50,242.00	96-Well Plate XY Stage and Controller, 5 µm Accuracy
MAX203B	\$ 9,950.00	£ 6,898.00	€ 8,834.00	¥ 84,019.00	96-Well Plate XY Stage and Controller, 1 µm Accuracy

Nikon TE2000 Series-Compatible 96-Well Plate XY Stage Kits with Controller and Adapter

ITEM#	\$	£	€	RMB	DESCRIPTION
MAX202B-NIK	\$ 5,950.00	£ 4,125.00	€ 5,283.00	¥ 50,242.00	96-Well Plate XY Stage, Controller, and Adapter, 5 µm Accuracy
MAX203B-NIK	\$ 9,950.00	£ 6,898.00	€ 8,834.00	¥ 84,019.00	96-Well Plate XY, Controller, and Adapter, 1 µm Accuracy

Zeiss Axiovert200 Series-Compatible 96-Well Plate XY Kits with Controller

ITEM#	\$	£	€	RMB	DESCRIPTION
MAX202B	\$ 5,950.00	£ 4,125.00	€ 5,283.00	¥ 50,242.00	96-Well Plate XY Stage and Controller, 5 µm Accuracy
MAX203B	\$ 9,950.00	£ 6,898.00	€ 8,834.00	¥ 84,019.00	96-Well Plate XY Stage and Controller, 1 µm Accuracy

Sample Holders for 96-Well Plate XY Stage Kits

Microscope Slide and Petri Dish Holder: MAX200P6

- Compatible with MAX202 and MAX203 Stages
- Clip Holder to Secure Samples
- Accepts Standard Microscope Slides and Ø35 mm Petri Dishes
- Dimensions: 86 mm x 143 mm x 2 mm (3.4" x 5.65" x 0.08")



MAX200P6



SCXYZ100B

Microscan Piezo XYZ Slide Holder and Controller: SCXYZ100B

- Piezo-Driven Sample Holder Compatible with All MAX Series Stages
- 25 nm Positioning Resolution
- 100 µm of X- and Y-Axis Travel
- 80 µm of Z-Axis Travel
- Includes BPC203 3-Axis Piezo Controller (See Page 568)

ITEM#	\$	£	€	RMB	DESCRIPTION
MAX200P6	\$ 190.00	£ 131.80	€ 168.70	¥ 1,604.40	Microscope Slide Holder for MAX202 and MAX203 Stages
SCXYZ100B	\$ 9,990.00	£ 6,926.00	€ 8,870.00	¥ 84,356.00	Piezo XYZ Slide Holder and Controller, 25 nm Accuracy