

PerformancePlus Series of Optical Tabletops (Page 1 of 2)

The PerformancePlus Series of optical tables features the same damping materials and design as the Performance series range but offers increased stiffness when compared to the Performance Series models due to the increased thickness [12.2" (310 mm) versus 8.3" (210 mm)]. Choose a Plus version of a table if your application would benefit from reduced compliance at a given frequency. All Thorlabs' tabletops offer the highest levels of surface flatness available, high dynamic stiffness, and low relative tabletop motion.



The PTQ12113 optical table is shown with the PTS502 self-leveling isolation system shown on page 63.

Table Supports Sold Separately
For our full line of vibration-isolation systems, see pages 59-66.

US Patent 5402734

Performance Series – Additional Damping Outperforms Other Manufacturers' Best Tables but at a Competitive Price

Features

- Flatness: ± 0.004 " (± 0.1 mm) Over any 11.0 ft² (1 m²) Area
- Construction: Triple-Plated, Double Honeycomb Core
- Proprietary Tuned and Broadband Damping
- Dynamic Deflection Coefficient: $< 0.7 \times 10^{-3}$

 **Mechanical**
Drawings Available on the
WEB

Specifications

- **Table Thickness:** 12.2" (310 mm)
- **Flatness:** ± 0.004 " (± 0.1 mm) Over Any 11.0 ft² (1 m²) Area
- **Construction:** Triple-Plated, Double Honeycomb Core
- **Top and Bottom Plates**
 - Matched Materials for Athermalized Design
 - Magnetic Stainless Steel, 5 mm Thick
 - Top Plate is Brush Finished
- **Main Core:** High-Density, Plated Steel Honeycomb
- **Intermediate Core:** Plated Steel Sealing Cup Honeycomb Structure, 0.5" (13 mm) Thick
- **Sides:** Black, Laminated-Steel Sides, Slightly Inset
- **Screw Length (Max):** 5/8" (16 mm)
- **Mounting Hole Pattern**
 - Metric: M6 x 1.0 on 25 mm Centers
 - Imperial: 1/4"-20 on 1" Centers
- **Edge to First Hole Center**
 - Metric: 50 mm on All Sides
 - Imperial Models (3.3' Wide): 2.0" on Ends and 2.68" on Sides
 - Imperial Models (4.1' Wide): 2.0" on Ends and 2.6" on Sides
 - Imperial Models (4.9' Wide): 2.0" on Ends and 2.52" on Sides
- **Dynamic Deflection Coefficient (Max):** $< 0.7 \times 10^{-3}$ *
- **Relative Table Motion (Max):** < 0.14 nm (5.5×10^{-9} in)*
- **Deflection Under Load:** 250 lb (113 kg): < 1.5 μ m (5.9×10^{-5} in)*

*Measured on a 4' x 8' x 12.2" table with isolator transmissibility $T < 0.01$ above 10 Hz, environmental vibrations PSD $< 10^{-9}$ g²/Hz.

PerformancePlus Series of Optical Tabletops (Page 2 of 2)

Imperial, PerformancePlus Series of Optical Tables, 1/4"-20 Mounting Holes

Call for Lead Time

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTQ12104	\$ 3,250.00	£ 2,253.00	€ 2,885.50	¥ 27,444.00	6' x 3.3' x 12.2"	745 lbs/338 kg
PTQ12108	\$ 3,530.00	£ 2,447.00	€ 3,134.00	¥ 29,808.00	6' x 4.1' x 12.2"	897 lbs/407 kg
PTQ12105	\$ 3,546.00	£ 2,458.00	€ 3,148.00	¥ 29,943.00	8' x 3.3' x 12.2"	1023 lbs/464 kg
PTQ12109	\$ 4,300.00	£ 2,981.00	€ 3,818.00	¥ 36,310.00	8' x 4.1' x 12.2"	1133 lbs/514 kg
PTQ12113	\$ 4,903.00	£ 3,399.00	€ 4,353.00	¥ 41,402.00	8' x 4.9' x 12.2"	1338 lbs/607 kg
PTQ12106	\$ 4,812.00	£ 3,336.00	€ 4,273.00	¥ 40,633.00	10' x 3.3' x 12.2"	1203 lbs/506 kg
PTQ12110	\$ 5,659.00	£ 3,923.00	€ 5,025.00	¥ 47,785.00	10' x 4.1' x 12.2"	1435 lbs/651 kg
PTQ12114	\$ 6,598.00	£ 4,574.00	€ 5,858.00	¥ 55,714.00	10' x 4.9' x 12.2"	1710 lbs/776 kg
PTQ12111	\$ 6,562.00	£ 4,549.00	€ 5,826.00	¥ 55,410.00	12' x 4.1' x 12.2"	1611 lbs/731 kg
PTQ12115	\$ 7,614.00	£ 5,279.00	€ 6,760.00	¥ 64,293.00	12' x 4.9' x 12.2"	2002 lbs/908 kg
PTQ12112	\$ 7,266.00	£ 5,037.00	€ 6,451.00	¥ 61,355.00	14' x 4.1' x 12.2"	1962 lbs/890 kg
PTQ12116	\$ 8,930.00	£ 6,191.00	€ 7,929.00	¥ 75,406.00	14' x 4.9' x 12.2"	2217 lbs/1066 kg

*Please contact your local sales office for a quotation including shipping.

Metric, PerformancePlus Series of Optical Tables, M6 x 1.0 Mounting Holes

Call for Lead Time

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTQ52504	\$ 3,250.00	£ 2,253.00	€ 2,885.50	¥ 27,444.00	2000 mm x 1000 mm x 310 mm	785 lbs/356 kg
PTQ52508	\$ 3,530.00	£ 2,447.00	€ 3,134.00	¥ 29,808.00	2000 mm x 1250 mm x 310 mm	981 lbs/445 kg
PTQ52505	\$ 3,546.00	£ 2,458.00	€ 3,148.00	¥ 29,943.00	2500 mm x 1000 mm x 310 mm	811 lbs/368 kg
PTQ52509	\$ 4,300.00	£ 2,981.00	€ 3,818.00	¥ 36,310.00	2500 mm x 1250 mm x 310 mm	1166 lbs/529 kg
PTQ52513	\$ 4,903.00	£ 3,399.00	€ 4,353.00	¥ 41,402.00	2500 mm x 1500 mm x 310 mm	1428 lbs/648 kg
PTQ52506	\$ 4,812.00	£ 3,336.00	€ 4,273.00	¥ 40,633.00	3000 mm x 1000 mm x 310 mm	1115 lbs/506 kg
PTQ52510	\$ 5,659.30	£ 3,924.00	€ 5,025.00	¥ 47,788.00	3000 mm x 1250 mm x 310 mm	1353 lbs/614 kg
PTQ52514	\$ 6,598.00	£ 4,574.00	€ 5,858.00	¥ 55,714.00	3000 mm x 1500 mm x 310 mm	1644 lbs/746 kg
PTQ52511	\$ 6,562.00	£ 4,549.00	€ 5,826.00	¥ 55,410.00	3750 mm x 1250 mm x 310 mm	1660 lbs/753 kg
PTQ52515	\$ 7,614.00	£ 5,279.00	€ 6,760.00	¥ 64,293.00	3750 mm x 1500 mm x 310 mm	2050 lbs/930 kg
PTQ52512	\$ 7,266.00	£ 5,037.00	€ 6,451.00	¥ 61,355.00	4250 mm x 1250 mm x 310 mm	1155 lbs/524 kg
PTQ52516	\$ 8,930.00	£ 6,191.00	€ 7,929.00	¥ 75,406.00	4250 mm x 1500 mm x 310 mm	1995 lbs/905 kg

*Please contact your local sales office for a quotation including shipping.

Multichannel Fiber-Coupled Laser Source

NEW
product

Features

- Ideal for Multichannel Fluorescence Imaging
- 4 Laser Output Channels
- Independent Temperature Control Gives High Temperature Stability
- USB Interface
- Choose Any Combination of Wavelengths



Thorlabs' 4-Channel, Fiber-Coupled Laser Source provides easy access to multiple wavelengths of single mode (SM) fiber-coupled light. The laser source is configured to accept any combination of four SM fiber-pigtailed laser diodes; choose from the following wavelengths: 406, 473, 488, 635, 658, 670, 785, 808, 850, 904, 980, 1310, 1550 nm. More wavelengths will be made available in the future. Please check our website for the latest details.

Each fiber-pigtailed laser diode is operated from an independent, high-precision, low-noise, constant-current source and temperature control unit. An intuitive front-panel interface allows the user to view and set operating parameters for each laser. The display indicates the selected channel number, output wavelength, operating power, and operating temperature of the laser diode.

This device includes a microcontroller to monitor the system for fault conditions and to fully control the laser's optical power and temperature. The laser source includes a USB connection that allows remote adjustment of power, temperature, and enabling. On the rear panel, analog inputs are available to modulate the lasers with an external signal.



See Pages 1062-1063