

## UltraPlus Series of Optical Tabletops (Page 1 of 2)

The UltraPlus Series of optical tables feature the same damping materials and design techniques as the Ultra Series but offer increased stiffness when compared to Ultra Series models due to the increased thickness [12.2" (310 mm) compared to 8.3" (210 mm)]. Choose a Plus version 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, making them the obvious choice for any demanding scientific application.



The PTR12113 optical table is shown with the PTS502 self-leveling isolation system, see page 63.

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

**For the Most  
Demanding  
Applications!**

US Patent 5402734

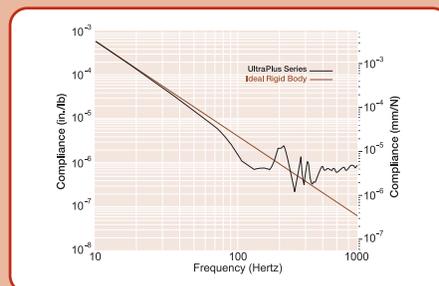
### UltraPlus Series – For the Most Demanding Research Applications. The Ultimate in Performance and Quality

#### Features

- Flatness:  $\pm 0.004"$  ( $\pm 0.1$  mm) Over any 11.0 ft<sup>2</sup> (1 m<sup>2</sup>) Area
- Construction: Triple-Plated, Double-Honeycomb Core
- Maximum Proprietary Tuned and Broadband Damping
- Dynamic Deflection Coefficient:  $< 0.5 \times 10^{-3}$

#### Specifications

- **Table Thickness:** 12.2" (310 mm)
- **Flatness:**  $\pm 0.004"$  ( $\pm 0.1$  mm) Over any 11.0 ft<sup>2</sup> (1 m<sup>2</sup>)
- **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
- **Mounting Hole Pattern:**
  - Metric: M6 x 1.0 on 25 mm Centers
  - Imperial: 1/4"-20 on 1" Centers



Typical Compliance Curve for the UltraPlus Series – Measured at Table Corner

- **Edge to First Hole Center**
  - Metric: 50 mm on All Sides
  - Imperial Models (3.3' Wide): 2.0" on Ends and 2.86" 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
- **Maximum Screw Length:** 5/8" (16 mm)
- **Dynamic Deflection Coefficient (Max):**  $< 0.5 \times 10^{-3}$
- **Relative Table Motion (Max):**  $< 0.10$  nm ( $4 \times 10^{-9}$  in)\*
- **Deflection Under Load:** 250 lb (113 kg):  $< 1.5$   $\mu$ m ( $5.9 \times 10^{-3}$  in)\*

\*Measured on a 4' x 8' x 12.2" table with isolator transmissibility  $T < 0.01$  above 10 Hz, environmental vibrations PSD  $< 10^{-9} g^2/Hz$ .

## UltraPlus Series of Optical Tabletops (Page 2 of 2)

Imperial, UltraPlus Series of Optical Tables, 1/4"-20 Mounting Holes **Stocked in USA for Immediate Delivery**

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTR12109	\$ 5,267.00	£ 3,652.00	€ 4,677.00	¥ 44,475.00	8' x 4.1' x 12.2"	1245 lbs/565 kg

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

Imperial, UltraPlus Series of Optical Tables, 1/4"-20 Mounting Holes **Call for Lead Time**

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTR12104	\$ 3,650.00	£ 2,530.50	€ 3,240.50	¥ 30,821.00	6' x 3.3' x 12.2"	829 lbs/376 kg
PTR12108	\$ 4,396.00	£ 3,048.00	€ 3,903.00	¥ 37,120.00	6' x 4.1' x 12.2"	985 lbs/447 kg
PTR12105	\$ 4,300.00	£ 2,981.00	€ 3,818.00	¥ 36,310.00	8' x 3.3' x 12.2"	1076 lbs/488 kg
PTR12113	\$ 6,059.00	£ 4,201.00	€ 5,380.00	¥ 51,163.00	8' x 4.9' x 12.2"	1479 lbs/671 kg
PTR12106	\$ 5,374.00	£ 3,726.00	€ 4,772.00	¥ 45,379.00	10' x 3.3' x 12.2"	1263 lbs/573 kg
PTR12110	\$ 6,123.00	£ 4,245.00	€ 5,437.00	¥ 51,703.00	10' x 4.1' x 12.2"	1578 lbs/716 kg
PTR12114	\$ 6,123.00	£ 4,245.00	€ 5,437.00	¥ 51,703.00	10' x 4.9' x 12.2"	1862 lbs/845 kg
PTR12111	\$ 7,373.00	£ 5,112.00	€ 6,546.00	¥ 62,258.00	12' x 4.1' x 12.2"	1805 lbs/819 kg
PTR12115	\$ 8,444.00	£ 5,854.00	€ 7,497.00	¥ 71,302.00	12' x 4.9' x 12.2"	2142 lbs/972 kg
PTR12112	\$ 8,282.00	£ 5,742.00	€ 7,353.00	¥ 69,934.00	14' x 4.1' x 12.2"	2230 lbs/1012 kg
PTR12116	\$ 9,551.00	£ 6,621.00	€ 8,480.00	¥ 80,649.00	14' x 4.9' x 12.2"	2576 lbs/1169 kg

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

Metric, UltraPlus Series of Optical Tables, M6 x 1.0 Mounting Holes **Stocked in UK for Immediate Delivery**

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTR52509	\$ 5,267.00	£ 3,652.00	€ 4,677.00	¥ 44,475.00	2500 mm x 1250 mm x 310 mm	1281 lbs/581 kg

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

Metric, UltraPlus Series of Optical Tables, M6 x 1.0 Mounting Holes **Call for Lead Time**

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTR52504	\$ 3,650.00	£ 2,530.50	€ 3,240.50	¥ 30,821.00	2000 mm x 1000 mm x 310 mm	822 lbs/373 kg
PTR52508	\$ 4,396.00	£ 3,048.00	€ 3,903.00	¥ 37,120.00	2000 mm x 1250 mm x 310 mm	1087 lbs/493 kg
PTR52505	\$ 4,300.00	£ 2,981.00	€ 3,818.00	¥ 36,310.00	2500 mm x 1000 mm x 310 mm	1042 lbs/473 kg
PTR52513	\$ 6,059.00	£ 4,201.00	€ 5,380.00	¥ 51,163.00	2500 mm x 1500 mm x 310 mm	1378 lbs/625 kg
PTR52506	\$ 5,374.00	£ 3,726.00	€ 4,772.00	¥ 45,379.00	3000 mm x 1000 mm x 310 mm	1265 lbs/574 kg
PTR52510	\$ 6,123.00	£ 4,245.00	€ 5,437.00	¥ 51,703.00	3000 mm x 1250 mm x 310 mm	1485 lbs/674 kg
PTR52514	\$ 6,123.00	£ 4,245.00	€ 5,437.00	¥ 51,703.00	3000 mm x 1500 mm x 310 mm	1419 lbs/644 kg
PTR52511	\$ 7,373.00	£ 5,112.00	€ 6,546.00	¥ 62,258.00	3750 mm x 1250 mm x 310 mm	1937 lbs/879 kg
PTR52515	\$ 8,444.00	£ 5,854.00	€ 7,497.00	¥ 71,302.00	3750 mm x 1500 mm x 310 mm	1779 lbs/807 kg
PTR52512	\$ 8,282.00	£ 5,742.00	€ 7,353.00	¥ 69,934.00	4250 mm x 1250 mm x 310 mm	2103 lbs/954 kg
PTR52516	\$ 9,551.00	£ 6,621.00	€ 8,480.00	¥ 80,649.00	4250 mm x 1500 mm x 310 mm	2627 lbs/1192 kg

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

## Four-Channel Modulated LED Driver and Sources

### Features

- Driver Controls up to 4 Individual LEDs
- LED Current Range: 0 - 1000 mA
- Modulation Frequency: 0 - 100 kHz
- Three 4-Color LED Source Combinations
  - 455, 530, 590, 627 nm
  - 405, 470, 530, 617 nm
  - 505, 590, 617, 660 nm



High-Power  
4-Channel Driver

**NEW**  
products



Four-Color  
LED Source

Our new four-channel modulating controller is designed for microscopy and other applications requiring multiple, modulated, high-power LED sources. The controller can drive four high-power LEDs simultaneously, either with an externally modulated current or with a constant current. Each channel can be adjusted independently from 0 to 1 A.

We offer three preselected source combinations that combine four different wavelength LED sources into a single collimated beam. Together with the four-channel driver, the series of four-color LED sources form a reliable, versatile light source that offers fast switching and accurate modulation of each individual LED. Adapters for Olympus, Nikon, Zeiss, and Leica microscopes are also available.

**See Pages 1105-1106**