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## 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 PTS602 self-leveling isolation system (see pages 67 - 68).

Table Supports Sold Separately. For Our Full Line of Vibration-Isolation Systems, See Pages 63 - 68.

**For the Most Demanding Applications!**

US Patent 5402734

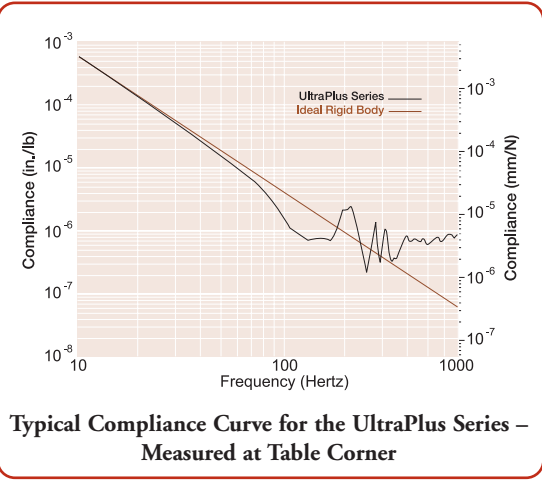
### UltraPlus Series – For the Most Demanding Research Applications. The Ultimate in Performance and Quality

#### 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-Skin, Steel, 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-Skin, Steel, Double-Honeycomb Core
- **Top and Bottom Skins**
  - Matched Materials for Athermalized Design
  - Magnetic Stainless Steel, 5 mm Thick
  - Top Skin is Brushed Finish
- **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 2.68" 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
- **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:**  $< 1.5$   $\mu$ m ( $5.9 \times 10^{-5}$  in) for a 250 lb (113 kg) Load\*

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

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

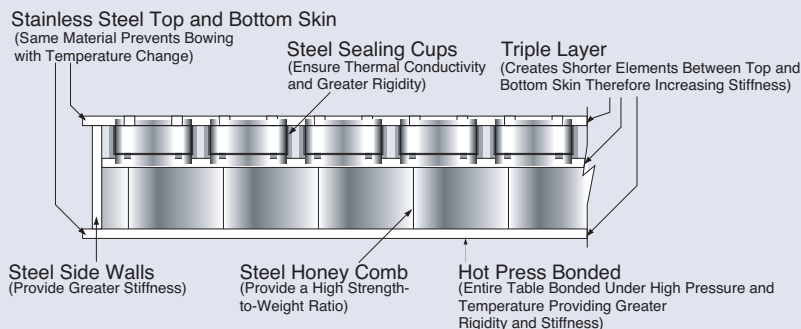
### Additional Size Options Available

The imperial and metric UltraPlus Series of Optical Tables featured on these two pages are stocked for immediate shipment. However, Thorlabs also has the tooling and supplies necessary to manufacture numerous other sizes, including 8.3" (210 mm) thick versions, quickly and efficiently with minimal lead time.

Please visit [www.thorlabs.com](http://www.thorlabs.com) to view our non-standard size options and to place an order. Finally, in addition to these stocked and non-stocked optical table options, Thorlabs can produce truly custom optical tables that offer unique cutouts, hole patterns, and dimensions. Please contact tech support to discuss your application needs.

### UltraPlus Series

Table with Triple-Skin, Double-Honeycomb Core Including Sealed Mounting Holes.



### 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	\$ 5,932.30	£ 4,271.26	€ 4,567.90	¥ 47,280.43	8' x 4.1' x 12.2"	1311 lbs/596 kg
PTR12108	\$ 4,344.20	£ 3,127.82	€ 3,345.00	¥ 34,623.27	6' x 4.1' x 12.2"	1001 lbs/455 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	\$ 6,122.50	£ 4,408.20	€ 4,714.30	¥ 48,796.33	2500 mm x 1250 mm x 310 mm	1339 lbs/609 kg
PTR52514	\$ 9,051.80	£ 6,517.30	€ 6,969.90	¥ 72,142.85	3000 mm x 1500 mm x 310 mm	1912 lbs/869 kg
PTR52504	\$ 4,109.00	£ 2,958.48	€ 3,163.90	¥ 32,748.73	2000 mm x 1000 mm x 310 mm	871 lbs/396 kg
PTR52508	\$ 4,999.40	£ 3,599.57	€ 3,849.50	¥ 39,845.22	2000 mm x 1250 mm x 310 mm	1078 lbs/490 kg

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

Have you seen our...

## Optical Spectrum Analyzers



OSA201, OSA203

ITEM #	OSA101	OSA103
Wavelength Range	350 - 1100 nm	1000 - 2500 nm
Resolution	10 pm @ 633 nm 0.25 cm <sup>-1</sup>	60 pm @ 1550 nm 0.25 cm <sup>-1</sup>
Wavelength Accuracy	<1 pm	
Measurement Rate	2 Hz	

Thorlabs' new line of Optical Spectrum Analyzers (OSAs), which are based on a Fourier Transform Spectrometer design, provide a fiber-based solution to quickly and easily resolve wavelength and spectral characteristics in the visible and near infrared spectral ranges. Optimized for use with light sources in either the 350 to 1100 nm (OSA201) or 1000 to 2500 nm (OSA203) range, these OSAs provide high resolution, high signal-to-noise performance, and excellent wavelength accuracy in a simple, efficient design.

See pages 1600 - 1603