

Ultra Series of Optical Tabletops (Page 1 of 2)

The ultimate table for the most demanding research applications, Thorlabs' Ultra Series of tables employ maximum tuned and broadband damping, producing an extremely low deflection coefficient.

Triple-plated, double-honeycomb technology produces the most rigid composite tables in the industry. The outer skins are thermally matched with the internal plate to minimize bowing due to temperature variations and cycling and to ensure the flatness of the table is maintained. Mounting holes are sealed, simplifying the cleanup of spills.



The PTR11108 optical table is shown with the PTS503 self-leveling isolation system shown on page 63.

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

Ultra-Stable

US Patent 5,402,734

Ultra Series – For the Most Demanding Research Applications

Features

- Flatness: $\pm 0.004''$ (± 0.1 mm) Over any 11.0 ft² (1 m²) Area
- Construction: Triple-Plated, Double Honeycomb Core
- Maximum Proprietary Tuned and Broadband Damping
- Dynamic Deflection Coefficient: $< 0.5 \times 10^{-3}$
- Steel Sealing Cups

Specifications

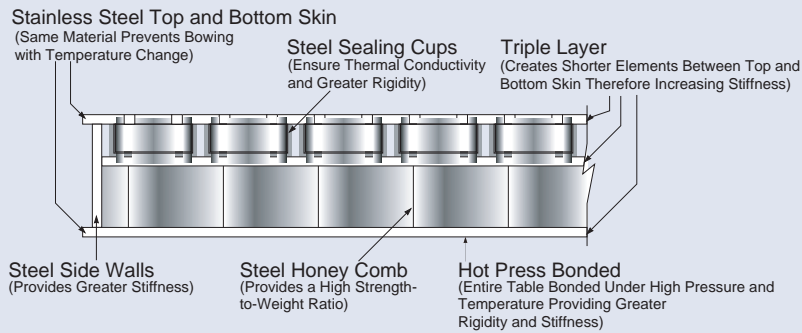
- **Table Thickness:** 8.3" (210 mm)
- **Flatness:** $\pm 0.004''$ (± 0.1 mm) Over Any 11.0 ft² (1 m²) Area
- **Construction:** Triple-Plated, Double-Honeycomb Core
- **Top and Bottom Plates**
 - Matched Materials for Athermalized Design
 - Magnetic Stainless Steel, 5 mm Thick
 - Top Plate is Brush Finished
- **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
- **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
- **Maximum Screw Length:** 5/8" (16 mm)
- **Dynamic Deflection Coefficient (Max):** $< 0.5 \times 10^{-3}$
- **Relative Table Motion (Max):** < 0.10 nm (4×10^{-9} in)*
- **Deflection Under Load:** 250 lbs (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 $< 10^9$ g/Hz..

Ultra Series of Optical Tabletops (Page 2 of 2)

Ultra Series

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



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

Stocked in USA for Immediate Delivery

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTR11104	\$ 3,223.00	£ 2,234.00	€ 2,861,50	¥ 27,216.00	6' x 3.3' x 8.3"	644 lbs/292 kg
PTR11108	\$ 3,886.00	£ 2,694.00	€ 3,450,00	¥ 32,814.00	6' x 4.1' x 8.3"	833 lbs/378 kg

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

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

Call for Lead Time

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTR11105	\$ 4,102.10	£ 2,843.50	€ 3,642,00	¥ 34,639.00	8' x 3.3' x 8.3"	529 lbs/240 kg
PTR11109	\$ 4,719.00	£ 3,272.00	€ 4,190,00	¥ 39,848.00	8' x 4.1' x 8.3"	1056 lbs/479 kg
PTR11113	\$ 5,623.00	£ 3,898.00	€ 4,993,00	¥ 47,481.00	8' x 4.9' x 8.3"	692 lbs/314 kg
PTR11106	\$ 4,998.00	£ 3,465.00	€ 4,438,00	¥ 42,204.00	10' x 3.3' x 8.3"	974 lbs/442 kg
PTR11110	\$ 5,533.00	£ 3,836.00	€ 4,913,00	¥ 46,721.00	10' x 4.1' x 8.3"	1534 lbs/696 kg
PTR11114	\$ 6,159.00	£ 4,270.00	€ 5,469,00	¥ 52,007.00	10' x 4.9' x 8.3"	1192 lbs/541 kg
PTR11111	\$ 6,873.00	£ 4,765.00	€ 6,102,00	¥ 58,036.00	12' x 4.1' x 8.3"	1508 lbs/684 kg
PTR11115	\$ 7,694.00	£ 5,334.00	€ 6,831,00	¥ 64,969.00	12' x 4.9' x 8.3"	1938 lbs/881 kg

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

Metric, Ultra 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
PTR51504	\$ 3,223.00	£ 2,234.00	€ 2,861,50	¥ 27,216.00	2000 mm x 1000 mm x 210 mm	668 lbs/303 kg
PTR51508	\$ 3,886.00	£ 2,694.00	€ 3,450,00	¥ 32,814.00	2000 mm x 1250 mm x 210 mm	868 lbs/394 kg

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

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

Call for Lead Time

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTR51505	\$ 4,102.00	£ 2,843.50	€ 3,642,00	¥ 34,638.00	2500 mm x 1000 mm x 210 mm	886 lbs/402 kg
PTR51509	\$ 4,719.00	£ 3,272.00	€ 4,190,00	¥ 39,848.00	2500 mm x 1250 mm x 210 mm	1311 lbs/595 kg
PTR51513	\$ 5,623.00	£ 3,898.00	€ 4,993,00	¥ 47,481.00	2500 mm x 1500 mm x 210 mm	1347 lbs/611 kg
PTR51506	\$ 4,998.00	£ 3,465.00	€ 4,438,00	¥ 42,204.00	3000 mm x 1000 mm x 210 mm	1073 lbs/487 kg
PTR51510	\$ 5,533.00	£ 3,836.00	€ 4,913,00	¥ 46,721.00	3000 mm x 1250 mm x 210 mm	1285 lbs/583 kg
PTR51514	\$ 6,159.00	£ 4,270.00	€ 5,469,00	¥ 52,007.00	3000 mm x 1500 mm x 210 mm	1613 lbs/732 kg
PTR51511	\$ 6,871.00	£ 4,764.00	€ 6,101,00	¥ 58,019.00	3750 mm x 1250 mm x 210 mm	1459 lbs/662 kg
PTR51515	\$ 7,694.00	£ 5,334.00	€ 6,831,00	¥ 64,969.00	3750 mm x 1500 mm x 210 mm	1856 lbs/842 kg

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

AR-Coated Absorptive Neutral Density Filters



- AR Coating for Either 400-700 nm or 650-1050 nm
- Mounted or Unmounted Ø1" Versions
- 3 Optical Densities Available: 0.3, 1.0, or 2.0
- Ideal for Low-Power Applications (<1 W)

NEW
product

Our new Absorptive Neutral Density Filters, which have a broadband antireflection coating deposited on both faces, are designed to minimize the stray light reflections that potentially compromise measurements.



See Page 710