		Optomechanics
Free-Space Fiber Co	upler for Single Mode Fiber	CHAPTERS V Tables/ Breadboards
- KT110 Focusing Optic	 High-Precision Differential Adjusters Provide Submicron Translation 	Mechanics
XY Translation Mount 0.5 μm/Division	Accepts Microscope ObjectivesEasy-to-Follow Instructions and Alignment Tools	Optomechanic Devices
Adjustable Iris	The KT110 Fiber Coupler is designed to couple free-space laser beams into	
	cables that are terminated with FC or SMA connectors. (Fiber Patch Cables starting on page 843, and other connector adapters are available on page 129	9) Lab Supplies
	Many of our diffraction-limited aspheric lenses are directly compatible with Due to their superior performance, these optics replace the microscope object	
	traditionally used. For most free-space coupling applications we have found that the C230TMI	Ø1/2" Post Assemblies
	Lens, which has an equivalent microscope magnification of 35X, is an ideal This lens, which is available with three different BBAR coatings, is listed bel	first choice. Ø1" Post
	ordering convenience. Complete optical specifications can be found on page	
Fiber Optic Cable Z-Axis Translation Mount	ITEM# METRIC ITEM# \$ £ € RMB DESCRI	Mounting/Angle Brackets
	KT110 KT110/M \$ 904.50 £ 627.10 € 803.10 ¥ 7.637.70 Free-Space S	Single Mode Lab Platforms
TEM# \$ £ € RMB		Instrument Shelves
2230TME-A \$ 87.00 £ 60.40 € 77,30 ¥ 734.7	f = 4.5 mm Aspheric Lens, AR-Coated: 350-700 nm	hanical Lens Tubes
2230TME-B \$ 87.00 £ 60.40 € 77,30 ¥ 734.7 2230TME-C \$ 87.00 £ 60.40 € 77,30 ¥ 734.7	Versions	Available on the Cage Systems
ee page 635 for complete specifications		Optical Rails
Single Mode and Mul 05.6 mm and Ø9 mm	timode Fiber Coupler:	Mirror Mounts
he KT112 Fiber Coupler is specifically de	КТ112	Collimation Kinematic Mounts
iode into a fiber optic cable terminated wi	th FC or SMA connectors. (See our Fiber Translation Mount 0.5 um/Division	Optic Mount Fixed Mounts
Dptics Section starting on page 843 for FC		Translation

To compensate for variations in the mechanical emission point of the laser, a manual X-Y positioner is used to mount the laser package. A collimating lens mounted in a cage plate is used to collimate the laser output. To focus the collimated beam onto the fiber optic, another lens that has been mounted in a precision XY translator is employed. The final component in the system is the Z-translator, which accepts the FC- or SMA-terminated fiber optic cable.

- Accepts FC or SMA Fiber Cables
- 45% Typical Coupling Efficiency Measured with a HL6714G (10 mW, 670 nm) Laser Diode into an SM600 Single Mode Fiber (3.3 µm Core)
- High-Precision Differential Adjusters Provide Submicron Translation



ITEM#	METRIC ITEM#	\$	£	€	R	RMB	DESCRIPTION
KT112	KT112/M	\$ 965.50	£ 669.40	€ 857,20	¥	8,152.80	Ø5.6 mm and Ø9 mm Laser Package to Fiber Coupler

Recommended Collimation Optic*

ITEM#	\$	£	€	RMB	DESCRIPTION
C230TME-A	\$ 87.00	£ 60.40	€ 77,30	¥ 734.70	Laser Collimation Optic, f = 4.5 mm, AR-Coated: 350-700 nm
C230TME-B	\$ 87.00	£ 60.40	€ 77,30	¥ 734.70	Laser Collimation Optic, f = 4.5 mm, AR-Coated: 650-1050 nm
C230TME-C	\$ 87.00	£ 60.40	€ 77,30	¥ 734.70	Laser Collimation Optic, $f = 4.5$ mm, AR-Coated: 1050-1620 nm
*One Aspheric Optic Required. See page 635 for complete optical specifications.					

ITEM#	\$	£	€	RMB	DESCRIPTION
C220TME-A	\$ 87.00	£ 60.40	€ 77,30	¥ 734.70	Focusing Optic, f = 11 mm, AR-Coated: 350-700 nm
C220TME-B	\$ 87.00	£ 60.40	€ 77,30	¥ 734.70	Focusing Optic, $f = 11 \text{ mm}$, AR-Coated: 650-1050 nm
C220TME-C	\$ 87.00	£ 60.40	€ 77,30	¥ 734.70	Focusing Optic, f = 11 mm, AR-Coated: 1050-1620 nm

used in a Ø9.24 mm optic cell, see page

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Laser

Mount

Mounts

Rotation Mounts

Filter Mounts

V-Mounts

Adapters

Irises Apertures