▼ TECHNOLOGY

### Optics

## ▼ CHAPTERS

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Polarization Optics

**Optical Isolators** 

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**Optical Systems** 

# **Optics Kits**

- Achromatic Lenses
- Aspheric Lenses

**Cylindrical Lenses** 

Microlens Arra

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Spectral Filters

**ND Filters** 

Beamsplitte

Prieme

### Gratings

# Windows

Diffusers

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**UV Transmission Gratings** 

These UV Transmission Gratings are manufactured from carefully selected UV materials, thus providing optimal performance down to 235 nm. Zero-order data is included in all performance curves for those interested in beamsplitting applications.

By necessity, transmission gratings require relatively coarse groove spacings to maintain

## Specifications

- **Substrate Material:** UV-Grade Fused Silica
- **Thickness:** 2 mm Nominal
- **Dimensional Tolerances:** ±0.5 mm
- **Thickness Tolerances:** ±0.2 mm
- Surface Quality: 60-40 Scratch-Dig

high efficiency. As the diffraction angles increase with the finer groove spacings, the refractive properties of the materials used limit the transmission at the higher wavelengths, which leads to a degradation in performance. The grating dispersion characteristics, however, lend themselves to compact systems utilizing small detector arrays. The gratings are also relatively polarization insensitive.

ays	ITEM#	GROOVES (lines/mm)	GROOVE ANGLE	SIZE		\$		£		€		RMB	DESCRIPTION
	GTU13-03	300	8.6°	12.7 x 12.7 mm	\$ 3	79.60	£	55.20	€	70,70	¥	672.20	UV Transmission Grating
	GTU13-06	600	22°	12.7 x 12.7 mm	\$ 3	79.60	£	55.20	€	70,70	¥	672.20	UV Transmission Grating
10	GTU13-08	800	19.4°	12.7 x 12.7 mm	\$ 1	79.60	£	55.20	€	70,70	¥	672.20	UV Transmission Grating
5	GTU13-12	1200	36.9°	12.7 x 12.7 mm	\$ 3	79.60	£	55.20	€	70,70	¥	672.20	UV Transmission Grating

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ITEM#	(lines/mm)	ANGLE	SIZE	\$	t	€	RMB	DESCRIPTION
GTU25-03	300	8.6°	25 x 25 mm	\$ 114.30	£ 79.30	€ 101,50	¥ 965.20	UV Transmission Grating
GTU25-06	600	22°	25 x 25 mm	\$ 114.30	£ 79.30	€ 101,50	¥ 965.20	UV Transmission Grating

	GROOVES	GROOVE						
ITEM#	(lines/mm)	ANGLE	SIZE	\$	£	€	RMB	DESCRIPTION
GTU50-03	300	8.6°	50 x 50 mm	\$ 227.50	£ 157.80	€ 202,00	¥ 1,921.10	UV Transmission Grating
GTU50-06	600	22°	50 x 50 mm	\$ 227.50	£ 157.80	€ 202,00	¥ 1,921.10	UV Transmission Grating
GTU50-08	800	19.4°	50 x 50 mm	\$ 227.50	£ 157.80	€ 202,00	¥ 1,921.10	UV Transmission Grating
GTU50-12	1200	36.9°	50 x 50 mm	\$ 227.50	£ 157.80	€ 202,00	¥ 1,921.10	UV Transmission Grating
	ITEM# GTU50-03 GTU50-06 GTU50-08	ITEM# (lines/mm)   GTU50-03 300   GTU50-06 600   GTU50-08 800	GTU50-03 300 8.6°   GTU50-06 600 22°   GTU50-08 800 19.4°	ITEM# (lines/mm) ANGLE SIZE   GTU50-03 300 8.6° 50 x 50 mm   GTU50-06 600 22° 50 x 50 mm   GTU50-08 800 19.4° 50 x 50 mm	ITEM# (lines/mm) ANGLE SIZE \$   GTU50-03 300 8.6° 50 x 50 mm \$ 227.50   GTU50-06 600 22° 50 x 50 mm \$ 227.50   GTU50-08 800 19.4° 50 x 50 mm \$ 227.50	ITEM# (lines/mm) ANGLE SIZE \$ £   GTU50-03 300 8.6° 50 x 50 mm \$ 227.50 £ 157.80   GTU50-06 600 22° 50 x 50 mm \$ 227.50 £ 157.80   GTU50-06 800 19.4° 50 x 50 mm \$ 227.50 £ 157.80	ITEM# (lines/mm) ANGLE SIZE \$ £ €   GTU50-03 300 8.6° 50 x 50 mm \$ 227.50 £ 157.80 € 202,00   GTU50-06 600 22° 50 x 50 mm \$ 227.50 £ 157.80 € 202,00   GTU50-06 800 19.4° 50 x 50 mm \$ 227.50 £ 157.80 € 202,00	ITEM# (lines/mm) ANGLE SIZE \$ £ € RMB   GTU50-03 300 8.6° 50 x 50 mm \$ 227.50 £ 157.80 € 202,00 ¥ 1,921.10   GTU50-06 600 22° 50 x 50 mm \$ 227.50 £ 157.80 € 202,00 ¥ 1,921.10   GTU50-08 800 19.4° 50 x 50 mm \$ 227.50 £ 157.80 € 202,00 ¥ 1,921.10

# **UV Transmission Gratings Performance Curves**







