

Accessories

THz EMITTER/DETECTOR MOUNTING STAGE



Emitter (or detector) mounted on its stage

Separately from THz emitter and detector TERAVID provides convenient mounting stage compatible with both devices. It contains lens, mounted on adjustable XY holder, compact stage for shifting lens along optical axis and rail, on which both: lens and emitter/detector are mounted. This helps with pump beam guiding to the gap between electrodes located on photoconductive antenna, as well as adjusting beam diameter on active surface. Convenient fixing screws allow fast mounting and removing each part of this simple setup.

SPECIFICATIONS

Beam height	105 mm
X, Y axis travel range	3 mm
Z axis travel range	13 mm
Lens diameter	25.4 mm
Lens focal diameter	50 mm
Lens anti-reflection coating	AR/AR at selected wavelength (standard: 800 / 1030 / 1064 nm)

BIAS POWER SUPPLY TMS-100 FOR THz EMITTER



Front view of TMS-100 power supply

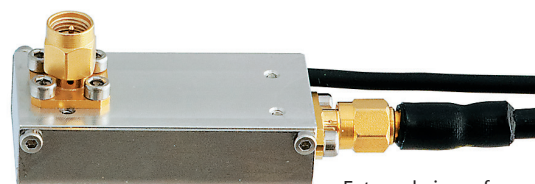
FEATURES

- ▶ Low noise
- ▶ DC or square-wave output (needs external TTL input)
- ▶ Cable for connection to THz emitter included

SPECIFICATIONS

Square-wave modulation frequency	10 Hz – 100 kHz
Output voltage	30–70 V (adjustable)
Max current	1 mA
Output socket	BNC
Mains	100/220 V AC, 50/60 Hz
Dimensions (W×L×H)	130 × 190 × 39 mm

OPERATIONAL PREAMPLIFIER FOR THz DETECTOR



External view of preamplifier

SPECIFICATIONS

PREAMPLIFIER ¹⁾	
Preamplifier type	current-voltage converter
Conversion coefficient	> 10 ⁶
Preamplifier head dimensions	60 × 12 × 15 mm
POWER SUPPLY	
Preamplifier power supply dimensions	155 × 65 × 80 mm
Preamplifier power supply output voltage	+ 15 V, - 15 V
Preamplifier power supply line voltage	220 V or 110 V

¹⁾ Preamplifier head is equipped with SMA connector matched with TERAVID THz detector.