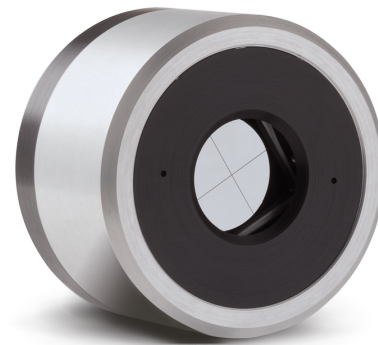


QUAD-20-MT-P-D0

P/N 201777

4-quadrant laser position sensing detector for CW lasers (using a chopper).



KEY FEATURES

MEASURE, TRACK AND ALIGN

Follow your laser beam wherever it goes.

4-CHANNEL DETECTORS

Unique quadrant detector technology senses laser beam position with high resolution.

FOR CW, PULSED AND HIGH REP RATE LASERS

- QUAD-E: energy per pulse from μJ to mJ
- QUAD-P: powers from μW to mW

FROM UV TO FIR AND THZ

Absorbers to cover all sources, from UV to millimeter wavelengths

LARGE AREA SENSORS

9 mm and 20 mm square detectors

FAST USB 2.0 CONNECTION

Ensures full speed tracking

INCLUDES APPLICATION SOFTWARE

Complete LabView application software included, with many features

COMPATIBLE STAND

[STAND-D-233](#)

COMPATIBLE DISPLAYS & PC INTERFACES

[QUAD-4Track](#)

MEASUREMENT CAPABILITIES

| | |
|--------------------------------|--------------------------|
| Maximum average power | 200 mW |
| Noise equivalent power | 2 μW |
| Spectral range | 0.1 - 3000 μm |
| Typical rise time | 0.02 sec |
| Typical power sensitivity | 2000 V/W |
| Minimum beam size ¹ | 10 mm \varnothing |
| Minimum position resolution | 10 μm |
| Maximum chopping frequency | 50 Hz |
| Calibration uncertainty | $\pm 4\%$ |

1. For optimal performance

DAMAGE THRESHOLDS

| | |
|--|------------------------|
| Maximum average power density ¹ | 100 MW/cm ² |
| Maximum energy density ² | 50 mJ/cm ² |

1. At 1064 nm.

2. At 1064 nm, 10 ns.

PHYSICAL CHARACTERISTICS

| | |
|-----------------|-------------------------------|
| Aperture width | 20 mm |
| Aperture height | 20 mm |
| Absorber | MT |
| Dimensions | 63.5 \varnothing X 40.6D mm |
| Weight | 0.18 kg |