

M6-6-SI-L

Integrating sphere detector for laser energy measurement up to 2 μJ .



KEY FEATURES

UP TO 200 KHZ PULSE-TO-PULSE

Measure every pulse, with no sampling, at high rep rates, up to 200 kHz

CAPTURE AND STORE UP TO 4 MILLION PULSES

Store 40 seconds of data at 100 kHz

TRACK MISSING PULSES AND PULSES BELOW THRESHOLD

Know how many pulses were missed or that didn't make the energy threshold with this unique pulse feature

SEVERAL HEADS TO CHOOSE FROM

Silicon, InGaAs and pyroelectric heads for a broad wavelength and energy range

ANALOG MODULE AVAILABLE

Use our fast [M6 detectors](#) with the [APM](#) and an oscilloscope for fast analog energy measurements

FULL-SPEED USB 2.0 CONNECTION

Ensures high data rate transfer and fast operation

USER-FRIENDLY SOFTWARE WITH MANY DIAGNOSTIC FEATURES

- Live mode, strip chart, histogram and statistics displays
- FFT display of pulse energy data for temporal diagnostics
- Life test mode to automate laser testing

COMPATIBLE STAND

[STAND-D-233](#)

SPECIFICATIONS

MEASUREMENT CAPABILITIES

| | |
|--|--------------------------|
| Spectral range | 0.35 - 1.1 μm |
| Typical rise time | 150 ns |
| Repeatability | $\pm 1\%$ |
| Maximum repetition frequency | 200000 Hz |
| Maximum measurable energy ¹ | 2 μJ |
| Noise equivalent energy | 20 pJ |
| Maximum pulse width | 100 ns |
| Energy calibration uncertainty | $\pm 4\%$ |

1. Maximum pulse energy reading will vary with wavelength and probe voltage responsivity. For more details, please read Application Note 121D-201932 and contact us at info@gentec-eo.com

DAMAGE THRESHOLDS

| | |
|---------------|-----|
| Maximum power | 5 W |
|---------------|-----|

PHYSICAL CHARACTERISTICS

| | |
|-------------------|-------------------------------|
| Aperture diameter | 6 mm |
| Absorber | Si |
| Dimensions | 38.1 \varnothing x 58.4D mm |
| Weight | 0.15 kg |

ORDERING INFORMATION

INTERESTED IN THIS PRODUCT?

GET A QUOTE

Find your local sales representative at gentec-eo.com/contact-us