

## MACH 6 + M6-6-PY

Integrating sphere detector for laser energy measurement up to 20 mJ.



### 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 - 2.5 $\mu\text{m}$
Typical rise time	150 ns
Repeatability	$\pm 1\%$
Maximum repetition frequency	200000 Hz
Maximum measurable energy <sup>1</sup>	20 mJ
Noise equivalent energy	0.2 $\mu\text{J}$
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](mailto:info@gentec-eo.com)

### DAMAGE THRESHOLDS

Maximum power	5 W
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### PHYSICAL CHARACTERISTICS

Aperture diameter	6 mm
Absorber	Pyroelectric
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](https://gentec-eo.com/contact-us)