

# QE50SP-H-MT-D0

Pyroelectric detector for laser energy measurement up to 13 J.



## PRODUCT FAMILY KEY FEATURES

## MODULAR CONCEPT

Increase the power capability of your detector: 2 different cooling modules

## LOW NOISE LEVEL

 $10 \mu J$  for the MB coating

## **QED ATTENUATOR AVAILABLE**

Measure up to 5X higher energies. Available with optional calibration, all wavelengths between 532 & 1064 nm, or single wavelength. Read more.

75H x 75W x 44D mm

## HIGH REPETITION RATE OPTIONS

- QE-MB: 200 Hz (standard)
- QE-MB: 500 Hz (upon request)
- QE-MT: 4 000 Hz (standard)

#### **TEST TARGET INCLUDED**

With the MB models

#### SMART INTERFACE

Containing all the calibration data

#### **COMPATIBLE STAND**

STAND-D-233

# **SPECIFICATIONS**

## MEASUREMENT CAPABILITIES

Spectral range <sup>1</sup>	0.193 - 20 μm
Typical rise time	20 μs
Repeatability	<0.5%
Maximum repetition frequency <sup>2</sup>	4000 Hz
Maximum measurable energy <sup>3</sup>	13 J
Noise equivalent energy <sup>4</sup>	10 μJ
Maximum pulse width	10 μs
Energy calibration uncertainty	±3 %

- 1. For the calibrated spectral range, see the user manual.
- 2. May be limited by the display or PC interface. Please refer to the corresponding user manual.
- 3. At 1064 nm, 7 ns, 10 Hz. Increasing pulse width increases maximum measurable energy.
- 4. Nominal value. Actual value depends on electrical noise in the measurement system.

## DAMAGE THRESHOLDS

Maximum average power density <sup>1</sup>	10 W/cm <sup>2</sup>
Maximum energy density <sup>2</sup>	0.5 J/cm <sup>2</sup>
Maximum power	20 W

- 1. May vary with wavelength and average power.
- 2. At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width.

## PHYSICAL CHARACTERISTICS

Dimensions

Physical Characteristics	
Cooling	Convection (heatsink)
Aperture width	50 mm
Aperture height	50 mm
Absorber	MT

ORDERING INFORMATION
QE50SP-H-MT-D0 200485

Weight

QE50SP-H-MT-INT-D0

0.34 kg

202754

Specifications are subject to change without notice. Refer to the user manual for complete specifications.

# **INTERESTED IN THIS PRODUCT?**

GET A QUOTE

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