

QE50SP-S-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 μ J for the MB coating

QED ATTENUATOR AVAILABLE

Measure higher energy levels. Available with optional calibration, all wavelengths between 532 and 1064 nm, or single wavelength. [Read more.](#)

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 ¹	0.193 - 20 μ m
Typical rise time	20 μ s
Repeatability	<0.5%
Maximum repetition frequency ²	4000 Hz
Maximum measurable energy ³	13 J
Noise equivalent energy ⁴	10 μ J
Maximum pulse width	10 μ s
Energy calibration uncertainty	$\pm$ 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 ¹	10 W/cm ²
Maximum energy density ²	0.5 J/cm ²
Maximum power	10 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

Cooling	Convection
Aperture width	50 mm
Aperture height	50 mm
Absorber	MT
Dimensions	75H x 75W x 15D mm

ORDERING INFORMATION

QE50SP-S-MT-D0

200484

QE50SP-S-MT-INT-D0

202756

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

INTERESTED IN THIS PRODUCT?

[GET A QUOTE](#)

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