DORGEAN
Beijing Dorgean Electronic Technology Co.,Ltd

Instrument Expert
Original factory packaging
www.dorgean.com

gentec-ɛͻ
PARTNERS for ACCURACY

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 µJ 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.

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 µm
Typical rise time	20 µs
Repeatability	<0.5%
Maximum repetition frequency[2]	4000 Hz
Maximum measurable energy[3]	13 J
Noise equivalent energy[4]	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[1]	10 W/cm²
Maximum energy density[2]	0.5 J/cm²
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

Cooling	Convection (heatsink)
Aperture width	50 mm
Aperture height	50 mm
Absorber	MT
Dimensions	75H x 75W x 44D mm

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Weight	0.34 kg

ORDERING INFORMATION

QE50SP-H-MT-D0	200485
QE50SP-H-MT-INT-D0	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