

QE50-MT

50 x 50 mm, 10 μ J - 85 J



KEY FEATURES

- > **MODULAR CONCEPT**
Increase the power capability of your detector:
2 different cooling modules
- > **LOW NOISE LEVEL**
- > **QED ATTENUATOR AVAILABLE**
Measure up to 5X higher energies
Available with optional calibration, all
wavelengths between 532 & 1064 nm, or single
wavelength
- > **HIGH REPETITION RATE**
Measure each pulse at up to 4000 Hz

OUTPUT OPTIONS

- > **SMART DB15 CONNECTOR**
Contains all the calibration data
- > **integra ALL-IN-ONE-METER**
Connects directly to a PC
Three models available:
 - USB output (-INT)
 - RS-232 output (-IDR)
 - USB with external trigger (-INE)

COMPATIBLE DISPLAYS & PC INTERFACES



MIRO ALTITUDE



MAESTRO



U-LINK



M-LINK



S-LINK

ACCESSORIES



Stand with delrin post



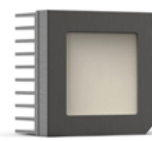
DB15 to BNC adaptor





QED-50 attenuator



Pelican carrying case



	QE50SP-S-MT-D0	QE50SP-H-MT-D0
MAX MEASURABLE ENERGY ^a	13 J	13 J
MAX REPETITION FREQUENCY ^{b,c}	4000 Hz	4000 Hz
EFFECTIVE APERTURE	50 x 50 mm	50 x 50 mm
MEASUREMENT CAPABILITY		
Spectral range	0.19 - 20 μm	0.19 - 20 μm
Calibrated spectral range ^d	0.248 - 2.1 μm	0.248 - 2.1 μm
Maximum measurable energy ^a		
1064 nm, 7 ns, 10 Hz	13 J	13 J
266 nm, 7 ns, 10 Hz	1.8 J	1.8 J
Noise equivalent energy ^e	10 μJ	10 μJ
Max repetition frequency ^{b,c}	4000 Hz	4000 Hz
Maximum pulse width (typical)	10 μs	10 μs
Rise time (typical 0-100%)	20 μs	20 μs
Calibration uncertainty ^f	$\pm 3\%$	$\pm 3\%$
Repeatability	< 0.5%	< 0.5%
DAMAGE THRESHOLDS		
Maximum average power	10W	20W
Maximum energy density		
1064 nm, 7 ns, single shot	0.50 J/cm ²	0.50 J/cm ²
1064 nm, 7 ns, 10 Hz	0.50 J/cm ²	0.50 J/cm ²
532 nm, 7 ns, 10 Hz	0.07 J/cm ²	0.07 J/cm ²
266 nm, 7 ns, 10 Hz	0.07 J/cm ²	0.07 J/cm ²
Maximum average power density ^g	10 W/cm ²	10 W/cm ²
PHYSICAL CHARACTERISTICS		
Effective aperture	50 x 50 mm	50 x 50 mm
Absorber	MB	MB
Dimensions	75H x 75W x 15D mm	75H x 75W x 44D mm
Weight	209 g	338 g
ORDERING INFORMATION		
Available output options	DB15, USB or RS-232	DB15, USB or RS-232
Compatible stand	STAND-D-233	STAND-D-233
Product page		

- a. Not exceeding maximum average power. Increasing pulse width increases the maximum measurable energy.
- b. With the IDR version, measured values are sampled when the repetition rate is > 200 Hz.
- c. Maximum 5.2 kHz with INT version.
- d. Calibration at 2.1 to 2.5 μm is available on special request.
- e. Nominal value, actual value depends on electrical noise in the measurement system.
- f. Excludes non-linearities.
- g. At maximum power.