

# QE25-MT

25 x 25 mm, 2  $\mu$ J - 23 J, tuned for high repetition rates

New product



## KEY FEATURES

- > **MODULAR CONCEPT**  
Increase the power capability of your detector:  
2 different cooling modules
- > **LOW NOISE LEVEL**
- > **NEW MODELS FOR HIGH REPETITION RATES**  
The QE25HR models are tuned for short pulses with  
high repetition rates (up to 10 kHz)

## 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-25 attenuator



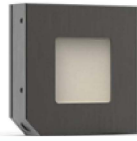
Pelican carrying case

# QE25-MT

## Specifications



\*Also traceable to NRC-CNRC



	QE25SP-S-MT-DO	QE25SP-H-MT-DO	QE25HR-H-MT-DO
<b>MAX MEASURABLE ENERGY</b> <sup>a</sup>	3.0J	3.0J	3.0J
<b>MAX REPETITION FREQUENCY</b> <sup>b,c</sup>	6kHz	6kHz	10 kHz
<b>EFFECTIVE APERTURE</b>	25x25mm	25x25 mm	25x25mm
<b>MEASUREMENT CAPABILITY</b>			
Spectral range	0.19-20μm	0.19-20μm	0.19-20μm
Calibrated spectral range <sup>d</sup>	0.248 - 21 μm	0.248 - 21 μm	0.248 - 21 μm
Maximum measurable energy <sup>e</sup>			
1064 nm, 7 ns, 10 Hz	3.0J	3.0J	3.0J
266 nm, 7 ns, 10 Hz	0.44J	0.44J	0.44J
Noise equivalent energy <sup>f</sup>	2 μJ	2 μJ	3 μJ
Max repetition frequency <sup>g</sup>	6kHz	6kHz	10 kHz
Maximum pulse width (typical)	10μs	10 μs	4 μs
Rise time (typical 0-100%)	20 μs	20μs	7 μs
Calibration uncertainty <sup>h</sup>	±3%	±3%	±3%
Repeatability	<0.5%	<0.5%	<0.5%
<b>DAMAGE THRESHOLDS</b>			
Maximum average power	5W	10W	10W
Maximum energy density			
1064 nm, 7 ns, single shot	0.50J/cm <sup>2</sup>	0.50J/cm <sup>2</sup>	0.50J/cm <sup>2</sup>
1064 nm, 7 ns, 10 Hz	0.50J/cm <sup>2</sup>	0.50J/cm <sup>2</sup>	0.50J/cm <sup>2</sup>
532 nm, 7 ns, 10 Hz	0.07 J/cm <sup>2</sup>	0.07 J/cm <sup>2</sup>	0.07 J/cm <sup>2</sup>
266 nm, 7 ns, 10 Hz	0.07 J/cm <sup>2</sup>	0.07 J/cm <sup>2</sup>	0.07 J/cm <sup>2</sup>
Maximum average power density <sup>g</sup>	10W/cm <sup>2</sup>	10W/cm <sup>2</sup>	10W/cm <sup>2</sup>
<b>PHYSICAL CHARACTERISTICS</b>			
Effective aperture	25x25mm	25x25 mm	25x25mm
Absorber	MT	MT	MT
Dimensions	50H x 50W x 14D mm	50H x 50W x 53D mm	50H x 50W x 53D mm
Weight	193g	193g	193g
<b>ORDERING INFORMATION</b>			
Available output options	DBIS, USB or RS-232	DBIS, USB or RS-232	DBIS, USB or RS-232
Compatible stand	STAND-D-233	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 ≤ 2 kHz with INT version.
- d. Calibration at 21 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.