

QE95-MB

95 mm Ø, 15 µJ - 250 J



KEY FEATURES

- > **MODULAR CONCEPT**
Increase the power capability of your detector:
2 different cooling modules
- > **EXTRA LARGE APERTURE**
Effective aperture of 95 mm Ø
- > **QED ATTENUATOR AVAILABLE**
 - Measure up to 5X higher energies
 - Available with optional calibration,
all wavelengths between 532 & 1064 nm,
or single wavelength
- > **LOW NOISE LEVEL**
- > **TEST TARGET INCLUDED**

OUTPUT OPTIONS

- > **SMART INTERFACE**
Containing 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
(200428, For -S model)



Stand with delrin post
(201284, For -H model)



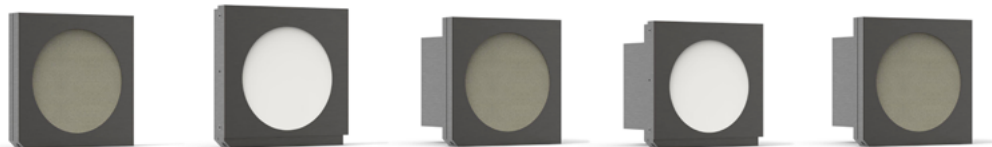
DB15 to BNC adaptor








QED-95 attenuator



Pelican carrying case



| | QE95LP-S-MB | QE95LP-S-MB-QED | QE95LP-H-MB | QE95LP-H-MB-QED | QE95ELP-H-MB |
|---|---|---|--|---|---|
| MAX MEASURABLE ENERGY ^a | 35 J | 250 J | 35 J | 250 J | 70 J |
| MAX REPETITION FREQUENCY | 40 Hz | 40 Hz | 40 Hz | 40 Hz | 10 Hz |
| EFFECTIVE APERTURE | 95 mm \emptyset | 90 mm \emptyset | 95 mm \emptyset | 90 mm \emptyset | 95 mm \emptyset |
| MEASUREMENT CAPABILITY | | | | | |
| Spectral range | 0.19 - 20 μ m | 0.3 - 2.1 μ m | 0.19 - 20 μ m | 0.3 - 2.1 μ m | 0.19 - 20 μ m |
| Calibrated spectral range ^b | 0.248 - 2.1 μ m | 0.308 - 2.1 μ m | 0.248 - 2.1 μ m | 0.308 - 2.1 μ m | 0.248 - 2.1 μ m |
| Maximum measurable energy ^a | | | | | |
| 1064 nm, 150 μ s pulse, Single shot | 35 J | 250 J | 35 J | 250 J | 70 J |
| 1064 nm, 7 ns, 10 Hz | 35 J | 150 J | 35 J | 150 J | 35 J |
| 266 nm, 7 ns, 10 Hz | 30 J | 50 J | 30 J | 50 J | 30 J |
| Noise equivalent energy ^c | 15 μ J | 30 μ J | 15 μ J | 30 μ J | 30 μ J |
| Max repetition frequency | 40 Hz | 40 Hz | 40 Hz | 40 Hz | 10 Hz |
| Maximum pulse width (typical) ^d | 1.5 ms | 1.5 ms | 1.5 ms | 1.5 ms | 5 ms |
| Rise time (typical 0-100%) | 2 ms | 2 ms | 2 ms | 2 ms | 6 ms |
| Calibration uncertainty ^e | \pm 3% | \pm 3% | \pm 3% | \pm 3% | \pm 3% |
| Repeatability | < 0.5% | < 0.5% | < 0.5% | < 0.5% | < 0.5% |
| DAMAGE THRESHOLDS | | | | | |
| Maximum average power | 20 W | 45 W | 40 W | 90 W | 40 W |
| Maximum energy density | | | | | |
| 1064 nm, 150 μ s, 10 Hz | 1.2 J/cm ² | 14 J/cm ² | 1.2 J/cm ² | 14 J/cm ² | 1.2 J/cm ² |
| 1064 nm, 7 ns, single shot | 0.6 J/cm ² | 16 J/cm ² | 0.6 J/cm ² | 16 J/cm ² | 0.6 J/cm ² |
| 1064 nm, 7 ns, 10 Hz | 0.6 J/cm ² | 8 J/cm ² | 0.6 J/cm ² | 8 J/cm ² | 0.6 J/cm ² |
| 532 nm, 7 ns, 10 Hz | 0.6 J/cm ² | 6 J/cm ² | 0.6 J/cm ² | 6 J/cm ² | 0.6 J/cm ² |
| 266 nm, 7 ns, 10 Hz | 0.5 J/cm ² | 1 J/cm ² | 0.5 J/cm ² | 1 J/cm ² | 0.5 J/cm ² |
| Maximum average power density ^f | 10 W/cm ² | 600 W/cm ² | 10 W/cm ² ^h | 600 W/cm ² | 10 W/cm ² |
| PHYSICAL CHARACTERISTICS | | | | | |
| Effective aperture | 95 mm \emptyset | 90 mm \emptyset | 95 mm \emptyset | 90 mm \emptyset | 95 mm \emptyset |
| Absorber | MB | QED | MB | QED | MB |
| Dimensions | 122H x 122W x 20D mm | 122H x 122W x 24D mm | 122H x 122W x 98D mm | 122H x 122W x 102D mm | 122H x 122W x 98D mm |
| Weight | 0.78 kg | 0.78 kg | 1.2 kg | 1.2 kg | 1.2 kg |
| ORDERING INFORMATION | | | | | |
| Available output options | DB15, USB or RS-232 | DB15, USB or RS-232 | DB15, USB or RS-232 | DB15, USB or RS-232 | DB15, USB or RS-232 |
| Compatible stand | STAND-D-233 | STAND-D-233 | STAND-D-443 | STAND-D-443 | STAND-D-443 |
| Product page |  |  |  |  |  |

- a. Not exceeding maximum average power. Increasing pulse width increases the maximum measurable energy.
- b. Calibration at 2.1 to 2.5 μ m is available on special request.
- c. Nominal value, actual value depends on electrical noise in the measurement system.
- d. Also available on special order: ELP (extra-long pulse) version.
- e. Excludes non-linearities.
- f. At maximum power.