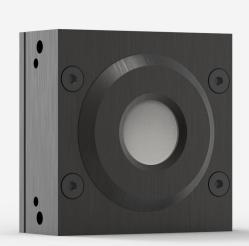


UP16K-15S-QED-D0

Thermal detector for laser power measurement up to 15 W.



PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

Increase the power capability of your detector: 4 different cooling modules

HIGH PEAK POWER DIFFUSING ABSORBER

Perfect for pulsed beams with high energy density

COMPACT DESIGN

23.6 mm thick

HIGH AVERAGE POWER

Measure up to 15 W of continuous power

SMART INTERFACE

Containing all the calibration data

AWARD-WINNING TECHNOLOGY

The UP-QED laser power detectors for extremely high density lasers were recognized among the most innovative photonics technologies for the 2021 Laser Focus World Innovators Awards, as a Gold honoree.



COMPATIBLE STAND

STAND-S-233

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Maximum average power (continuous)	15 W
Maximum average power (1 minute)	20 W
Noise equivalent power ¹	4 mW
Spectral range ²	0.266 - 2.5 µm
Typical rise time ³	2.5 s
Power calibration uncertainty ⁴	±2.5 %
Repeatability	±0.5 %

- 1. Nominal value, actual value depends on electrical noise in the measurement system.
- $2. \ \mbox{For the calibrated spectral range, see the user manual.}$
- 3. With anticipation.
- 4. Including linearity with power.

MEASUREMENT CAPABILITIES (ENERGY MODE)

MEASOREMENT CALABIETTES (ENERGY MODE)	
Maximum measurable energy ¹	500 J
Noise equivalent energy ²	0.06 J
Minimum repetition period	4 s
Maximum pulse width	61 ms
Energy calibration uncertainty ³	±5 %

- 1. For 360 μs pulses. Higher pulse energy possible for long pulses (ms), less for short pulses (ns).
- 2. Nominal value, actual value depends on electrical noise in the measurement system.
- 3. When single-shot energy calibration is purchased

DAMAGE THRESHOLDS

Maximum energy density ²	8 J/cm ²
1. At 1064 nm, 10 W CW. 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 diameter	16 mm
Absorber	QED
Dimensions	50H x 50W x 23.5D mm
Weight	0.16 kg
ORDERING INFORMATION	
UP16K-15S-QED-D0	203876
UP16K-15S-QED-BLU-D0	TBD
UP16K-15S-QED-INT-D0	205182
UP16K-15S-QED-IDR-D0	205199

Maximum average power density¹

100 kW/cm²

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

INTERESTED IN THIS PRODUCT?

GET A QUOTE

Find your local sales representative at gentec-eo.com/contact-us