



UP19K-110F-H9-D0

Thermal detector for laser power measurement up to 110 W.



PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

Increase the power capability of your detector: 5 different cooling modules

HIGH PERFORMANCE

- Fast rise time (0.6 sec)
- High damage threshold (45 kW/cm²)

COMPACT DESIGN

Only 20.6 mm thick (15S model)

ENERGY MODE

Measure single shot energy up to 15 ${\tt J}$

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-S-233

SPECIFICATIONS

MEASUREMENT CAPABILITIES	
Maximum average power (continuous)	110 W
Maximum average power (1 minute)	150 W
Noise equivalent power ¹	3 mW
Spectral range ²	0.193 - 20 μm
Typical rise time ³	1.5 s
Power calibration uncertainty ⁴	±2.5 %
Repeatability	±0.5 %

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

MEASUREMENT CAPABILITIES (ENERGY MODE)

Maximum measurable energy ¹	25 J
Noise equivalent energy ²	0.06 J
Minimum repetition period	4 s
Maximum pulse width	88 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 average power density ^l	45 kW/cm ²
Maximum energy density ²	1J/cm²

- 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

Fan Cooling





Aperture diameter	19 mm
Absorber	H9
Dimensions	50H x 50W x 63D mm
Weight	0.25 kg
ORDERING INFORMATION	
UP19K-110F-H9-D0	200994B
UP19K-110F-H9-INT-D0	202623B
UP19K-110F-H9-IDR-D0	203332
UP19K-110F-H9-BLU-D0	203631B

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

INTERESTED IN THIS PRODUCT?

GET A QUOTE

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