



## IS50A-1KW-RMT-D0

High-power joulemeter for laser energy measurement up to 1 kW average power.



#### PRODUCT FAMILY KEY FEATURES

## **CUSTOM-BUILT**

Contact us with your requirements for a version tailored to your needs

## HIGH AVERAGE POWER

The water-cooled joulemeters can handle high average powers.

#### RESISTANT COATING

Our proprietary coating is designed to be strong. Its damage thresholds are orders of magnitude higher than any other "white" coatings on the market.

400 mJ/cm<sup>2</sup>

1 kW

#### PRECISE CALIBRATION

The IS detectors have a NIST-traceable calibration for their entire calibrated spectral range.

#### **CHOICE OF OUTPUT**

The IS-RMT detectors are available with four output options:

- Smart DB15 connector containing all the calibration data
- INTEGRA with USB output (-INT)
- INTEGRA with RS-232 output (-IDR)
- INTEGRA with USB output and external trigger (-INE)

#### **COMPATIBLE STAND**

STAND-D-443

## **SPECIFICATIONS**

MEASUREMENT CAPABILITIES	
Spectral range	0.19 - 2.5 μm
Typical rise time	30 µs
Repeatability	±0.5 %
Maximum repetition frequency	1000 Hz
Maximum measurable energy	13
Noise equivalent energy <sup>1</sup>	1 mJ
Maximum pulse width	10 µs
Energy calibration uncertainty <sup>2</sup>	±4%
Maximum incidence angle	$\pm$ 25° for beam diameter < 12mm, $\pm$ 5° for beam diameter > 12mm
Maximum divergence	10° (half-angle)
Back reflections	12 %, concentrated in a cone with 15 degrees half-angle
Calibrated spectral range	532 nm and 1064 nm
1. Typical value 2. At 532 nm and 1064 nm	
DAMAGE THRESHOLDS	
Maximum average power density <sup>1</sup>	5 kW/cm²

Maximum power

1. At 1064 nm, CW 2. At 532 nm and 1064 nm, 7 ns

Maximum energy density<sup>2</sup>

### PHYSICAL CHARACTERISTICS





Cooling	Water
Aperture diameter	50 mm
Absorber	Pyroelectric
Dimensions	127H x 140W x 115D mm
Weight	4 kg
ORDERING INFORMATION	
IS50A-1KW-RMT-D0	Custom
IS50A-1KW-RMT-INT-D0	
IS50A-1KW-RMT-IDR-D0	
IS50A-1KW-RMT-INE-D0	

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