Meet The New FLASH Handheld Power Meter

The new Gentec-EO FLASH Handheld Power Meter is fast as a flash, literally. With a response time at least 2 times shorter than most of the competition, the FLASH allows the user to take more measurements in less time. Depending on the power measured, readings can be taken one after the other. There's no waiting, no downtime. Now that's efficiency. You can even let the FLASH work for you, with its automated hand-free operation capability.

Main Technical Specifications

	FLASH-500	FLASH-3K
Max Average Power	500 W	3000 W
MEASUREMENT CAPABILITY		
Noise Equivalent Power	0.1 W	5 W
Response Time	5-6 sec	10-12 sec
Calibration Uncertainty	±3 %	±6 %
Numerical Display Resolution	0.1 W	1 W
DAMAGE THRESHOLDS		
Maximum Average Power Density		
1064 nm, 100 W, CW	25 kW/cm^2	25 kW/cm^2
1064 nm, 500 W, CW	4 kW/cm^2	4 kW/cm^2
Maximum Allowable Absorber Temperature	65 °C	65 °C
GENERAL SPECIFICATIONS		
Digital Display	40 x 20 mm	
Battery Type	2 x AA batteries, 3.0 V	
Battery Life	>5000 measurements	
PHYSICAL CHARACTERISTICS		
Effective Aperture Diameter	55 mm Ø	55 mm Ø
Absorber Profile	Flat	Flat
Dimensions (Sensor, Monitor and Handle)	334.8H x 88W x 35D mm	334.8H x 88W x 45D mm
Weight	930 g	1240 g

gentec-eo
Laser Beam Measurement

Application Note

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**Meet The New FLASH
Handheld Power Meter**

Monitors

Energy Detectors

Power Detectors

OEM Detectors

Calorimeters

Diffractive Optics

Beam Diagnostics

Sales Arguments

Fast as a *FLASH*

The FLASH's 5 seconds measurement time (for the 500 W model) allows for multiple measurements before having to cool it down.

- 7 times faster than Ophir's Comet 1K
- 2 times faster than Primes PocketMonitor 05p
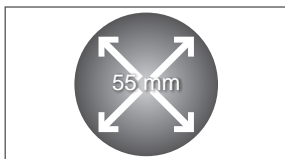
Rugged

With its all-metal body and the highest damage thresholds of its class, the FLASH is sure to have a long life, even in the most hostile environements! Tested 5 times per face for drop tests at table height (86 cm).

Widest Range of Operation

Its very low noise level of 0.1 W allows the user to accurately measure power down to 2 W (for the 500 W model).

- 10 times lower minimum power than Ophir's Comet 1K
- 12 times lower minimum power than Primes PocketMonitor 05p

Largest Aperture

55 mm

The FLASH brings the largest aperture to the market with a 55 mm diameter sensor.

The Only One with Custom Calibration

1051 nm
1064 nm
355 nm
532 nm
800 nm
10.6 µm

The FLASH can be calibrated at any wavelength between 250 and 2500 nm + CO_2. Furthermore, you can have up to 3 calibrations programmed in a single FLASH unit.

Comparison with the Competition (500 W to 1000 W models)

Company	gentec-eo	OPHIR	PRIMES	MI	laserpoint
Model	FLASH-500	Comet 1K	PocketMonitor 05p	P500Y (or C)	Fit500
Maximum Measurable Power	500 W	1000 W	500 W	500 W	500 W
Minimum Measurable Power	2 W [a]	20 W	25 W	5 W [b]	5 W
Measurement Time [c]	5-6 sec	35 sec [d]	10-20 sec	20 sec	4 sec
Calibration Uncertainty	±3 %	±5 %	±4 %	±5 %	±3 %
Calibrations Wavelengths	CO_2, YAG or custom [e]	CO_2, YAG	Unknown	CO_2, YAG	CO_2, YAG
# of calibrations in one unit	up to 3	up to 2	only 1	only 1	up to 2
Max. Avg. Power Density					
Mid-Range	25 kW/cm^2	10 kW/cm^2	Unknown	---	10 kW/cm^2
Full-Scale	4 kW/cm^2	4 kW/cm^2	Unknown	2(Y) 4(C) kW/cm^2	2.5 kW/cm^2
LED Indicators	2 (Red and Green)	None	None	None	1
Backlight	Yes	No	No	N/A	No
Aperture Size	55 mm Ø	30 mm Ø [f]	Unknown	50.8 mm Ø	25 mm Ø

[a] Noise Equivalent Power : 0.1 W
[b] Corresponds to 1 division
[c] Includes display time
[d] 10 seconds for the initial reading, 25 additional seconds for the final and most accurate reading. The first 10 seconds are not automatic (the user has to count the time). This information is only available in the user manual.
[e] Any wavelength between 250 and 2500 nm
[f] Advertised aperture is 50 mm Ø, but usable aperture is 30 mm Ø. Again, this information is only available in the user manual.

Ordering Information

Full Product Name	**FLASH-500**	**FLASH-3K**
Product Number	201244	201245

Authorized Distributor In Japan

製品のお問合せは・・・

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