

FLASH

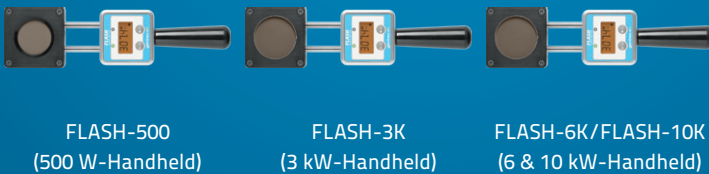
Handheld Laser Probe, 500 W, 3 kW, 6 kW and 10 kW



KEY FEATURES

- 1 Wide Power Range**
Very low noise level = wide power range with just one device
- 2 No-Wait Measurements**
5 seconds measurements allow for very short cooling time (all models except FLASH-3K)
- 3 Easy Operation**
 - Backlight with ON/OFF controls
 - Thermometer for head temperature
 - Red and Green LEDs for device status
 - Functions separated on 2 buttons
- 4 Large Aperture**
55 mm aperture to accommodate large beams
- 5 Rugged**
 - All-metal body
 - High Damage Thresholds
- 6 Hand-Free Operation**
 - Stable when placed flat on a table
 - 1/4-20 UNC fixation holes on the sides of the head

AVAILABLE MODELS



FLASH-500
(500 W-Handheld)

FLASH-3K
(3 kW-Handheld)

FLASH-6K/FLASH-10K
(6 & 10 kW-Handheld)

CUSTOM MODEL



FLASH with CABLE

As an option, it is possible to get any model of FLASH Handheld Laser Probe with a soft cable instead of the standard handle.

ACCESSORIES



Stand with Steel Post



Pelican Carrying Case

SEE ALSO

HOW IT WORKS	12
CALIBRATION	6
TECHNICAL DRAWINGS	98

FLASH

SPECIFICATIONS



*Also traceable to NRC-CNRC

MODELS	FLASH-500	FLASH-3K	FLASH-6K	FLASH-10K
MAX AVERAGE POWER (CONTINUOUS)	500 W	3 000 W	6 000 W	10 000 W
EFFECTIVE APERTURE	55 mm Ø	55 mm Ø	55 mm Ø	55 mm Ø
COOLING METHOD	Convection	Convection	Convection	Convection

MEASUREMENT CAPABILITY

Spectral Range	0.19 – 20 µm		0.19 – 20 µm		0.19 – 20 µm		0.19 – 20 µm	
Maximum Measurable Power	500 W		3000 W		6000 W		10000 W	
Available Wavelengths	CO ₂ , YAG, Custom (250 - 2500 nm) - Up to 3 Calibrations/Unit							
Noise Equivalent Power	0.1 W		5 W		20 W		30 W	
Response Time	5 sec		10 sec		5 sec		5 sec	
Calibration Uncertainty	±3 %		±5 %		±5 %		±5 %	
Number of Readings Before Cooling	100 W	25	0.5 kW	6	1 kW	6	1 kW	10
	200 W	12	1 kW	3	2 kW	3	2 kW	5
	300 W	8	1.5 kW	2	3 kW	2	5 kW	2
	500 W	5	3 kW	1	6 kW	1	10 kW	1

DAMAGE THRESHOLDS

Maximum Average Power Density								
1064 nm, 100 W, CW	25 kW/cm ²		–		–		–	
1064 nm, 500 W, CW	5 kW/cm ²		7 kW/cm ²		–		–	
1064 nm, 3000 W, CW	–		5 kW/cm ²		8 kW/cm ²		–	
1064 nm, 6000 W, CW	–		–		7 kW/cm ²		7 kW/cm ²	
1064 nm, 10000 W, CW	–		–		–		5.5 kW/cm ²	
Maximum Allowable Absorber Temperature	65 °C		65 °C		75 °C		75 °C	

GENERAL SPECIFICATIONS

Digital Display	40 x 20 mm							
Battery Type	2 x AA batteries, 3.0 V							
Battery Life	>5000 measurements							
Operating Temperature Range	10 to 40 °C							
Storage Temperature Range	10 to 60 °C							

PHYSICAL CHARACTERISTICS

Effective Aperture Diameter	55 mm Ø		55 mm Ø		55 mm Ø		55 mm Ø	
Absorber Profile	Flat		Flat		Flat		Flat	
Dimensions (Sensor Head, Monitor and Handle)	335H x 88W x 35D mm		335H x 88W x 45D mm		335H x 88W x 36D mm		335H x 88W x 46D mm	
Weight	930 g		1240 g		1520 g		2150 g	

ORDERING INFORMATION

Full Product Name	FLASH-500	FLASH-3K	FLASH-6K	FLASH-10K
Product Number	201244	201245	201851	201868

Specifications are subject to change without notice