

# 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-55)
- 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 Available with Handle or Cable**
  - Standard Model: Fixed Handle
  - In Option: -C Model with 5 feet soft cable and removable handle
- 5 Large Aperture**  
55 mm aperture to accommodate large beams
- 6 Rugged**
  - All-metal body
  - High Damage Thresholds

## AVAILABLE MODELS



FLASH-500-55  
(500 W-Handheld)

FLASH-3K-55  
(3 kW-Handheld)

FLASH-(6K/10K)-55  
(6 & 10 kW-Handheld)

FLASH-500-55-C  
(500 W-With Cable)

FLASH-3K-55-C  
(3 kW-With Cable)

FLASH-(6K/10K)-55-C  
(6 & 10 kW-With Cable)

## ACCESSORIES



Stand with Steel Post  
(Model Number: 201102)



Pelican Carrying Case

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# FLASH

## SPECIFICATIONS



\*Also traceable to NRC-CNRC

MODELS	FLASH-500-55	FLASH-3K-55	FLASH-6K-55	FLASH-10K-55
<b>MAX AVERAGE POWER (CONTINUOUS)</b>	500 W	3 000 W	6 000 W	10 000 W
<b>EFFECTIVE APERTURE</b>	55 mm Ø	55 mm Ø	55 mm Ø	55 mm Ø
<b>COOLING METHOD</b>	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 <sub>2</sub> , 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 (200 sec)	0.5 kW	6 (72 sec)	1 kW	6 (36 sec)	1 kW	10 (60 sec)
(Maximum Exposure Time Before Cooling)	200 W	12 (100 sec)	1 kW	3 (36 sec)	2 kW	3 (18 sec)	2 kW	5 (30 sec)
	300 W	8 (60 sec)	1.5 kW	2 (24 sec)	3 kW	2 (12 sec)	5 kW	2 (12 sec)
	500 W	5 (40 sec)	3 kW	1 (12 sec)	6 kW	1 (6 sec)	10 kW	1 (6 sec)

### DAMAGE THRESHOLDS

Maximum Average Power Density								
1064 nm, 100 W, CW	25 kW/cm <sup>2</sup>		-		-		-	
1064 nm, 500 W, CW	5 kW/cm <sup>2</sup>		7 kW/cm <sup>2</sup>		-		-	
1064 nm, 3000 W, CW	-		5 kW/cm <sup>2</sup>		8 kW/cm <sup>2</sup>		-	
1064 nm, 6000 W, CW	-		-		7 kW/cm <sup>2</sup>		7 kW/cm <sup>2</sup>	
1064 nm, 10000 W, CW	-		-		-		5.5 kW/cm <sup>2</sup>	
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	55 mm Ø		55 mm Ø		55 mm Ø		55 mm Ø	
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

	Standard	Cable	Standard	Cable	Standard	Cable	Standard	Cable
Common Product Name	FLASH-500-55		FLASH-3K-55		FLASH-6K-55		FLASH-10K-55	
Add Extension for Cable	-C		-C		-C		-C	
Product Number	201244	201959	201245	201973	201851	201975	201868	201977

Specifications are subject to change without notice