

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 Ø 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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MONITORS

ENERGY DETECTORS

POWER DETECTORS

HIGH POWER SOLUTIONS

PHOTO DETECTORS

THZ DETECTORS

OEM DETECTORS

SPECIAL PRODUCTS

BEAM DIAGNOSTICS

FLASH



*Also traceable to NRC-CNRC

SPECIFICATIONS

	FLASH-500-55		FLASH-3K-55		FLASH-6K-55		FLASH-10K-55	
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 (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 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		40 x 20 mm		40 x 20 mm		40 x 20 mm	
Battery Type	2 x AA batteries, 3.0 V		2 x AA batteries, 3.0 V		2 x AA batteries, 3.0 V		2 x AA batteries, 3.0 V	
Battery Life	>5000 measurements		>5000 measurements		>5000 measurements		>5000 measurements	
Operating Temperature Range	10 to 40 °C		10 to 40 °C		10 to 40 °C		10 to 40 °C	
Storage Temperature Range	10 to 60 °C		10 to 60 °C		10 to 60 °C		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								
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