

# FLASH-IPL

Handheld Laser Probe for IPL Sources, 2 - 350 J per pulse



## KEY FEATURES

- HIGH ENERGY PER PULSE**  
Accurate readings up to 350 J/pulse!
- EASY OPERATION**
  - Backlight with ON/OFF controls
  - Thermometer for head temperature
  - Red and Green LEDs for device status
  - Functions separated on 2 buttons
- AVAILABLE WITH HANDLE OR CABLE**
  - Standard Model: Fixed Handle
  - In Option: -C Model with 5 feet soft cable and removable handle
- LARGE APERTURE**  
55 mm  $\emptyset$  aperture to accommodate large beams
- RUGGED**
  - All-metal body
  - High Damage Thresholds
- QUARTZ WINDOW**
  - For measurements with gel-coupled IPL heads.
  - Protects the absorber, easy to clean

## AVAILABLE MODELS



FLASH-500-55-W-IPL  
(55 mm  $\emptyset$  with Window)



FLASH-500-55-W-IPL-C  
(55 mm  $\emptyset$  Win. & Cable)

## ACCESSORIES



Stand with Steel Post  
(Model Number: 201102)



Pelican Carrying Case

## SEE ALSO

HOW IT WORKS	14
CALIBRATION	6
TECHNICAL DRAWINGS	88
ABSORPTION CURVES	92
LIST OF ALL ACCESSORIES	186

## FLASH-IPL



\*Also traceable to NRC-CNRC

## SPECIFICATIONS

## FLASH-500-55-W-IPL

<b>MAX PULSE ENERGY (SINGLE SHOT)</b>	350 J
<b>EFFECTIVE APERTURE</b>	55 mm Ø
<b>APERTURE TYPE</b>	Full Aperture with Quartz Window

## MEASUREMENT CAPABILITY

Spectral Range	0.19 - 2.5 µm
Available Wavelengths	YAG, Custom (250 - 2000 nm)
Wavelengths per unit	Up to 3 Calibrations/Unit
IPL Mode (Energy Mode)	
Energy Range	2 - 350 J
Noise Equivalent Energy	500 mJ
Sensitivity	0.013 mV/J
Response Time	2 sec
Minimum Repetition Period	15 sec (= time between measurements)
Maximum Pulse Width	433 ms
Accuracy in IPL Mode	±5 %
Power Mode	
Maximum Measurable Power	500 W
Noise Equivalent Power	0.1 W
Response Time	5 sec
Calibration Uncertainty	Typical Value (±3 % uncertainty available with optional power mode calibration)

## DAMAGE THRESHOLDS

Maximum Average Power Density	45 kW/cm <sup>2</sup> (1064 nm, 10 W, CW)
Pulsed Laser Damage Threshold	175 J/cm <sup>2</sup> (10 ms pulses)
Maximum Allowable Absorber Temperature	65 °C

## GENERAL SPECIFICATIONS

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

## PHYSICAL CHARACTERISTICS

Effective Aperture	55 mm Ø
Dimensions (Sensor Head, Monitor and Handle)	335H x 88W x 35D mm
Weight	930 g

## ORDERING INFORMATION

	Standard	Cable
Common Product Name	FLASH-500-55-W-IPL	
Add Extension for Cable		-C
Product Number	202064	202065

Specifications are subject to change without notice