

FLASH-IPL

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



KEY FEATURES

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

AVAILABLE MODELS



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



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

ACCESSORIES



Stand with Steel Post
(Model Number: 201102)



Pelican Carrying Case

SEE ALSO

HOW IT WORKS	14
CALIBRATION	6
TECHNICAL DRAWINGS	86
ABSORPTION CURVES	90
LIST OF ALL ACCESSORIES	182

FLASH-IPL



*Also traceable to NRC-CNRC

SPECIFICATIONS

FLASH-500-55-W-IPL

MAX PULSE ENERGY (SINGLE SHOT)	350 J
EFFECTIVE APERTURE	55 mm Ø
APERTURE TYPE	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 ² (1064 nm, 10 W, CW)
Pulsed Laser Damage Threshold	175 J/cm ² (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