

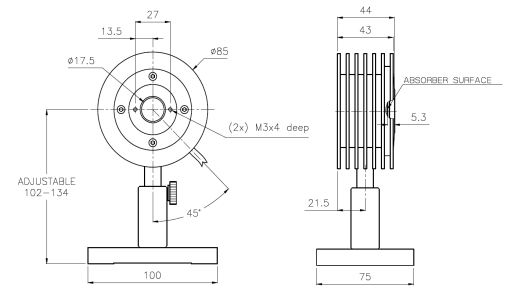
30(150)A / 30(150)A-LP1

CW & Pulsed Measurements 50mW - 150W 20mJ - 300J

Recommended Use: Short term measurement to 150W
 Broadband absorber: general use
 LP1 absorber: high energy, long pulses
 Special Features: Compact, convection cooled

Absorber:	Broadband: 0.19-20 μ m, LP1: 0.25 – 2.2 μ m	
Aperture:	ϕ 17mm	
Digital Power Scales:	150W / 30W for BB, 150W / 30W / 3W for LP1	
Maximum Power:	150W for 50s, 100W for 90s 30W continuous	
Maximum Average Power Density:	BB: 20KW/cm ² , LP1: 35KW/cm ²	
Power Noise Level:	3mW	
Power Accuracy:	\pm 3% ^a	
Maximum Energy Density J/cm ² :	Broadband	LP1
<100ns	0.3	0.05
1 μ s	0.5	0.3
0.5ms	5	20
2ms	10	50
10ms	30	250
Response Time with Display (0-95%):	1.2s	
Linearity with Power:	\pm 1%	
Energy Scales:	LP1: 300J / 30J / 3J BB: 100J / 30J / 3J	
Energy Threshold:	20mJ	
Cooling:	Convection	
Note a: LP1 heads have relatively large spectral variation in absorption and have a calibrated spectral curve at all wavelengths in their spectral range. When used with the Nova II (software v 1.59 and above) or USB1 (v1.17 or above) supporting this feature, accuracy is \pm 3% for any wavelength from 250 to 2200nm. When used with displays not supporting this feature, accuracy will be \pm 3% for wavelengths 532nm, 755nm, 1064nm and 2100nm and \pm 6% for other wavelengths in the spectral range 400 – 1100nm.		

30(150)A



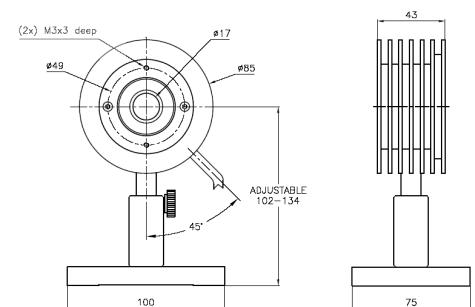
30(150)A- HE / HE1

CW & Pulsed Measurements 50mW - 150W 50mJ - 200J

Recommended Use: High energy and average power pulsed lasers
 HE: YAG and harmonics, Holmium, Erbium
 HE1: Ruby
 Special Features: High damage threshold for short pulses, high average power

Absorber:	HE: 0.19 – 0.625 μ m, 1.064 μ m, 2.1 μ m, 2.94 μ m HE1: 0.19 – 0.76 μ m, 2.9 μ m	
Aperture:	ϕ 17mm	
Digital Power Scales:	150W / 30W / 3W	
Maximum Power:	150W for 50s, 100W for 90s 30W continuous	
Maximum Average Power Density:	500W/cm ²	
Power Noise Level:	3mW	
Power Accuracy:	\pm 3% ^a	
Maximum Energy Density J/cm ² ^a :	Single shot	10 – 50Hz
<100ns	5	2
0.5ms	100	25
2ms	150	40
Response Time with Display (0-95%):	3.8s typ	
Linearity with Power:	\pm 1.5%	
Energy Scales:	200J / 30J / 3J	
Energy Threshold:	50mJ	
Cooling:	Convection	
Note a: For shorter wavelengths, derate to values shown:		
	Wavelength	Derate to value
	355nm	50%
	266nm	50%
	193nm	10%.

30(150)A-HE/HE1



Ordering information		
Item	Description	Ophir P/N
30(150)A	Power/energy meter 30W continuous, 150W intermittent	1Z02608 / 7Z02608 (RoHS)
30(150)A-LP1-V1	As above with high damage threshold LP1 coating	1Z02657S / 7Z02657S (RoHS)
30(150)A-HE	30/150 Watt power/energy meter for wavelengths 0.19 – 2.94 μ m. Energy calibrated for 0.19-0.6 μ m and 2.9 μ m	1Z02380 / 7Z02380 (RoHS)
30(150)A-HE1	30/150 Watt power/energy meter for wavelengths 0.19-0.76 μ m. Energy calibrated for 0.694 μ m (Ruby)	1Z02382 / 7Z02382 (RoHS)

Quasar: Some of the above heads are available with integral Quasar bluetooth module for wireless transmission direct to PC. See Ophir catalog for more details.