

- USB 3.0, large area & resolution (2.35 MP).

- 12 bits digital output for pulsed/CW lasers.

- Built-in software feature for M² or depth of focus calculation using the machine Z-Axis.

Interchangeable filters.	
Maximum BPP	Max. input angle – 25 deg.
Maximum power density	1,000,000 W/cm² (contact factory)
Power measuring	With user's pre-calibration at a selected point
Power range @900/1070 nm	CW 1-2500 W, Pulsed 1 – 1000 W
Output power from back side of beam sampler	With beam dump – no significant output power
Cooling conditions	Filtered pressurized air of 6-8 Bar
Sensor type	CMOS – 1/1.2" format
Beam width accuracy	±1.5%
Power accuracy	±5%
Position resolution	1 μm
Pixel Size	5.86 μm x 5.86 μm
Pixel Bit Depth	8/12 bits
Background Subtraction	User activated
Trigger	 Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec
Power Requirements	~2 Watt (Via USB 3.0 interface)
Dimensions (L x W x H) in mm	147 x 105 x 48
Weight (typical)	Sensor head with cable ~ 1500 gr.
Min. Hardware Requirements	CPU i3 1.6 GHz, 4 GB RAM
Interface	USB 3.0, Windows 7/8/10 (32 & 64 bit)
Mechanical Interface	Post mounting: 2 concentric opposite M4, 6 mm depth
Operating Temperature	C° – 35°0

Note: The device should be handled carefully when exposed to high power, not exceeding 5 seconds continuously.

Measures beam where it matters most - at the laser's working plane

Specifications

<u>Specifications</u>	
Laser Type	CW & Pulsed
Beam width resolution	1 micron or better
Beam Size	Ø75 μm - Ø6 mm
Spectral Response	350 – 1310 nm
Resolution (H x V pixels)	1920 x 1200
Sensor Active Area (mm)	11.34 x 7.13
Gain Control	x24
Dynamic Range	60 dB , 12 bit
Exposure Speed	39 μsec to 20 sec
Frame Rate	40 fps (8 bit)
Working Distance	Optical distance from input surface to sensor is 40.7 ± 0.2 mm
Maximum BPP	Max. input angle – 25 deg.
Maximum power density	1,000,000 W/cm² (contact factory)
Power measuring	With user's pre-calibration at a selected point

Ordering Information

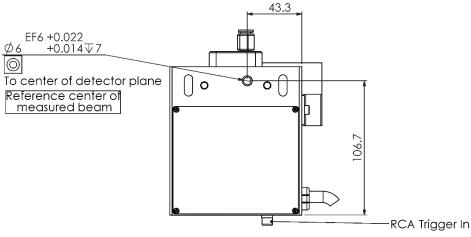
Model LAM-U3: A camera for 350 - 1310 nm with motorized built-in filter wheel with high power attenuator and mounting adaptor, a set of interchangeable filters, USB3.0 cable, software and user manual on Flash Drive, carrying



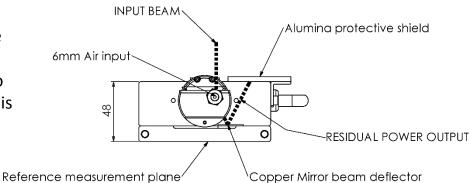
Website: http://www.dumaoptronics.com E-mail: sales@duma.co.il

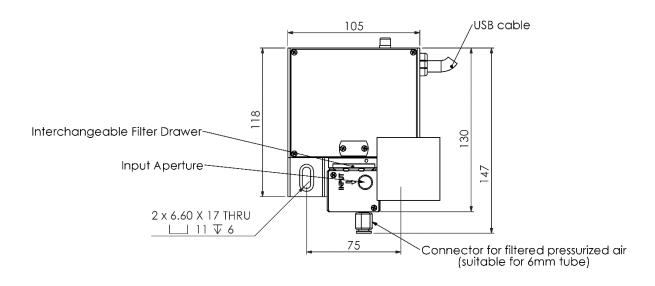


LAM U3 - Analyzer



Working distance between input aperture plane to measuring plane is about 41 mm.





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