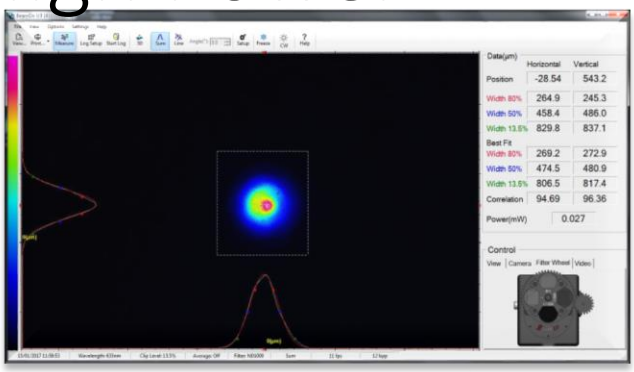
BeamOn U3 High Power



USB 3.0

Integrated Filter Wheel

Advanced software features

Innovative High Power Beam Profiler (1/1.2") based on advanced beam sampling in conjunction with high resolution camera

Measurement capability of a few kWatts laser power

Versatile – Measures **Profile**, **Power** and **Position**

Specifications

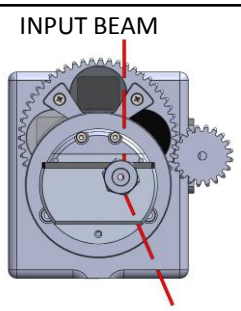
Beam Size Range	⌀100 µm - ⌀6 mm
Spectral Response	350 – 1310 nm
Power Range @900/1070	CW 1-2500 W, Pulsed 1 – 1000 W
Maximum Power Density	100,000 W/cm² (contact factory)
Emerging Power towards Beam Dump	90% of input power
Power Measuring	After user's calibration
Gain Control	1 -24 dB
Dynamic Range	60 dB not including filters
Shutter Speed	39 µsec to 20 sec
Built-in Automatic Filter Wheel with 3 Filters:	-Unpopulated -ND8 -ND200 -ND1000
Working Distance	49 mm (contact factory)
Maximum BPP	Max. input angle – 25 deg.
Resolution (H x V pixels)	1920 x 1200

Pixel Size	5.86 µm x 5.86 µm
Frame Rate	40 fps (8 bit)
Sensor Active Area (mm)	11.34 x 7.13
Interface	USB 3.0, windows XP/7/8/10 (32 & 64 bit)
Pixel Bit Depth	8/12 bits
Synchronization	•Software •Hardware (external trigger signal)
Exposure Control	Programmable via GUI
Housing Size (L x W x H) in mm	64 x 115 x 73.5
Power Requirements	~2 Watt (Via USB 3.0 interface)
Weight (typical)	350 gr.
Mechanical Interface	Post mounting: 2 concentric opposite 8-32 UNC, 6 mm depth
Cooling Conditions	Filtered pressurized air of 6-8 Bar
Operating Temperature	0° – 35° C

Ordering Information

Model BeamOn U3HP- VIS NIR: A camera for 350 – 1310 nm with motorized built-in filter wheel with a set of 3xND filters (ND8, ND200, and ND1000) in housing, beam sampler with filter drawer, USB3.0 cable, software and user manual on Flash Drive, carrying case.

**Standard drop-in filter is Hot Mirror, allowing visible light to pass through.*



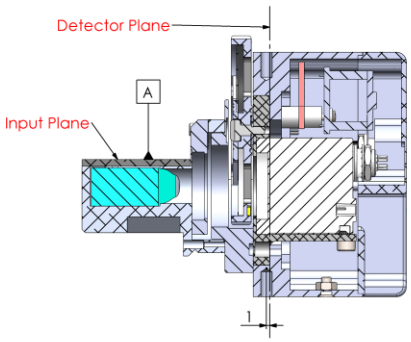
DUMA OPTRONICS LTD.

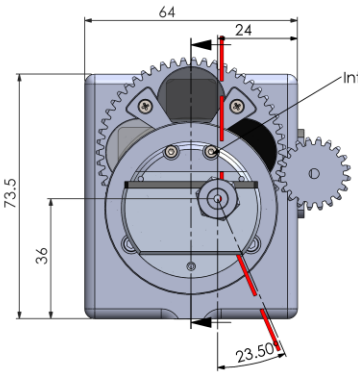
Website: http://www.dumaoptronics.com

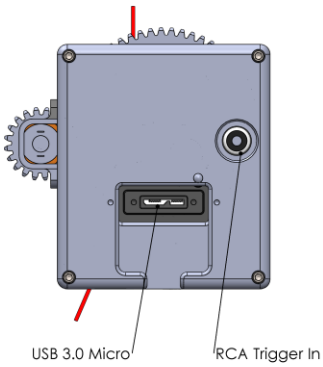
E-mail: sales@duma.co.il

July 2019

BeamOn U3 High Power



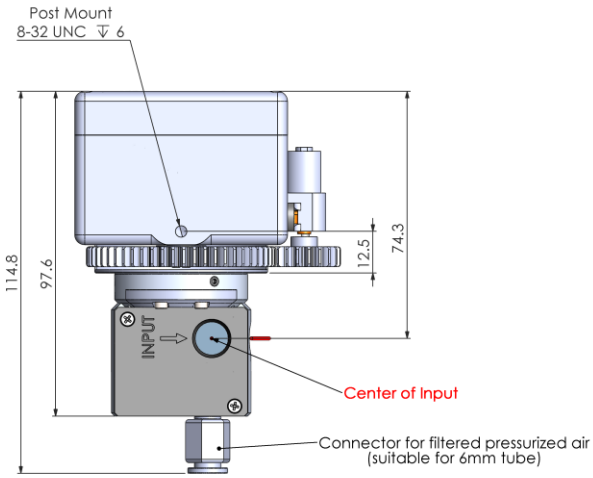




Optical distance from Input plane A to Detector Plane: 49 ±0.5

Warning: For focused beams, Focal Point must be at least 30 mm after input plane A (towards the sensor).

Focusing on input optics will damage the optical system!



Dimensions are in mm.