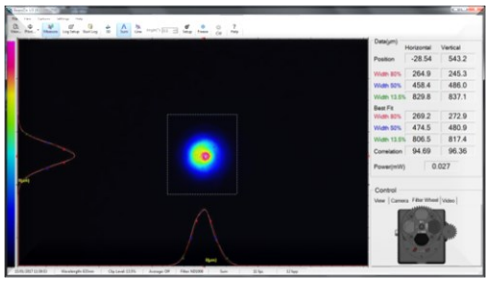
BeamOn U3

Innovative Beam Profiler

(1/1.2") USB 3.0



High resolution (2.35 MPixel) 12 bit dynamic range

Complete test station with built-in motorized Filter Wheel and full set of accessories

Multiple active areas for multi beam analysis

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

Specifications

Laser Type	CW & Pulsed
Beam width resolution	1 micron or better
Resolution (H x V pixels)	1920 x 1200
Beam Size	⌀75 µm - ⌀6 mm
Spectral Response	350 – 1600 nm (VIS NIR)
Sensor Active Area (mm)	11.34 x 7.13, sensor can be divided into multiple active areas, working in parallel for up to 400 sectors (NEW)
Gain Control	1 -24 dB
Dynamic Range	60 dB, 12 bit
Shutter Speed	39 µsec to 20 sec
Frame Rate	40 fps (8 bit) 30 fps (12 bit) – up to 550 fps@ fast mode (NEW)
Pixel Size	5.86 µm x 5.86 µm
Pixel Bit Depth	12 bits
Beam width accuracy	±1.5%

Synchronization	•Software •Hardware (external trigger signal)
Exposure Control	Programmable via GUI
Accessories	-IR Edge Filter -SAM3-C -RDC -C-Mount Filter
Power Requirements	~2 Watt (Via USB 3.0 interface)
Housing Size (L x W x H) in mm	64 x 46 x 73.5
Weight (typical)	300 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 8-32 UNC 6 mm depth at the detector plane Optical attachments & filters: C-mount
Built-in Automatic filter wheel	With mounted filters: ND8, ND200, ND1000, one unpopulated.

Wavelength	633	980	1310	1550
Saturation	20 µW/mm²	100 µW/mm²	0.2 W/mm²	2 W/mm²
Sensitivity	Better than 1 nanoW/mm²	Better than 1 nanoW/mm²	200 µW/mm²	2 mW/mm²

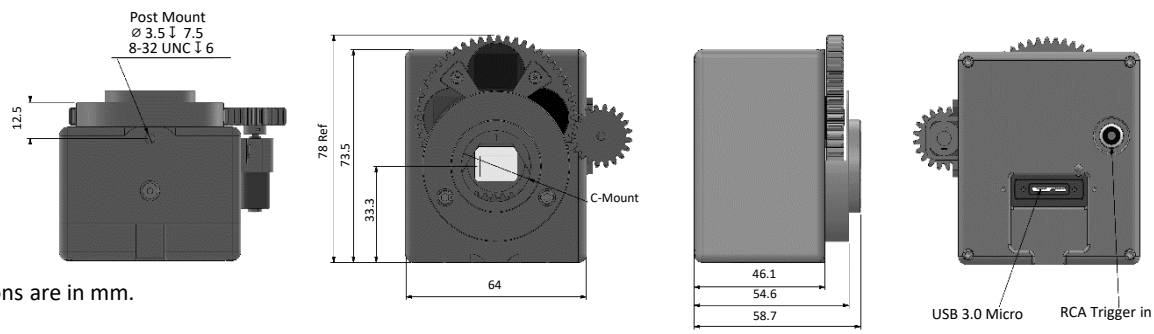
Ordering Information

Model BeamOn U3- VIS NIR: A camera for 350 – 1600 nm with motorized built-in filter wheel, USB3.0 cable, application software on CD/Flash Disk, mounting post, 35 mm hood for ambient light obstruction, carrying case.

SAM3-C: Attachment for high power lasers attenuation (up to 20 W)

IR-Edge Filter: C-mount filter for IR Edge.

RDC: Attachment for beam reducer (ratio 2x1)



Dimensions are in mm.

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