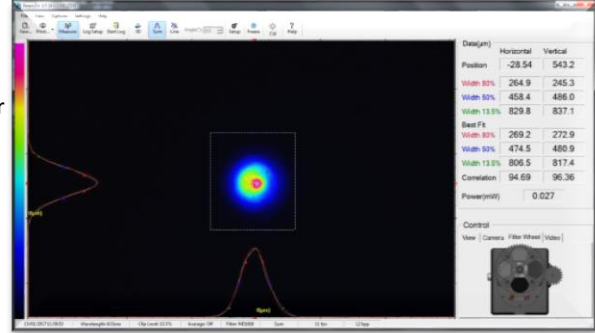


# BeamOn U3

## Innovative Beam Profiler (1/1.2") with integrated filter wheel

### Main Features:

- High resolution (2.35 MegaPixel) having 12 bit dynamic range
- Versatile – Measures Profile, Power and Position
- Complete test station with built-in Filter Wheel and full set of accessories including high power beam sampler
- Portable – based on USB 3.0
- Motorized filter wheel controlled by software



### Main Specifications:

New advances in software and the introduction of the USB 3.0 camera, offering 40 frames per second at 2.35 MP

<b>Spectral Response</b>	350 – 1600 nm (VIS NIR)	<b>Resolution (H x V pixels)</b>	1920 x 1200
<b>Sensor Active Area (mm)</b>	11.34 x 7.13	<b>Pixel Size</b>	5.86 $\mu\text{m}$ x 5.86 $\mu\text{m}$
<b>Gain Control</b>	1 -24 dB	<b>Frame Rate</b>	> 25 fps (AOI)
<b>Dynamic Range</b>	60 dB not including filters	<b>Interface</b>	USB 3.0
<b>Shutter Speed</b>	39 $\mu\text{sec}$ to 20 sec	<b>Pixel Bit Depth</b>	12 bits
<b>Beam Size</b>	Down to 75 microns, @ min. beam size- power restrictions	<b>Synchronization</b>	•Software •Hardware (external trigger signal)
<b>Built-in Automatic Filter Wheel with 3 Filters:</b>	-Unpopulated -ND8 -ND200 -ND1000	<b>Exposure Control</b>	Programmable via GUI
<b>Accessories</b>	-SAM3-C -Reducer -C-Mount Filter	<b>Housing Size (L x W x H) in mm</b>	64 x 46 x 73.5
		<b>Power Requirements</b>	~2 Watt (Via USB 3.0 interface)
		<b>Weight (typical)</b>	300 gr.
		<b>Mounting</b>	2 concentric opposite 8-32 UNC 6 mm depth at the detector plane

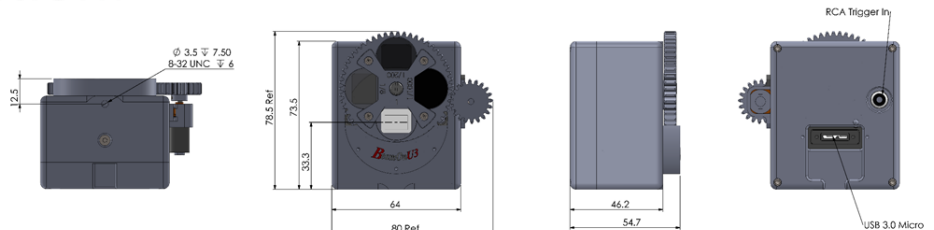
<b>Wavelength</b>	633	980	1310	1550
<b>Saturation</b>	20 $\mu\text{W}/\text{mm}^2$	100 $\mu\text{W}/\text{mm}^2$	0.2 W/ $\text{mm}^2$	2 W/ $\text{mm}^2$
<b>Sensitivity</b>	Better than 1 nanoW/ $\text{mm}^2$	Better than 1 nanoW/ $\text{mm}^2$	20 $\mu\text{W}/\text{mm}^2$	200 $\mu\text{W}/\text{mm}^2$

## 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/Disk on key, carrying case.

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

**RDC:** Attachment for beam reducer (ratio 2x1)



Dimensions are in mm.

## DUMA OPTRONICS LTD.