



BeamOn X - E

Expanding your Profiling Capabilities

UPGRADED
2025 Revision



- Industry's most cost-effective device.
- Minimum beam measurements down to 30 microns.
- Measures accurate position and profile.
- Maximum frame rate – over 50 Hz.
- Wide spectral range 350 - 1310 nm
- 1/1.8" Size

Specifications

Laser Type	CW & Pulsed
Beam width resolution	1 micron or better
Beam Size	ø30 µm - ø4.5 mm
Spectral Response	350 - 1310 nm
Resolution (H x V pixels)	3840 x 2160
Sensor Active Area (mm)	7.6 (W) x 4.3 (H) Sensor can be divided into multiple active areas, working in parallel for up to 400 sectors (NEW)
Dynamic Range	60 dB
Exposure Speed	32 µsec – 2 sec
Frame Rate	50 fps – up to 450 fps @ fast mode (8 bit + ROI)
Sensor type	CMOS – 1/1.8" format
Beam width accuracy	±2%
Position resolution	1 µm
Pixel Size	2 µm x 2 µm
Pixel Bit Depth	12 bits

Sensitivity	~0.5 nW/cm ² @ 633 nm ~15,000 nW/cm ² @ 1310 nm (15 µW/cm ²)
Saturation	~1 W/cm ² , no filters
Power Measuring	With user's pre-calibration at a selected point
Damage Threshold	50 W/cm ² with filters
Background Subtraction	Automatic
Trigger	• Internal Software
Power Requirements	~2 Watt (Via USB 3.0 interface)
Dimensions (L x W x H) in mm	ø63 mm x 51 mm deep
Weight (typical)	300 gr with cable
Min. Hardware Requirements	CPU i5 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766
Interface	USB 3.0, Windows 7/8/10 (32 & 64 bit)
Mechanical Interface	Post mounting: 8-32 UNC, 6 mm depth
Operating Temperature	0° – 35° C

Ordering Information

Model BEAMON-X-E-FW: Complete system with a camera, post, built-in filter wheel with a set of 3 filters (NG4,NG9,NG10) in housing, software on Flash Drive, carrying case.

Model BEAMON-X-E: Complete system with a camera, post, software on Flash Drive, carrying case.

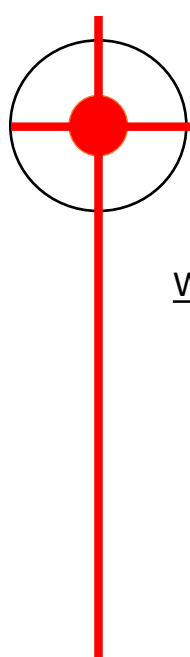
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April 2025

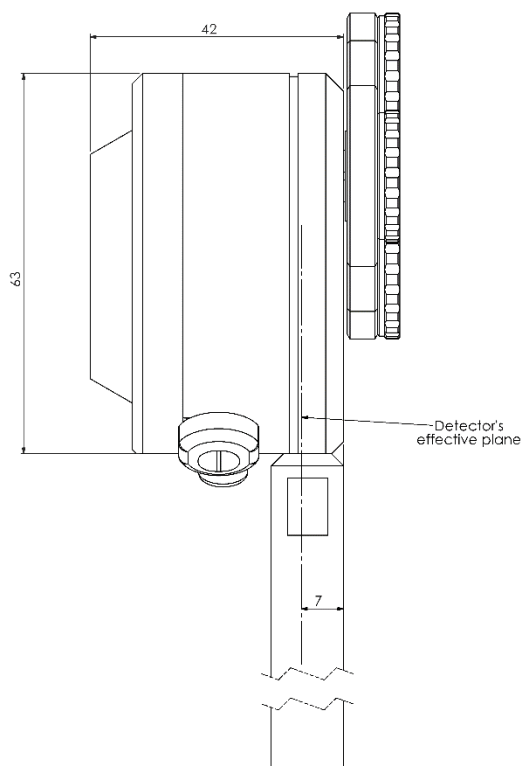
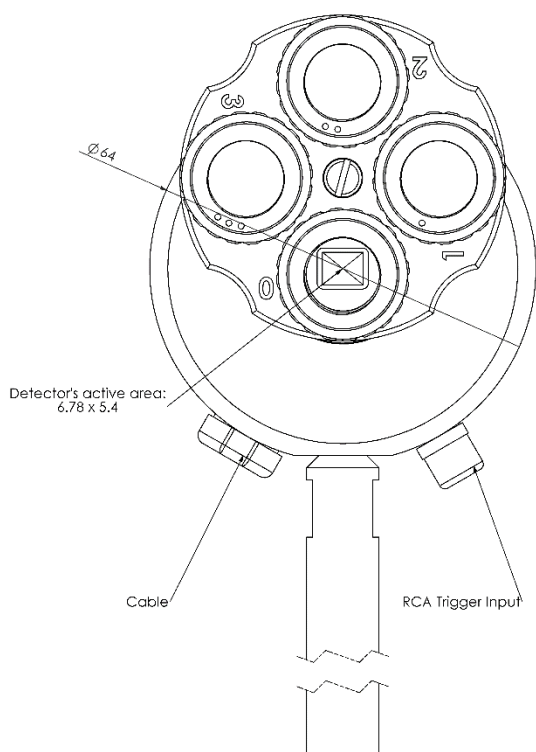




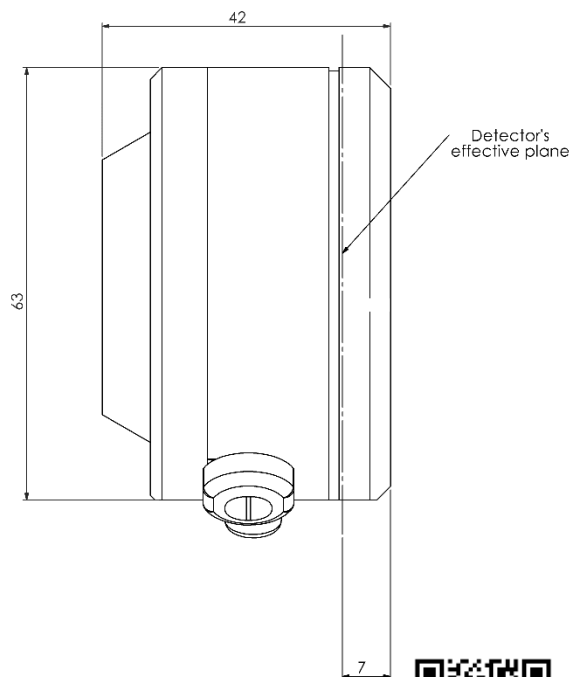
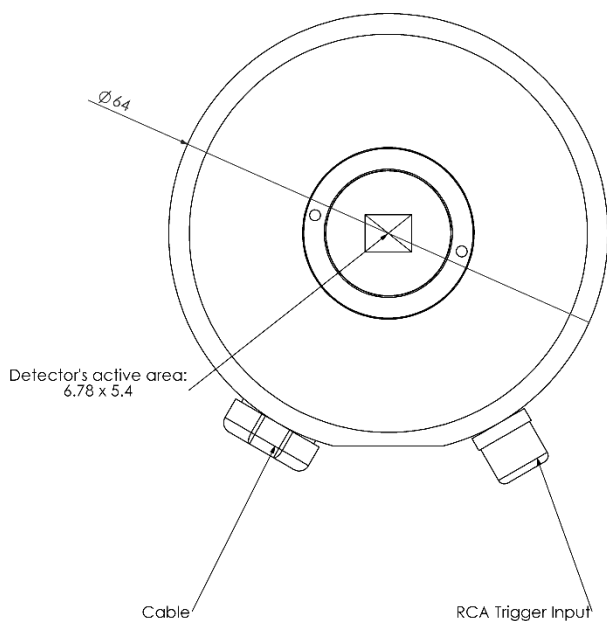
BeamOn X - E

Expanding your Profiling Capabilities

With Filter Wheel & Post



Without Filter Wheel



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