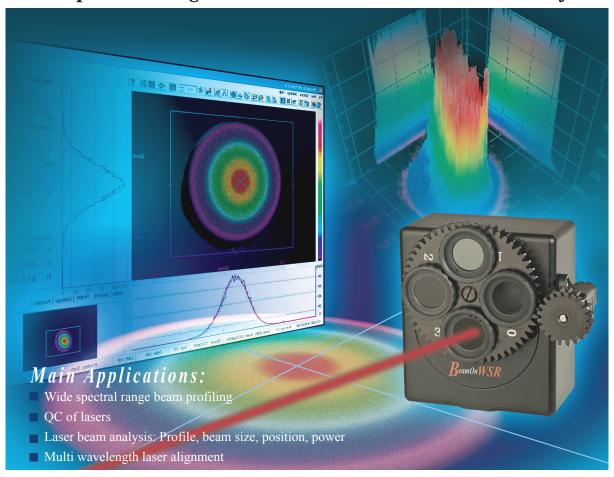


Wide Spectral range 190nm to 1600nm CCD Beam Profiler



New Technology, one sensor without distorting coatings

- Unique: Wide spectral range 190nm to 1600nm
- Versatile: A complete test station measuring Beam Profile, Beam centroid and Position, both for CW and pulsed beams
- **Portable:** Based on a USB 2.0 interface for notebooks (or desktops)
- Easy to use: user-friendly software, on-line help routine
- Accessories: Complete set for larger beams and high power attenuation

Main Software Features

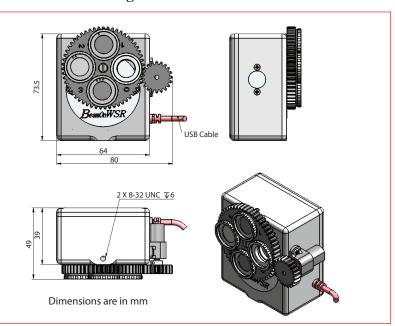
- Real time beam size and gausian fit (or top hat)
- 2D/3D plots of beam in real time
- Adjustable trigger laser
- Software controlled electronic shutter & gain
- Video with playback, snapshot files
- Data exporting to another computer via RS232 or TCP/IP
- Data logging with detailed statistics
- DLL package to control software from your application
- Automatic Pass/Fail analysis report
- Motorized filter wheel for wider dynamic range
- zooming
- Averange





Specifications

Head Drawing:



CCD Head Specifications

Camera type:	WSR Wide Spectral Range
	CCD,½" format
Pixel size:	8.6μm(H)X8.3μm(V)
Sensor active area:	6.47mmX4.83mm
weight:	400 gr. with cable
Power consumption:	5V/0.6A through USB2.0 port
Accessories included:	Equipped with a built-in filter
	wheel, with 4xND 2mm thick
	filters, mounting post, one
	IR-Edge filter
Dimensions	80 mm x 78.5mm x 49 mm

General Specifications

PC interface: USB2.0 Attachment, 1.8m long
RS232 / TCP-IP: Data out
Operating temp: -10°c to 50°c (without condensation)
Storage temp: -40°c - 60°c
CE compliance

Ordering Information

The system comes with a camera, a post, a built-in filter wheel with a set of 4xND filters (ND8, ND64, ND200, and ND1000), in housing one built-in (removable) IR-edge filter, software and user manual on CD disk / DiskOnKey, carrying case.

BeamOn WSR VIS	-NIR: 350-1600nm
BeamOn WSR UV-	NIR: 190-1600nm
ND Filter:	2mm thick ND filter in mount,
	select type:8/64/200/1000
IR Edge Filter:	2.5 thick, passing over 1100nm
SAM3-A	Attachment for high power lasers
	attenuation (up to 20W)
SAM3-A-HP	Attachment for high power lasers
	attenuation (up to1kW)
RDC	Attachment for beam reducer
	(ratio 2x1)

Host Computer Requirements

Pentium IV, Dual-Core, 2GHz, 512MB RAM, 64 MB 16 bit color VGA card, resolution 1024x768, CD ROM any type, High Speed USB2.0 port, OS Win / 2000 / XP / Vista / 7 32bit / 7 64 bit / 8/10.

System Performance with Software

System Response
VIS - NIR 350-1600nm
UV - NIR 190-1600nm(*)

(*) Windowless CCD

()macress c.c.b	
Max frame rate:	25Hz, excluding slow shutter operation
Image resolution:	720X576
Shutter speed:	1/50x256sec to 1/100,000sec, 17 steps
	manual or automatic
Gain control:	6dB to 41dB, 2dB steps manually
	or automatic
Null:	Null function is available to
	automatically subtract background
Optical dynamic rang	e:up to 1X10 15 using all filters and software
	controlled electronic shutter and gain
Damage threshold:	50W/cm ² or 1J/cm ² with filters
Sensitivity:	160μW/cm ² at 1500nm shutter x 256
Saturation:	1mW/cm ² at 633nm with no filters installed
	2W/mm ² at 1550nm
Operation with	Ability to capture and replay images from
pulsed lasers:	slowly pulsing lasers (1-100Hz) while
	filtering out frames with no laser pulse.
	Gain control and external filter make it
	easy to obtain optimal intensity
Triggering:	In pulsed mode set threshold by slide bar
	to display frames with captured pulses
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