

# 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



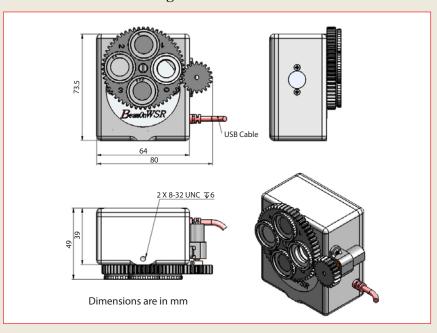
## **DUMA OPTRONICS LTD.**

1st Hazait St., P.O.Box 3370 Nesher 3675018, Israel Tel:972-4-8200577 Fax: 972-4-8204190 Website:http://www.duma.co.il E-mail:sales@duma.co.il



# **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

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-I	NIR: 350-1600nm
BeamOn WSR UV-N	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.

#### System Performance with Software

**Dimensions** 

#### **System Response**

VIS - NIR 350-1600nm UV - NIR 190-1600nm(\*)

#### (\*) Windowless CCD

Max frame rate:	25Hz, excluding slow shutter operation
Image resolution:	720X576
<b>Shutter speed:</b>	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	ge:up to 1X10 15 using all filters and software
	controlled electronic shutter and gain
Damage threshold:	50W/cm <sup>2</sup> or 1J/cm <sup>2</sup> with filters
Sensitivity:	160μW/cm <sup>2</sup> at 1500nm shutter x 256
Saturation:	1mW/cm <sup>2</sup> at 633nm with no filters installed
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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