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The application program is compatible with Windows 7/8/10 OS (32 & 64 bit). For custom integration, an ActiveX package software is offered as standard.

### Ordering Information

**BeamOn-VIS-NIR-SAM3-HP-A:** 350-1310nm spectral range with high power attenuator and mounting adapter

### Overview

Duma's High Power Laser Measuring Device is a robust all-in-one instrument with built-in state-of-the-art air-cooled beam dump, operating from 350 - 1600 nm lasers. It will measure  $M^2$ , BPP (Beam Propagation Parameters), Beam size at its focal position down to less than 100 microns. A unique feature allows measurement of power variation at a rate of 5 times per second. A special user-friendly software will display results on an industrial computer or using a USB interface for customer's computer.

### Specifications

Beam size range	$\varnothing 200 \mu\text{m} - \varnothing 4.5 \text{mm}$
Spectral region	350 - 1310 nm
Power range @900/1070 nm	CW 1-2500 W, Pulsed 1 - 1000 W
Maximum power density	100,000 W/cm <sup>2</sup>
CCD focal position	Optical distance from input surface to sensor's active surface is $38.1 \pm 0.2 \text{mm}$
Power from back side of beam sampler	90% of input power
Power measuring	After user's calibration

### Mechanical Specifications

Dimensions	$\varnothing 64 \text{mm} \times 92 \text{mm}$ deep
Cooling Conditions	Pressurized air of 6-8 Bar
Environment Operating Temperature	0 - 35 C
Weight	350 gr with cable

### CCD Specifications

Camera type	Monochrome CCD 1/2" format
Sensor active area	6.47 (w) x 4.83 (h) mm (1/2" compatible)
Pixel size	8.6 $\mu\text{m}$ (H) x 8.3 $\mu\text{m}$ (V)
Power consumption	12 V, 0.9 W
Shutter speed	1/50 s to 1/100,000 sec, 9 steps manually, or automatically
Software controlled gain	6 - 60 dB manually, or automatic, 16 steps
Maximum frame rate	25 Hz
Null	In CW mode, null function is available to automatically subtract background
Operation with pulsed lasers	Ability to capture and replay pictures and statistics from a slowly pulsing laser (1-100 Hz) while filtering out frames with no laser pulse. Gain control and external filters make it easy to obtain optimum intensity
Trigger	In pulsed mode, sliding bar control allows setting of threshold so as to display only frames with captured pulses
Max. frequency for single pulse display	10 kHz

Inquiry Form