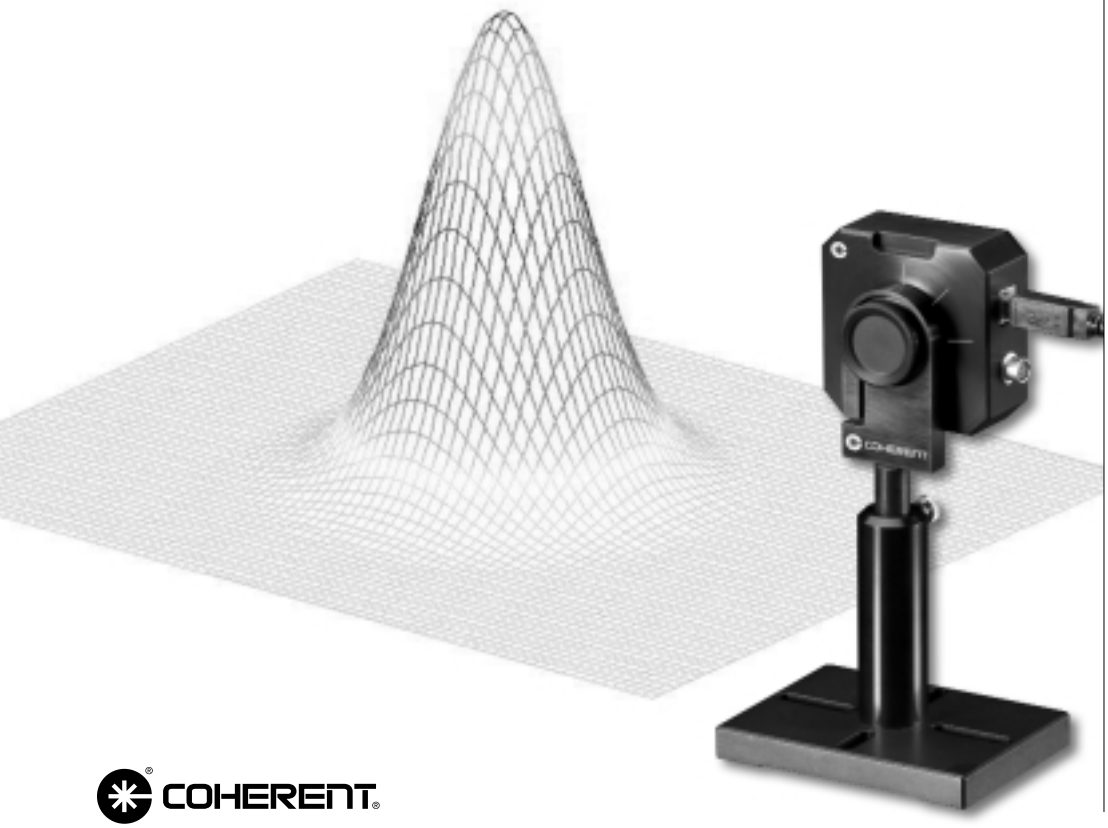
LaserCam-HR

High-Resolution Laser Beam Profiling System

Introducing LaserCam-HR™, the first in a series of high-performance beam profilers from Coherent. Coupling the speed and ease of use of the USB 2.0 PC interface with popular BeamView-USB™ Analyzer PC beam analysis software, the new LaserCam-HR is a powerful, yet easy to use laser beam profiler.

LaserCam-HR features a large-area, windowless CMOS sensor, providing an easy target for your laser beam. The 1.3 million, 6.7 µm square pixels provide outstanding resolution for the analysis of smaller or focused beams. This combination provides a very large range of measurable beam diameters from 270 µm (40 pixels) to 6 mm ($1/e^2$).

A complete beam profiling system, LaserCam-HR includes a copy of BeamView 4.3 laser beam analysis software. This new release of BeamView-USB is compatible with the USB 2.0 PC serial interface bus and Windows XP. It is a powerful combination, and the obvious choice for embedded or remote applications, as well as production and lab work. The LaserCam-HR lets you advance your laser beam analysis into the 21st century.



FEATURES

- ***USB 2.0 interface means no more framegrabber cards***
- ***Large area, 2/3" 1280 x 1024 matrix, CMOS sensor, with 1.3 million pixels***
- ***Coherent Adaptive Pixel Technology (CAPT) pixel by pixel offset, linearity and blemish correction***
- ***1000:1 signal to noise – 10-bit operation shows the details other profilers miss***
- ***6.7 µm x 6.7 µm pixel size***
- ***CW and Pulsed operation including asynchronous triggering***
- ***Easy "plug & play" installation***
- ***Single cable operation – no power supply required***
- ***Compact 68 x 68 x 34 mm package – fits into small spaces***
- ***360° Rotational camera mount – convenient and flexible***
- ***Lens adapter allows interface to all Coherent C-mount accessories***

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		LaserCam-HR
Specifications	Matrix Size	1280 x 1024 pixels
	Pixel Size	6.7 x 6.7 µm
	Sensor Active Area	8.5 x 6.8 mm (2/3 inch format)
	Spectral Range	300 to 1,100 nm (400 to 1,100 with LDFP)
	Glassless Sensor	Low Distortion Faceplate is removable
	Low Distortion Faceplate (LDFP)	NG10 glass, nominal OD = 2.3
	Electrical Interface	USB 2.0
	Modes of Operation	Pulsed, CW
	Pulsed Mode Trigger Methods	Trigger In (TTL)
	Maximum Pulse Trigger In Rate	100 Hz (without averaging adjacent pulses)
	Maximum Frame Rate	15 FPS (live video, no calculations), 10 FPS (capture with calculations)
	CW Saturation @ 633 nm	40 mW/cm² (with LDFP), 16 µW/cm² (without LDFP)
	CW Saturation @ 1064 nm	800 mW/cm² (with LDFP), 320 µW/cm² (without LDFP)
	USB 2.0 Connector	5-pin standard USB cable included
	Trigger Connector	BNC connector, trigger cable included
BeamView-USB Analyzer PC Software	Measures	Centroid & peak locations, pointing stability beam width/diameter, divergence, gaussian fit analysis, elliptical analysis and uniformity analysis
	Beam Width Calculations	Multiple, including the ISO standard d4 Sigma
	Displays	2-D, 3-D and choice of 4 color styles
	Data Logging	For long-term laser stability analysis
	Data File Formats	Binary, ASCII, Bitmap, JPEG/JIF and many more
	Operating System Compatibility	Windows XP (service pack 1 or higher)
	Pass/Fail Analysis	Of all measurements for production automation
	Statistical Analysis	Of all measured laser parameters
	Background Noise Level Monitoring	Alerts user when background correction is invalid
	Password Protection	Limits unauthorized access to system configuration
	Automated Apertures	Display calculated beam dimensions
	User-Defined Apertures	Limit the scope of data for "Power-in-the-Bucket" calculations
	Cursors	Display centroid, comparative and fit data
	Crosshair	Defines bore-sighting central axis, centroid and/or peak locations
	Total Power or Energy Calibrated with an External Meter	Enables power density or fluence measurements
	Features	On-line help, hot function keys, graphical pan, zoom and many more
Part Number	BeamView-USB with LaserCam-HR	1068156

COHERENT

COHERENT, INC.
7470 SW Bridgeport Road
Portland, OR 97224-7286
phone (800) 343-4912
(971) 327-2700
fax (971) 327-2778
e-mail LMC.sales@Coherent.com
web www.Coherent.com

Japan +81 (3) 5635 8700
Benelux +31 (30) 280 6060
France +33 (0)1 6985 5145
Germany +49 (6071) 9680
Italy +39 (02) 34 530 214
UK +44 (1353) 658 833

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent offers a limited warranty for all LaserCam-HR systems. For full details of this warranty coverage, please refer to the Service and Support section at www.Coherent.com or contact your local Sales and Service Representative.

Printed in the U.S.A. MC-061-05-0M1005Rev.B

Registered to ISO 9001:2000

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