

LaserCam-HR II

High-Resolution Laser Beam Profiling System

LaserCam-HR II is our second generation of digital USB 2.0 bus-powered, high-resolution, large-area cameras. The LaserCam-HR II family includes 1/2-inch and 2/3-inch format CCD cameras that provide greater dynamic range and lower noise than the previous generation. The cameras include Coherent's BeamView software package, long recognized as a flexible, fast, and user friendly beam diagnostics software platform. The UV model provides long-term UV sensor stability.



FEATURES & BENEFITS

- USB 2.0, 12-bit and 14-bit digital output
- Large-area arrays
- Compact 68 x 68 x 43 mm package
- Metric and English mounts included
- CW and pulsed operation including external triggering
- Variable exposure time
- User-variable trigger delay
- · C-mount thread for additional accessories

OPTIONS & ACCESSORIES

- Scientific
- UV Lasers
- Telecommunication Sources
- Military Laser Systems



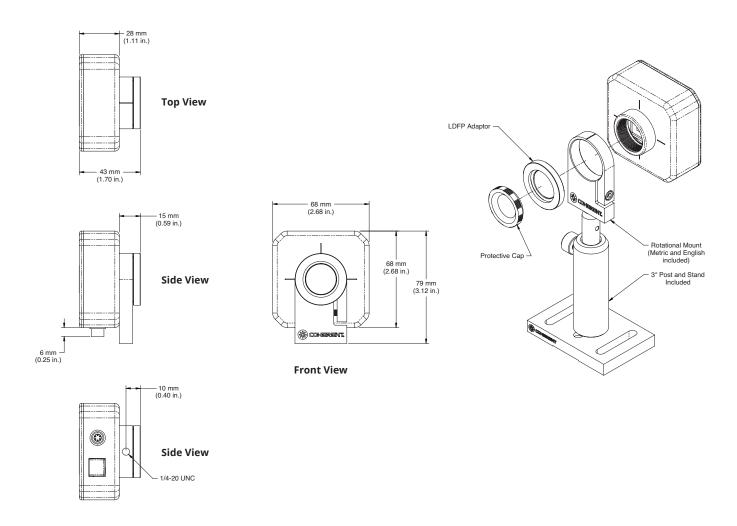
SPECIFICATIONS ¹	LaserCam-HR II 1/2-inch	LaserCam-HR II 2/3-inch	LaserCam-HR II UV 2/3-inch	
Sensor Elements (pixels)		1280 x 1024		
Effective Pixel Resolution (µm)	n/a	n/a	20 x 20	
Pixel Size (µm)	4.6 x 4.6	6.5 x 6.5	n/a	
Sensor Active Area (mm) (H x V)	5.9 x 4.8	8.3 x 6.6	8.3 x 6.6	
Camera Bit Depth	12-bit	14-bit	14-bit	
Spectral Range (nm) without LDFP with LDFP included with BIP-12F accessory	190 to 1100¹ 400 to 1100 190 to 355	190 to 1100¹ 400 to 1100 190 to 355	190 to 355	
Recommended Beam Diameters (mm)	0.15 to 4.0 ²	0.2 to 6.0 ²	0.5 to 6.0	
Capture Modes		Continuous (CW), pulsed		
Variable Exposure Time	1 msec to 500 msec, default at 5 msec	1 msec to 500 msec, default at 5 msec	1 msec to 500 msec, default at 5 msec	
Trigger Delay (µs)	75	20	20	
Maximum Pulse Trigger in Rate ³ (Hz)	200	200	200	
Damage Threshold without LDFP	32 mJ/cm ² at 1064 nm	32 mJ/cm ² at 1064 nm	200 µJ/cm ² at 1064 nm ⁴	
CW Saturation with LDFP without LDFP with LDFP without LDFP	13 mW/cm ² at 633 nm 5 μW/cm ² at 633 nm 70 mW/cm ² at 1064 nm 340 μW/cm ² at 1064 nm	5 mW/cm ² at 633 nm 2 μW/cm ² at 633 nm 25 mW/cm ² at 1064 nm 125 μW/cm ² at 1064 nm	90 mW/cm ² at 248 nm ⁵ 90 μW/cm ² at 248 nm ⁴	
Pulsed Saturation with LDFP without LDFP	0.4 mJ/cm ² at 1064 nm 2 μJ/cm ² at 1064 nm	0.15 mJ/cm ² at 1064 nm 0.7 µJ/cm ² at 1064 nm	5 mJ/cm ² at 248 nm ⁵ 5 µJ/cm ² at 248 nm ⁴	
USB 2.0 Cable		10 ft. standard A/B cable included		
Trigger Part Number	1282868	tor BNC receptacle (trigger cable in 1282870	1360550	

¹ There is a risk of degradation in the range of 190 nm to 300 nm due to DUV exposure. The optional BIP-12F UV-to-visible fluorescence converter can be used to prevent drift.
1 It is possible to measure beams <0.2 mm in diameter, but resolution is reduced.
3 Without averaging adjacent pulses.
4 Without LDFP-UV.
5 With LDFP-UV.



MECHANICAL SPECIFICATIONS

LaserCam-HR II





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Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice. Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all LaserCam-HR II Beam Diagnostic Cameras. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative. MC-135-02-0M0318Rev.C Copyright ©2018 Coherent, Inc.