

LINE CONFOCAL SENSOR LCI1220

With sampling speeds up to 5 kHz and the ability to generate 27 648 000 data points per second, the LCI1220 line confocal sensor is the fastest sensor on the market capable of capturing 3D tomography, 3D topography, and 2D intensity data simultaneously.

FocalSpec® LCI1220

Field of view (mm)	11.6
Resolution X (µm)	6.7
Z-repeatability (µm)	0.19
Stand-off distance (mm)	20.6
Measurement range (mm)	3.0
Scan rate at full measurement range (Hz)	3000
Max. scan rate (Hz)	16 000
Number of points/profile	1728
Max. surface slope on mirror (deg)	± 20
Dimensions (H x W x D) (mm)	416 x 354 x 91
Weight (kg)	19
Degree of protection (EN 60529)	IP55
Power	24 VDC, 2A
PC connectivity	10 Gigabit Ethernet (optical)
Line synchronization	Three fast isolated digital inputs, 5-24 V

FocalSpec®



LCI1220



FocalSpec® High Speed

Line Confocal Sensors

FocalSpec High Speed Line Confocal Imaging (LCI) Sensors provide the highest measurement speed and accuracy for today's high-speed smart manufacturing environments, which require continuous measurement and analysis of a large variety of surface materials. Among others, these sensors can be used in the electronics, medical, plastics, and packaging industries.

Common applications for these sensors include 3D surface profiling, 3D dimensioning and tomography, burr height, surface roughness and seal integrity inspection. They are well suited not only for continuous product quality control but also the optimization of various stages of the manufacturing process.

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