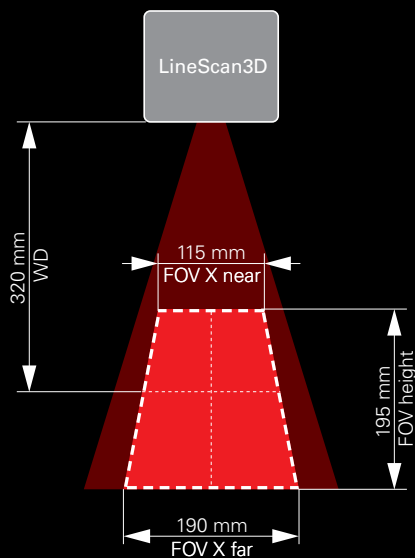


3D Measurement Made Easy!

LineScan3D – Ready-to-Use
GigE Vision 3D Sensor





Product Highlights

- GigE Vision compliant
- 1000 Hz@360 lines scan rate, 2,048 points per profile
- On-board laser line extraction using the FPGA based configurable VRmLineExtraction algorithm
- Multi-sensor setups without additional hardware
- Optional intensity image and HDR mode
- 24 V power supply, Gigabit Ethernet and RS485 IOs on industry-standard M12 connectors
- Rugged IP65/67 aluminum housing
- Dedicated redundant laser interlock circuit

Technical Data

Interfaces	
Ethernet	1000 Mbit Ethernet
IO	RS485 2 ABZ encoder inputs 1 gate/trigger input
Power	Daisy chain multi-sensor setup (up to 16 sensors) 24 V DC, +/- 10% Typical power consumption 11 W

Physical	
Dimensions	240x120x50 mm
Connectors	Power/laser interlock: M12, 8-pin A-coded male Ethernet: M12, 8pin X-coded female Trigger In: M12, 12pin A-coded male Trigger Out for daisy chain: M12 12pin A-coded female
Certification	CE
IP Rating	IP65/IP67

Accessories	
DIN rail power supply 40.8 W, 24 V DC, 1.7 A	
Power cable, 5 m	
CAT6A Ethernet cable, 5 m	
I/O cable, 5 m	
Sealing caps for the M12 connectors	

3D Measurement	
Profile Speed	1000 Hz@360 lines 338 Hz@1088 lines (full ROI)
Profile Resolution	2,048 points per profile
X Resolution	near: 62 µm per pixel far: 105 µm per pixel
Z Resolution	near: 118 µm per pixel far: 329 µm per pixel
Z Resolution with 1/64 sub-pixel calculation	near: 1.8 µm far: 5.1 µm
Output Format	16 bit profile coordinates 16 bit intensity image (optional)
Line Extraction	Integrated, robust, configurable profile algorithm, HDR mode option, 1/64 sub-pixel resolution

Measurement Field	
FOV X near	> 115 mm
FOV X far	> 190 mm
FOV height	> 195 mm
Working Distance (WD)	320 mm

Laser	
Wavelength	660 nm
Laser Class	3R, 2M option available
Laser Dimmable	yes
Interlock	Dedicated redundant laser interlock circuit

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