3D vision Gigabit Ethernet , ScanningRuler, ScanningRuler S1200, ScanningRuler S1200

Ruler-S2114







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Model Name > Ruler-S2114 Part No. > 1051660



At a glance

- · 3D imaging of stationary objects
- · Large field of view for scanning U.S. and Euro pallets
- · Accurate and reliable acquisition of factory-calibrated 3D data in millimeters
- High immunity to ambient light and contrast variation
- · Rugged housing with built-in laser light source
- · Point cloud 3D data with grayscale information

Your benefits

- 3D imaging of stationary objects reduces the effort and the costs required to develop robot picking applications
- · Large field of view within a single device allows for cost-efficient solutions
- Reliable factory-calibrated 3D measurements provide easy integration, use and replacement
- High immunity to ambient light ensures accurate measurements and increased throughput in factory conditions
- · Industrial design with a built-in laser light source ensures problem-free operation



CE

Features

Task:	Measuring, Positioning
Description:	ScanningRuler S1200 - Snapshot 3D camera with built-in class 2M laser. For field of view up to size of Euro and U.S. pallets. Factory calibrated and Gigabit Ethernet interface.
Technology:	3D snapshot
Sensing distance:	1,000 mm 2,000 mm
Data synchronization:	External trigger Free running
Grayscale measurements:	\checkmark
Spectral range:	Ca. 630 nm 690 nm
Light source:	Visible red light (laser, 660 nm, ± 15 nm)
Laser class:	2M (IEC 60825-1 : 2008-01)
Factory calibrated:	\checkmark
Example volume of view (L x W x H):	1,000 mm x 1,200 mm x 750 mm (max. image area), 800 mm x 1,200 mm x 1,000 mm (max. height range)

Performance

Image sensor:	CMOS
Maximum performance:	2.5 s per 3D image
Sensor resolution:	756 px x 512 px
Typical resolution (X, Y, Z):	1 mm 4 mm, depending on distance to camera

Interfaces

Configuration software:		
Communication interfaces:		
Operating system:		
Development environment:		
Programming interface:		
Digital inputs:		
Digital outputs:		

Mechanics/electronics

Connectors:

Connector material: Supply voltage: Power consumption: Power consumption: Ripple: Enclosure rating: Housing material: Housing color: Window material: Weight: Dimensions (L x W x H):

Ambient data

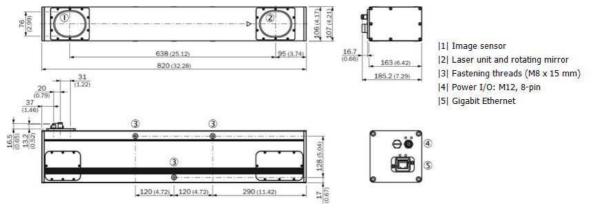
Shock load: Vibration load: Ambient operating temperature: Ambient storage temperature:

1) 2) Non-condensing Ranger Studio Gigabit Ethernet Windows 7, Windows XP Pro .Net, C++ iCon API 2 x HIGH = 10 V ... 28.8 V 1 x B-type, < 100 mA in total

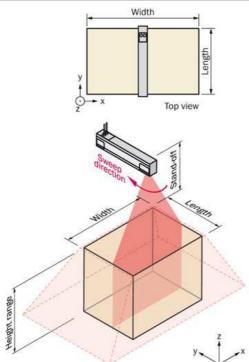
Harting Push Pull (Ethernet) M12, 8-pin male connector (power I/O) Ethernet: thermoplast/anodized aluminum, M12: nickel-plated brass 24 V DC± 20 % 10 W < 1 A < 5 Vpp IP 65 Aluminum Gray, varnished Float glass, AR-coated 13.5 kg 820 mm x 107 mm x 145 mm

15 g, 3 x 6 directions 5 g, 58 Hz ... 150 Hz 0 °C ... +40 °C ¹⁾ -30 °C ... +70 °C ²⁾

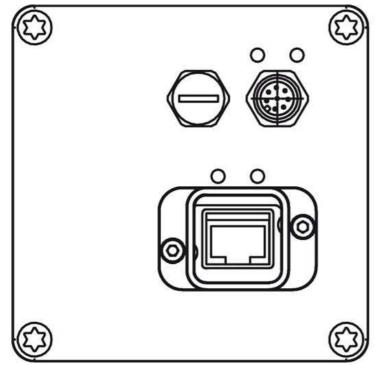
Dimensional drawing



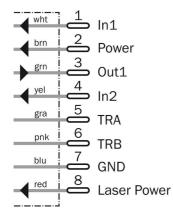
Measuring details



Connection type



Connection diagram Power I/O



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