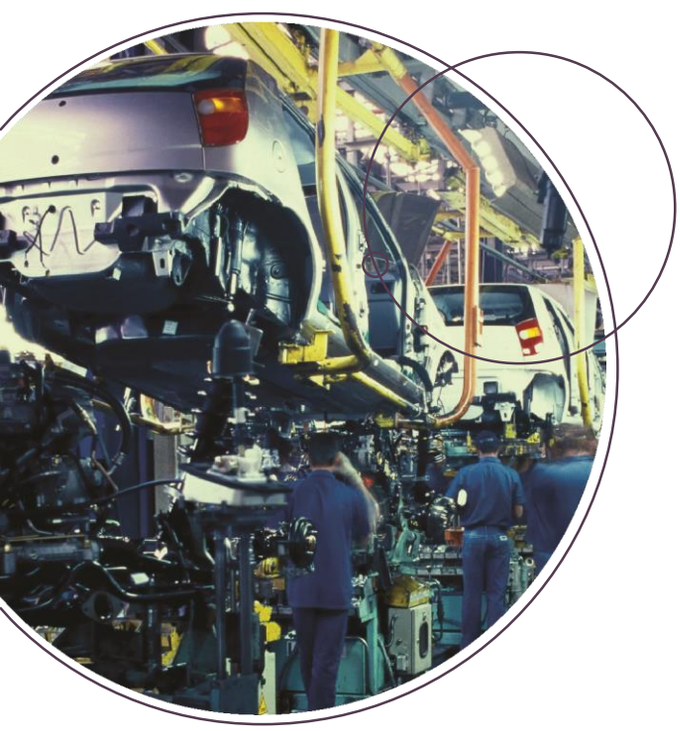
HOKUYO

UST-10LX

LASER RANGE FINDER



High Range and performance with Ethernet interface.

- 0.25° resolution
- 10 meter range
- 270° scan window
- 12/ 24VDC power supply
- IP65

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The UST-10LX scanning laser rangefinder is a compact, high performance and low power solution for obstacle detection as well as the localization of autonomous robots and automated material handling systems. This device has an Ethernet interface for communication and can obtain measurement data in a wide field of view up to a distance of 10 metres with millimetre resolution. Due to its low power consumption, this scanner is able to be used on battery-operated platforms.

Model Number	UST-10LX
Range	10m
Scanning angle	270°
Supply voltage	12VDC/24VDC (operation range 10-30V ripple within 10%
Supply current	150mA or less (during start up 450mA is necessary)
Angular resolution*	0.25°
Ambient temperature	-10°C to +50°C. Less than 85% humidity (without dew, frost)
Light source	Laser safety class 1 Laser semiconductor (IEC60825-1:2007)
Detection range	0.06m to 10m (white kent sheet), 0.06m to 4m (diffuse reflectance 10%) Max detection distance: 30m
LED display	Power supply LED display (Blue): Blinks during start up and malfunction state
EMC standards	EMI: EN61326-1: 2013, EN55011: 2009 + A1: 2010 EMS: EN61326-1: 2013, EN61000-4-2: 2009, EN61000-4-3: 2006 +A2: 2010 EN61000-4-4: 2012, EN61000-4-6: 2009, EN61000-4-8:2010
Accuracy*	±40mm
Repeated accuracy	30mm
Scan speed	25ms (motor speed 24000 rpm)
Interface	Ethernet 100BASE-TX
Input	IP reset input, photo-coupler input (current 4mA at ON)
Output	Synchronous output, photo-coupler open collector output 30VDC 5mA MAX
Protective structure	IP65
Weight	130g
Material	Front case: Polycarbonate, Rear case: Aluminium
Dimensions	50x50x70mm

*** High resolution version available with 0.125° angular resolution**
* Accuracy is correct when shipped
Note) Device may malfunction when recieving strong light, such as sunlight, directly.
Note) This sensor is not a safety device/ tool.
Note) This sensor is designed for indoor use only.
Note) This sensor is not for use in military applications.

For more information:

MYBOTSHOP
Auf dem Driesch 60
DE-50129 Bergheim
info@mybotshop.de
+49 (0) 2271 485 72 33