

The UST-20LX is an upgraded version of the UST-10LX, in this version of the UST the range is increased to 20m. This scanning laser rangefinder is still 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 meters with millimeter resolution. Due to its low power consumption, this scanner is able to be used on battery-operated platforms.

Model Number

UST-20LX

Range	20m
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°
Power source	10 to 30VDC
Light source	Laser safety class 1 Laser semiconductor (IEC60825-1:2007)
Detection range	0.06m to 20m (white kent sheet), 0.06m to 8m (diffuse reflectance 10%) Max detection distance: 60m
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