

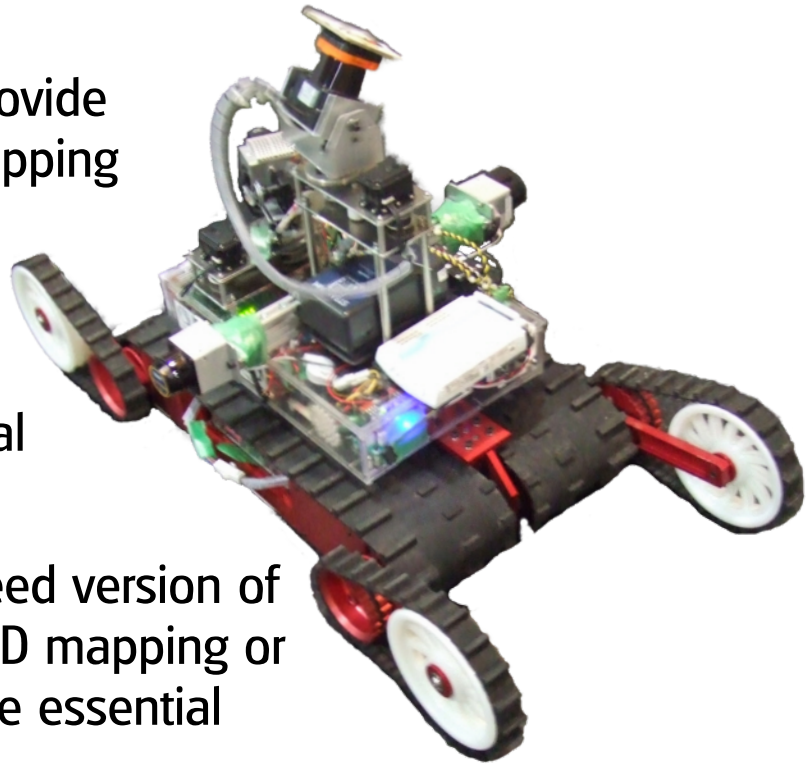
# UTM-X002S

## High Speed UTM from **HOKUYO**

Laser Range Finders (LRF) provide continuous time stamped mapping information.

Their compact size, light weight and low power consumption make them ideal for Robotics.

The UTM-X002S is a high speed version of the UTM-30LX it is ideal for 3D mapping or where fast response times are essential



- 30 metres range
- 100 scans per second
- 270° scan 0.65° resolution
- Compact: 60 x 60 x 87mm,
- Lightweight less than 400g
- Ideal for outdoor or indoor use
- 12V DC, 8.4W

# UTM-X002S Specification

Light source	Semiconductor laser, $\lambda=870\text{nm}$ , FDA laser safety class 1
Supply voltage	12VDC $\pm$ 5%
Power consumption	8W or less, surge current : up to 1A
Detection range	0.1 to 30m
Accuracy	0.1 to 5m $\pm$ 30mm, 5m to 30m $\pm$ 1%
Scan angle & Angular resolution	270° Resolution approx. 0.65°(360°/554 steps)
Scan speed	10msec (motor rotation speed : 6000rpm)
Interface	USB Ver.2.0 FS mode(12Mbps)
Connections	Synchronous output and fault output use NPN open collector
Ambient temperature/humidity	-10°C to +50°C, 85%RH or less(No condensing or icing)
Vibration resistance	10 to 55Hz, double amplitude 1.5mm Each 2 hour in X, Y and Z directions 55 to 200Hz, 98m/s <sup>2</sup> , sweep 2 min. each 1 hour in X, Y and Z directions
Impact resistance	196m/s <sup>2</sup> Each 10 time in X, Y and Z directions
Protection	IP60
Weight	Approx 370g with cable attachment

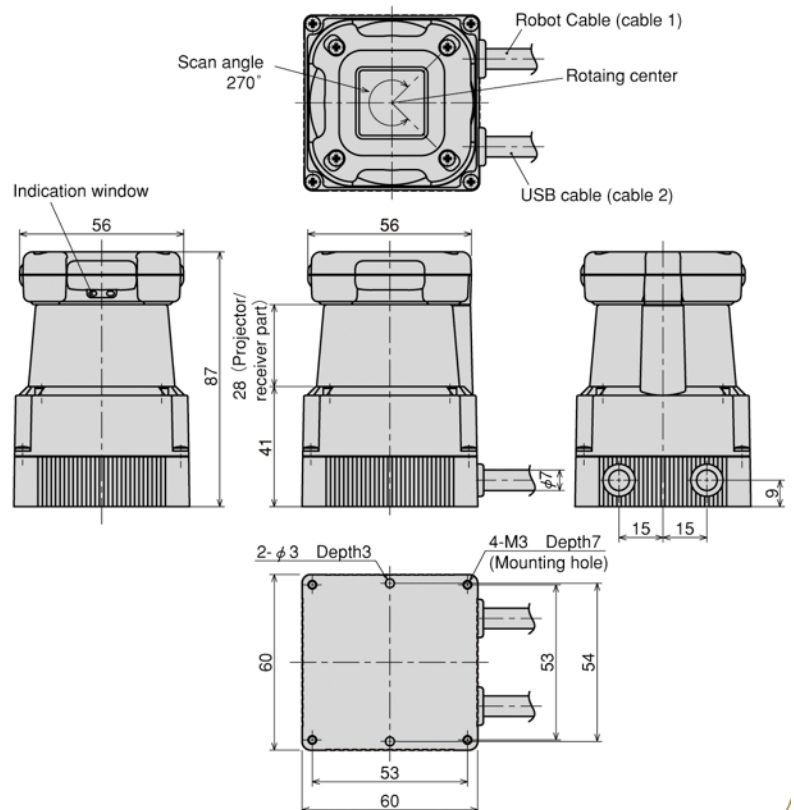
## Interface

Cable 1, power and output

Color	Signal
Brown	12VDC
Blue	0V
Green	Synchronous output
White	-COM (0V)

Cable 2

Type-A (4pin) USB for communication



Europe's Official HOKUYO Distributor

1010 Cambourne Business Park, Cambridge, CB23 6DP UK.

Tel +44 (1223) 923 930 : Fax +44 (1223) 923 940

info@sentekeurope.com : www.sentekeurope.com