

# HOKUYO

## URG-04LX-UG01

### LASER RANGE FINDER



USB powered, energy  
efficient device ideal  
for academic and R&D  
applications.

4 metre range  
0.36° angular resolution  
240° scan window  
IP64

**SENTEK**  
solutions

The Hokuyo URG-04LX-UG01 is an economical version of the URG-04LX. It features a mid range accuracy of 3% of measured range and uses a PC's USB Bus to power the device. It is the smallest, lightest and most power efficient Laser Range Finder available with an entry level price point. Key selling points of the scanner are functionality, size and power consumption. It offers a simple, less precise solution for area scanning and localization of autonomous robots and automated material handling systems.

## Model Number

## URG-04LX-UG01

Range	0.6m to 4m
Scan window	240°
Light source	Laser Semiconductor 785nm , Laser Class 1
Detectable object	70x70mm white sheet
Power source	5VDC ±5% (USB bus power)
Current consumption	500mA or less (rush current approx. 800mA)
Scanning accuracy	0.06 to 1m: ±30mm, 1 to 4m: 3% of measuring distance
Repeatability	0.06 to 1m: ±30mm
Beam diameter	Approx 40mm (at 4m)
Resolution	1mm
Angular resolution	Step angle: approx 0.36° (360°/1024 steps)
Scanning time	100msec/scan
Interface	USB2.0 [Mini B] (full speed)
Output	NPN open-collector output
Connection	Exclusive cable (optional) Dual USB cable
Ambient temperature	-10°C to +50°C (-25°C to +75°C when stored)
Weight	160g
Case	ABS resin
Dimensions	50mmx50mmx70mm
Life	5 years
Noise	25dB or less (at 300mm)
Protective structure	IP64

Note) This sensor may malfunction when receiving strong light, such as sunlight, directly.  
 This sensor is not a safety device/ tool.  
 This sensor is designed for indoor use only.  
 This sensor is not for use in military applications.

For more information:

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