

<b>Product Type</b>	<b>3D LIDAR</b>
<b>Model Number</b>	YVT-X002
<b>Light Source</b>	Laser diode, Wave length = 905nm, Class 1
<b>Power Supply</b>	10 to 30VDC, 8.4W(12V 700mA, 24V 350mA)
<b>Horizontal FOV</b>	210 degrees
<b>Horizontal Scanning Rate</b>	20Hz
<b>Vertical FOV</b>	40 degrees (-5 to +35)
<b>Vertical Scanning Rate</b>	1200Hz
<b>Detection Range</b>	0.3 to 8m(10% black sheet paper) 0.3 to 25m(90% white Kent paper) 0.3 to 50m(Retro-reflector)
<b>Distance Accuracy</b>	+/- 50mm(with white paper at 8m or less) +/- 100mm(with white paper at 25m or less)
<b>Multi Echo Function</b>	Up to 4 echoes (Provided an output function of intensity value of Light-receiving)
<b>Ambient Illuminance</b>	100,000lux
<b>Interlaced scanning</b>	Up to 4 fields
<b>Numbers of Points</b>	2590 points/frame at non-interlaced mode 10360 points/frame at 4 fields interlaced mode
<b>Frame Rate</b>	20fps(non-interlaced mode) to 5fps(f fields interlaced mode)
<b>Horizontal scanning error</b>	0.2% (100μs/50ms)
<b>Interface</b>	Ethernet(TCP/IP) 100Mbps
<b>Protective Structure</b>	IP67(at no-energization), Not allowed to use in underwater environment
<b>Weight</b>	Approx.750g
<b>Size</b>	70mm×106mm×95mm (W×D×H)

<b>Ambient Temperature/Humidity</b>	-10 to 50 degrees Celsius, 85%RH or less without condensation or frost
<b>Vibration/Shock resistance(Note)</b>	1G each for X and Y direction, 3G for Z direction (on operation and endurance) Note)X, Y and Z mean that X:Placing the unit on upward position (the back surface is on ground) Y:Placing the unit on sideways (the side surface is on ground) Z:Placing the unit on standard position (the bottom surface is on ground)
<b>Sound Level</b>	Anterior Direction 59dB (at distance 25cm), Frequency 1200Hz
<b>Gyro Accelerometer Device</b>	InvenSense MPU-9250 (each 3-axis for Gyro, Acceleration and Geomagnetism)
<b>Communication Protocol</b>	VSSP 1.1