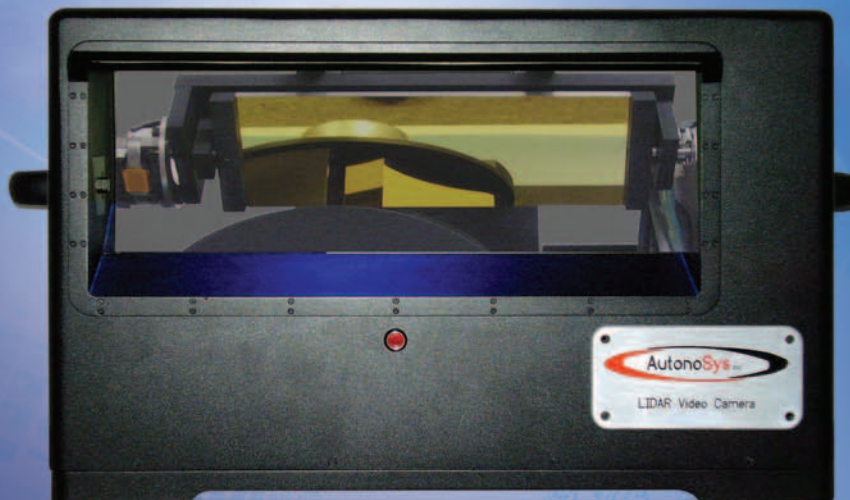




## LVC-0702 LIDAR VIDEO CAMERA

# World's Fastest 3D Scanning Lidar



### PRODUCT FEATURES

- ▶ Maximum measurement rate of 500,000 points/second, 50 times faster than conventional lidars.
- ▶ Integrated 2D scanner delivers full 3D data with no additional equipment.
- ▶ Update rates of up to 10 frames/second.
- ▶ Sub-centimetre ranging accuracy.
- ▶ Frame rate, field of view, and resolution software-reconfigurable to match your application.

### PRODUCT APPLICATIONS

- ▶ Dynamic Lidar Surveying and Mapping
- ▶ Obstacle Detection for Autonomous Vehicles
- ▶ High Speed 3D Motion Capture

*VISIT OUR WEBSITE AND VIEW OUR  
ONLINE VIDEO DEMONSTRATION.*

**[www.autonosys.com](http://www.autonosys.com)**

**Unparalleled Data Density  
500,000 ranges/second**

# LVC-0702 SPECIFICATIONS



## LVC-0702 LIDAR VIDEO CAMERA

### Ranging Unit

Maximum Range	53.5m
Range Resolution	16 bit (0.82mm)
Range Linearity Error	≤5mm
Reflectivity Resolution	15 bit (32,768 grey levels)
Data Acquisition Rate	≤500,000 Pixels/second
Analogue Bandwidth	≤140KHz

### Scanning Unit

Vertical Field of View	45°
Horizontal Field of View	90°

### 10 Hz Mode

Vertical Resolution	72 Lines/0.62°
Horizontal Resolution	480 Pixels/0.19°
Frame Rate	10 Frames/second

### 5 Hz Mode

Vertical Resolution	144 Lines /0.31°
Horizontal Resolution	480 Pixels/0.19°
Frame Rate	5 Frames/second

### HIGH RESOLUTION MODE

Vertical Resolution	288 Lines/0.16°
Horizontal Resolution	960 Pixels/0.09°
Frame Rate	1.25 Frames/second

(OTHER MODES CAN BE PROGRAMMED TO MEET YOUR REQUIREMENTS)

**Synchronization**      Synch pulses available to mark the start of each line and frame of lidar data

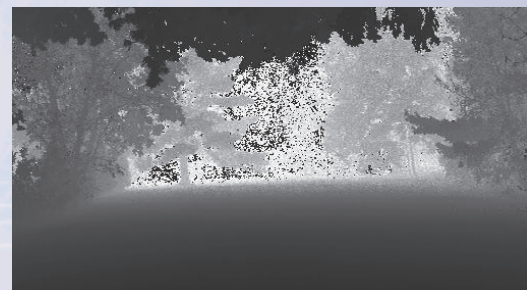
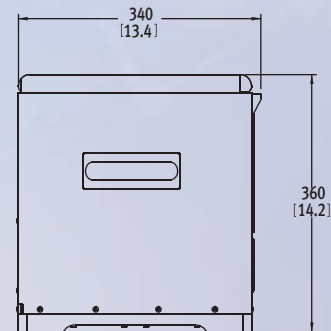
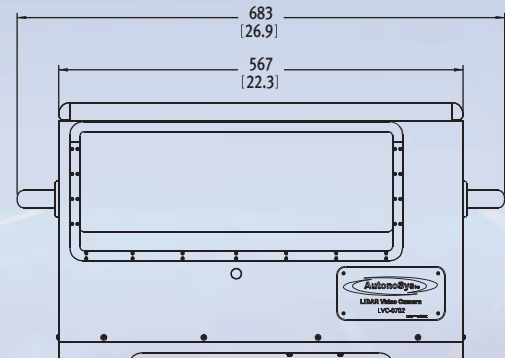
**Environmental**          Designed to meet IP54

**Size (LxWxH)**            683mm x 340mm x 360mm  
(26.9" x 13.4" x 14.2")

**Weight**                    32 kg

**User Interface**          Ethernet: scanner control TCP/IP,  
data protocol UDP

**Included Software**      Windows software to capture and visualise real time data. Sample code for interfacing to your own software under both Windows and Linux.



High-Resolution Range Image



High-Resolution Reflectivity Image

