The AVIO LSF Laser Projector is a laser projection device that is based on a galvanometric system complete with mirrors where a single laser spot is moved at a high speed in all X and Y directions, the movement is so rapid that the projected image is perceived by the human eye as a fixed image. The system is controlled and managed by a microcomputer and a series of boards that drive the laser beam at high resolution. The LSF 13AVIO laser projector is connected via RJ45 LAN cable to the company network or to a single PC which, through the software supplied, acquires CAD files in PLT, HPGL and DXF format and projects them in 1/1 scale.

The standard software is used to calibrate the projector on the workbench, setting the X/Y area and the Z dimension.

In addition to this, it imports the user's PLT and DXF files, converts them and projects them automatically. The software has been developed to work autonomously in the back ground without the continuous control of the operator**.** The system is able to communicate with PLCs using modbus or PLC pulses via UDP/TCP/http protocols.

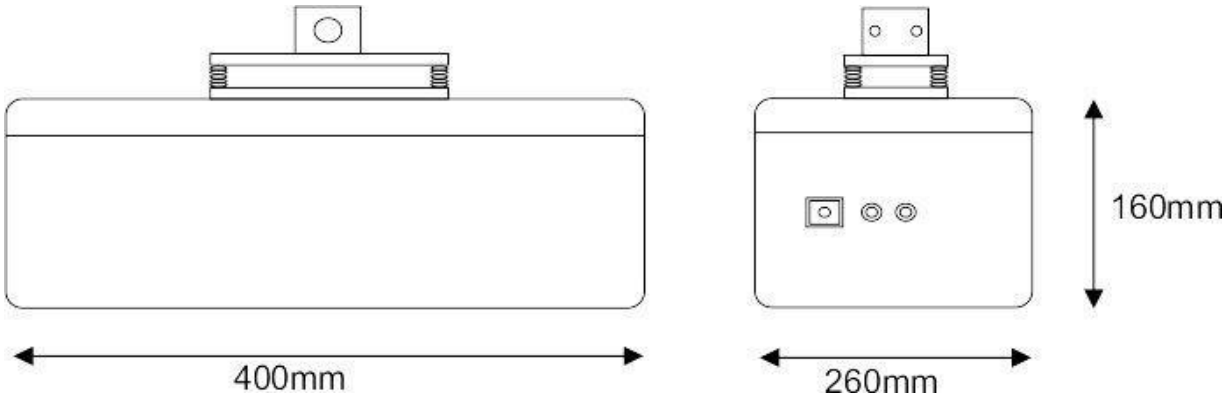
The working area is dictated by the positioning height of the laser projector with respect to the workbench, the maximum projection angle is 60° so at a Z height of one meter the projector will have a working range of 1.3 meters x 1.3 meters so at 3 meters we will have 4.5 x 4.5 meters.

Auto offset The laser projector is optionally equipped with an automatic calibration system on pre-set offsets. In practice, by means of reflectors fixed to the edges of the workbench, the laser system calibrates itself on the reflectors at each start-up and returns to its

previous position, compensating for errors in the movement of the shed or workbench.

Image containing sketch, diagram Auto-generated description

Technical features



Light Source:	Solid State Laser Diode
Projection Type:	60pps Dynamic
1st Wavelength:	520nm (Green)
Wavelength 2°:	635 (Red)
Projection angle	60°
Power supply:	100/240 Vac – 50/60 Hz.
Accuracy	+/-0.5 mm
Body:	Painted steel container
Dimensions (mm):	400mm X 280mmx180 mm.
Weight	4.5Kg
Cooling	Ventilation with heat sink
Connector	RJ45 Lan connector connection with Fixed IP
Operator interface	Remote buttons to select the file to be projected Working Environment Windows /Linux/Ios/Android PC
Integrated support	with micrometric adjustment
Protection:	IP 54
Average life at 23°C (hrs):	35,000
Operating Temperature (°C):	- 15° +45°

Operating temperature with chiller/Heater: -30° +60°

Optional

300300903	ALUMINIUM PROFILE POST 90x90mm H. 3500mm FOR ANCHORING
300300901	CHILLER
3003004	AUTO OFFSET FOR LSF13
300300181	BARCODE HD + SW
3003003004	POLARIZED LENS FOR LSF 13
300300183	PUSH-BUTTON PANEL FOR LSF 13