

VISPS Overview

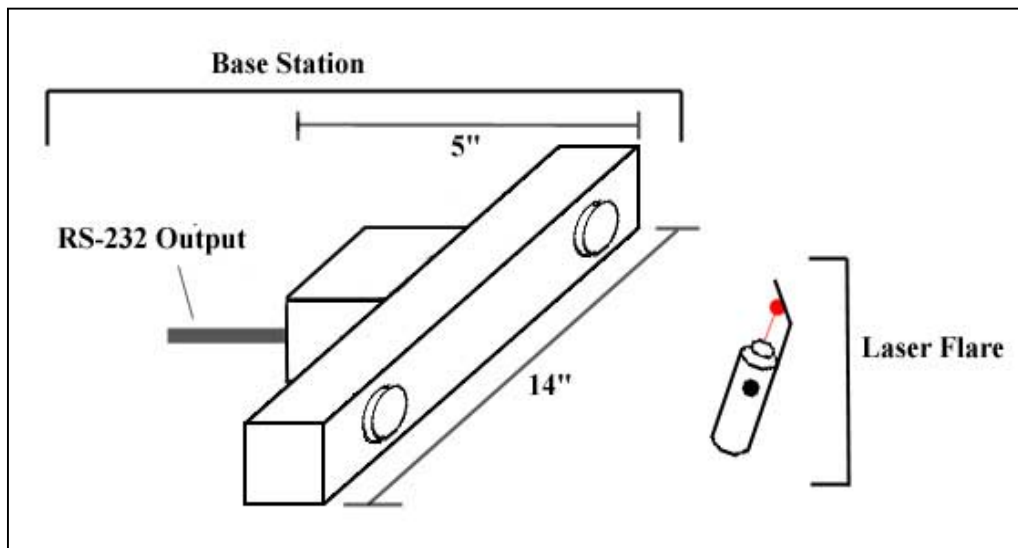
Rapid application development for companies deploying spatial positioning systems is the key to success in today's high-paced market. A robust product that allows accurate spatial-positioning functionality to be integrated quickly and easily is essential to the success of your design. VISPS is such a product.

Using a laser flare as a target, the VISPS base station is able to produce spatial coordinates to within 1/10 of an inch of the laser's actual location by applying the concepts of stereo-vision and triangulation.

Tunable settings allow for VISPS to attain coordinate accuracy to within 1/1000 of an inch and a range as far as 640 ft. These coordinates are streamed out through a standard RS-232 port at 30 points/sec for use in your custom applications.

End-users simply place the laser flare in the camera's field of vision and VISPS, in conjunction with your software solution, does the rest

If you are looking for a powerful and easy to use spatial-locating device to include in your product, then VISPS is what you need.



Overview of VISPS System

VISPS can be deployed in a wide range of application domains such as: surveying, landscaping, graphics, surface mapping, motion detection, motion tracking, and more.

Operating Environment

- Ambient light cannot emit light with a wavelength of 640 nm at intensities greater than or equal to the laser flare.

System Output

- Spatial Coordinates are streamed through standard RS-232 port configured to run at 19.2 Kbps, 8 bits, 1 start byte, with no parity.

Power Requirement

- VISPS Base Station requires 12 volt, 340 mA and 9 volt, 300 mA power supplies
- Laser Flare requires two AAA 1.5V batteries.

Operating Parameters

- Maximum operating distance is 60 ft.
- RS-232 spatial coordinate outputs are 16 bit positive integers normalized to 1/2 the maximum viewing distance.
- Default resolution of spatial coordinates is to nearest 1/10 of an inch.
- Maximum coordinate resolution is to the nearest 1/1000 of an inch.