



## INSTALLATION TIPS

This serves as a supplement to the Parans Installation Guide. Please follow all manufactures recommendations.

Roof work can be dangerous. HUVCO, LLC assumes no responsibility or obligation for failure of a designer, architect, installer or building owner to comply with all applicable building codes, ordinances and safety requirements. Read all of the instructions prior to starting.

### Prior to installation:

1. Find the GPS location for the installation, latitude and longitude details are available on the internet at: <http://www.gpsvisualizer.com/geocode> or a handheld GPS.
2. Find the Solar Path for your location at <http://solardat.uoregon.edu/SunChartProgram.html>  
This will help determine if the sun will be blocked by any obstructions throughout the year. The Align-A-Site tool may be helpful and analyzing site conditions ([www.alignasite.com](http://www.alignasite.com))
3. Use this information to determine the best location for the exterior panel (SP2). The SP2 is stationary, the lenses mounted inside the panel move to track the sun.

### SP2 Mounting:

The exterior panel (SP2) can be wall or roof mounted. This can be done with the mounting brackets supplied from HUVCO or other mounting options are possible. The objective is a secure, waterproof installation. The SP2 weighs 66 pounds. For optimal performance the panel needs to face due south, and angled at the same degrees as your latitude number. In other words, if you are at 39 degrees latitude, the SP2 needs to be mounted at a 39 degree angle relative to level.

### Fiber Optic Cable:

The fiber optic cables, power supply, and communication cable are all contained in a flexible conduit that will fit inside 1.25" PVC conduit. After entering the structure, the extra flexible conduit can be removed. Secure the fiber optic cable using insulated staples and avoid pinching them.

### Power Supply:

The SP2 runs off of 12 volt DC current. It requires 2 watts. A 120 Volt, two prong plug and transformer is included with the system. It is recommended to use a surge suppressor.

### Start up:

After mounting the SP2 and supplying power, the lenses will begin a sequence of movements to locate the sun and learn the solar path. For the first few days it will do this frequently. So there will not be much sunlight through the fibers as the lenses are constantly scanning the sky. Once the lenses lock into position to track the sun's path, this scanning action will become less frequent. This process will be restarted anytime power is interrupted to the system. The range of motion of the lenses limits the maximum daylight harvesting to 7.3 hours per day

### Cleaning:

The glass covering the SP2 should stay clean with normal precipitation, However, additional manual cleaning may improve performance. Do not use any harsh chemicals or abrasives.

Contact HUVCO with any questions at 800-832-6116 or [www.huvco.com](http://www.huvco.com)



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