

# Solmetric Site Evaluation and System Design



**Integrated hand-held tool for solar site evaluation and shade analysis.**

## That means:

- Easy, accurate measurements and instant feedback
- Fast estimates lead to quick sales and designs
- Data is automatically stored for later review and design



**Expert Tools.  
Better Solar.**

## Fast, Accurate, Professional

The Solmetric **SunEye 210** represents the next generation for solar energy professionals doing site evaluation and energy production estimates. With a unique approach that combines a calibrated fisheye lens with electronic tilt and compass sensors, the **SunEye 210** brings a new level of accuracy and convenience.

### Key Features

- Electronic Inclinometer
- Electronic Compass
- Single-Handed Operation
- Rugged, Comfortable Design
- 6 Month Warranty Worldwide
- Integrated GPS
- Live Survey Mode—view annual sunpaths live as you walk the site
- High capacity battery
- Digital camera with Fisheye lens
- “What if” editing of sunpath obstructions with new scenario storage



*Measuring roof pitch is now integrated into the SunEye 210. Simply lay it on the roof or module and read tilt and heading.*



### On-site Challenges Solved

- Rooftop measurements from ground level with the SunEye Extension Platform
- Accurate readings on metal rooftops using “Target” mode to align without the compass
- Identifying shade-free area using “Windowed-Access” to specify a month and time of day range within which solar access is calculated
- Quick capture mode for minimizing time on roof
- True one-handed operation in which the SunEye no longer must be held level and south for accurate readings

# SunEye™ 210

## Take a closer look



Digital Camera with Fisheye Lens

Built-in stylus holder

Impact resistant molded body contains post-consumer plastic

Bright Hi-Resolution VGA Touch screen Display

Annual Sunpaths View  
Other views include monthly Solar Access, obstruction elevation angles, and fisheye image

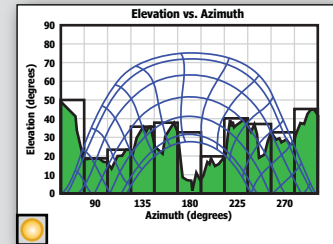
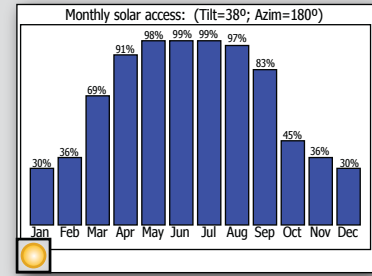
Standard USB-Mini connector transfers SunEye data to Desktop Companion PC software. Edit and export professional reports from your PC

Display of Solar Access and Panel Orientation

Home Button

5-way Navigation Keys. Handy center key snaps picture for one handed operation

Quick Launch Buttons: Orientation Mode and Quick Measure



Alternative data views include monthly solar access and obstruction elevation vs. azimuth.

### Included with the SunEye:

Soft padded case, Stylus, AC Charger, USB Cable, Installation DVD, Desktop software, PV Designer Software, Lens Cap and Quick Start Guide

### Solmetric products that enhance the SunEye:

#### Solmetric SunEye Extension Platform--

Attaches to a painter's pole so you can make measurements from the ground.

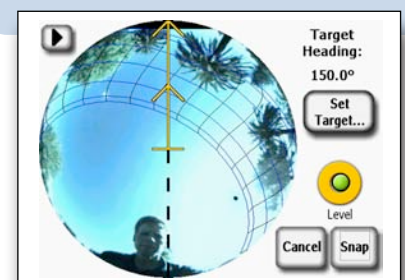
#### Hard Case--

Rugged hard carry case  
**Certified Shade Training**--online, self-guided class

**Live Survey Mode** displays a live video image with sunpaths superimposed. Quickly walk the site identifying shade-free regions.

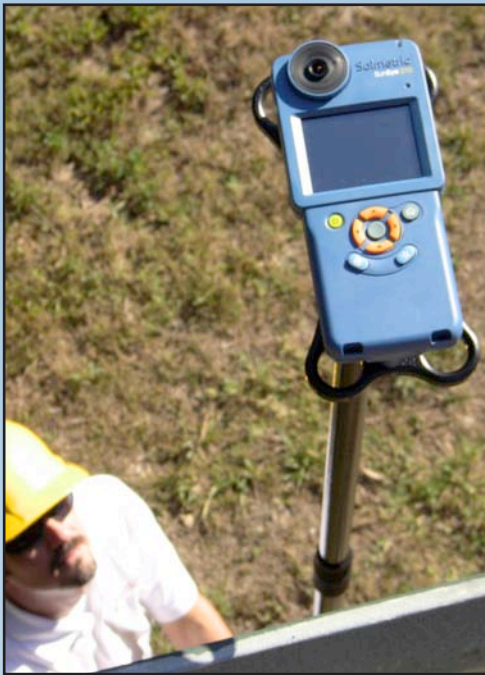


**Target mode** enables accurate measurements even when nearby metal distorts compass readings.



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# SunEye Extension Kit



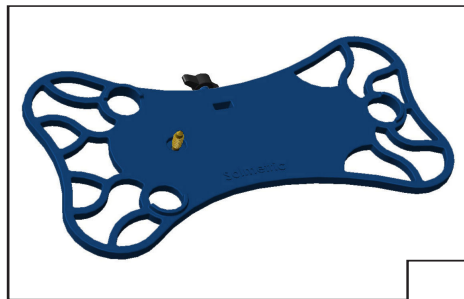
## Extension Kit Interface

When using the Extension Kit, SunEye skylines are captured by rotation of the pole combined with audio feedback from the SunEye. The SunEye will automatically correct the measurements for azimuth and tilt using inputs from the on-board sensors.

## Elevate Your Shade Measurements

In many situations, shade measurements are needed but you cannot get yourself into the right position. For example, roof access may be difficult or not allowed. Or a proposed solar structure is not yet built. Calculations can be difficult and error-prone.

The SunEye Extension Platform enables accurate measurements from the ground. It consists of a platform that attaches to a painter's pole (or similar) to hold the SunEye 210 securely. The platform holds the SunEye secure and protected without obstructing the field of view of the SunEye's camera lens.



### Key Features

- Lightweight and rugged
- Non-conductive
- attaches to standard painter's pole (or similar)



*Extension kit enables rooftop measurements from ground level.*



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# PV Designer Software

With PV Designer you can compare the estimated energy production in multiple what-if design scenarios.

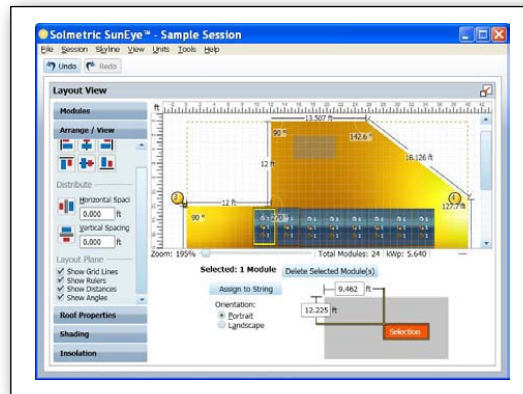


## Build winning proposals

- Create high impact visuals
- Experiment easily with alternative configurations
- Export data to your application for further analysis and proposals

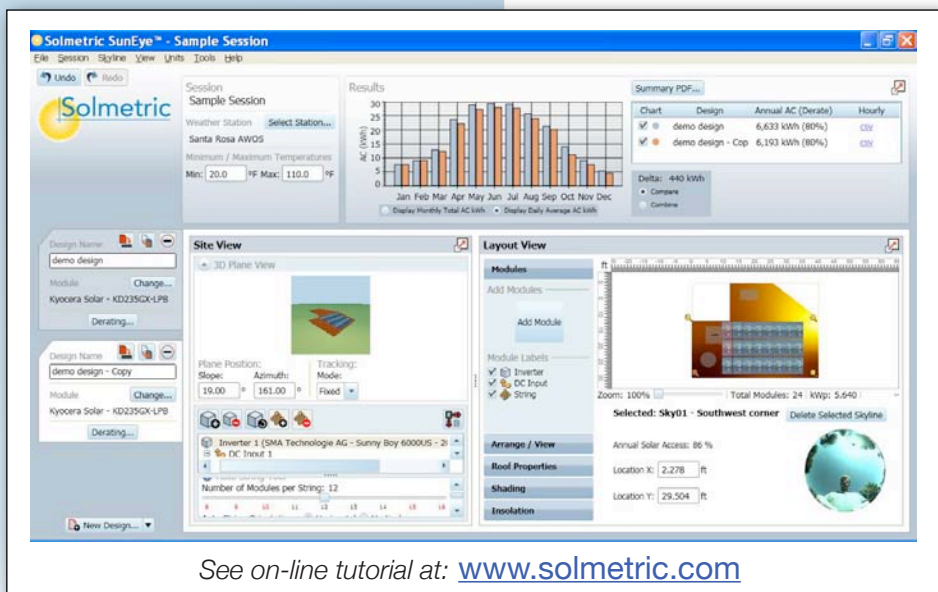
## Fast, Easy, Visual PV Design

In addition to the SunEye desktop software included with the SunEye, Solmetric offers powerful software for the design of solar photovoltaic (PV) systems. PV Designer offers module layout and shade-adjusted energy production estimates in a complete integrated software tool.



## Visualize your PV designs

- Create arbitrary roof shapes and specify set-back and keep-out regions
- Drag and drop modules on roof
- Define strings and adjust module positions
- Drag and drop shade measurements from SunEye readings



See on-line tutorial at: [www.solmetric.com](http://www.solmetric.com)

## Powerful Modeling

- Includes local weather database
- Choose modules and inverters from an extensive database with key specifications
- Check string sizing vs. inverter limits
- Display monthly, daily average and annual energy output
- Visualize shade impacts over roof area
- Optimize solar access and AC kWh production



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## Also from Solmetric:

PV Analyzer IV curve tracer for quick and accurate commissioning and troubleshooting.