



All-out Irradiation Sensor

CaptPro is a breakthrough sensing device that measures **global, diffuse, direct, and ground-reflected solar irradiation** without sun trackers or other moving parts.

Its game-changing design and proprietary algorithm **summarize in a single self-standing device the output of pyranometers and pyrhemometers, while eliminating the need for extra equipment, such as solar trackers.**

In addition to irradiation measurement, it also delivers data on the spectral bands (infrared, visible, and ultra-violet) of all four types of irradiation measured, and on the sun positioning.



Irradiation monitoring made simple, accurate, affordable

- ✓ Small, rugged, portable and lightweight
- ✓ Extremely easy to install and maintain
- ✓ No routine adjustments
- ✓ Polar alignment and tilt-plane independent
- ✓ Usable under any weather conditions
- ✓ Natively designed to be configured in wireless distributed sensing networks delivering highly accurate irradiation assessment and no need for routine calibration

Cut costs, grow profits

CaptPro breakthrough technology exceeds state-of-the-art systems with comprehensive, cost-effective, single-tool monitoring of performance in PV installations.

By dramatically boosting the fine-grained localization of system failures, inefficiencies and production drops with unmatched, pin-point detail, it allows to **maximize energy production, reduce O&M costs, and to increase profitability for investors, owners, and managers of PV plants.**

At the **same price of a single monitoring station** featuring pyranometers, pyrhemometers and sun trackers, and with **sensibly lower maintenance cost**, a CaptPro wireless network provides **+300% more accurate information about plant performance, 10x more precise localization of faults, and the detection of production drops of the order of 1%, thus enabling an increase of up to +5% in energy yield.**

Applications

- PV plant performance monitoring and yield forecasting
- Solar energy site prospecting

CaptPro has been

- calibrated by **World Radiation Centre**
- tested by **Enel Green Power**

CaptPro is a **sunto** patented technology.



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