



**RCP RemoteCameraPro™**

## DATA SHEET

# Outdoor Solar Power Camera System

## Features

- Complete Solar Power Camera Solution for Off-Grid Operation
- Weatherproof Outdoor Enclosure with up to 400AH of Battery
- Enclosures can be Wall or Pole Mounted (pole not included)
- High Performance Sealed Lead Acid Batteries
- MPPT Manageable Charge Controllers
- LTE Cellular Router & WEB3 Remote Monitoring Included
- 5 Port Gigabit 802.3at PoE Switch (Included w/ 2 and 3 camera systems)
- Thermostatically Controlled Ventilation



RCP 2 Camera Solar System  
(Pole not included)

## Applications

- |                            |                         |
|----------------------------|-------------------------|
| • Construction Sites       | • Oil and Gas, Mining   |
| • Parking Lots             | • Equipment Yards       |
| • Homeland Security        | • Agriculture & Ranches |
| • Retail Stores/Businesses | • Resorts & Parks       |

## Description

The RCP RemoteCameraPro™ MPPT outdoor camera systems are designed for applications that require off-grid video surveillance. They are engineered for 24/7 operation with at least 2.5hrs peak sun which supports nearly all locations in the USA.

The manageable MPPT solar controller improves system efficiency by about 15% meaning that more solar energy reaches the batteries. It supports up to 20A load control.

The vented weatherproof enclosures are hinged and gasket sealed with closure clamps that accept a padlock. They have cable gland ports for CAT5/6 cable, antenna cables/connectors or other cabling. Included is a thermostatically controlled fan assembly which turns on automatically when the temperature exceeds 45°C.

The high quality solar panels have a 25 year power output guarantee and a +5W output tolerance. The enclosures and solar mount can be mounted to a wall or pole (2-4") with the included mounting systems.

Batteries are a Non-Spillable Valve Regulated Sealed Lead Acid Advance Glass Matt (AGM) type which have excellent temperature and deep discharge performance. Expected battery life exceeds 5 years.

The systems come with all cabling required to connect the batteries to the controller and 20' outdoor rated cable to connect the solar panels to the controller. Also included are 8MP Starlight Outdoor Bullet Cameras, an LTE Cellular Router compatible with all carriers, a WEB3 remote monitor/control unit and a 5port Gigabit 802.3at PoE Switch.

*Note: Poles shown in pictures are not included. Pole Mounts are included to mount the system to an existing 2-4" Pole or tower structure.*

## Specifications

|   | <b>RCP-100-170-1C</b>  | <b>RCP-200-340-2C</b>                  | <b>RCP-400-340-3C</b>                            |
|---|--|--|--|
| <b>Battery Type</b>                       | Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid AGM  |  |  |
| <b>Battery Life</b>                       | 5+ years   |  |  |
| <b>Solar Controller Type</b>              | MPPT (Maximum Power Point Tracking), Manageable, Temperature Compensated, 30A Max Solar, 20A Max Load Control, LCD Display of Voltages and Currents, Battery %. <1W self consumption |  |  |
| <b>MPPT Voltages (DC)</b>                 | Bulk 28.8V; Float 27.6V; LVD 22.2V, Over-discharge Recovery 25.2V  |  |  |
| <b>High Resolution Bullet Camera</b>      | <5.5W Consumption. 8MP Resolution, Starlight Image Sensor, Night Vision 98ft range, Motion Detection, IP67   |  |  |
| <b>LTE Cellular Modem/Router</b>          | <6.5W Consumption. Compatible with all carriers (Requires Customer Supplied SIM), External Antenna (Included), Remote Monitoring, Supports VPN Connectivity                          |  |  |
| <b>WEB3 Remote Monitor/Control Unit</b>   | <1.5W Consumption. Interfaces to MPPT controller to monitor Battery Charge, Battery Status, Cycle Load to reboot equipment   |  |  |
| <b>DC Input 5 Port 802.3at PoE Switch</b> | Input Voltage 24VDC, Output 802.3at Compatible PoE, 4 PoE ports 1 Uplink Port  |  |  |
| <b>Enclosure Type</b>                     | Pole/Wall Mount, Powder Coat Aluminum  | Pole/Wall Mount, Powder Coat Aluminum  | Pole/Wall Mount, Powder Coat Steel               |
| <b>Enclosure Size</b>                     | 12 x 14 x 15"<br>(305 x 356 x 381mm)   | 21 x 14 x 15"<br>(533 x 356 x 381mm)   | 24.1 x 24.1 x 17.5"<br>(612.5 x 612.5 x 445.6mm) |
| <b>Solar Panel Dims (LxW)</b>             | 62 x 27 x 1.4"<br>(1575 x 678 x 35mm)  | 62 x 54 x 1.4"<br>(1575 x 1372 x 35mm) | 62 x 54 x 1.4"<br>(1575 x 1372 x 35mm)           |
| <b>Operating Temperature</b>              | -30°C to +60°C (-22°F to 140°F)  |  |  |
| <b>System Weight (no batteries)</b>       | 44.3 lb (20 kg)  | 71.5 lb (32.4 kg)                      | 141.7 lb (64.3 kg)                               |
| <b>Battery Weight</b>                     | 80.6 lb (36.6 kg)  | 161.2 lb (73.1 kg)                     | 322.4 lb (146.2 kg)                              |
| <b>Wind Speed Rating</b>                  | 90MPH  |  |  |
| <b>Warranty</b>                           | 3 Years  |  |  |



## System Ordering:

| Model #        | Number of Cameras | Battery Autonomy | Battery Voltage | 12V Battery Capacity | Solar Panel Size |
|----------------|-------------------|------------------|-----------------|----------------------|------------------|
| RCP-100-170-1C | 1                 | >43hrs           | 24VDC           | 100Ah                | 170W             |
| RCP-200-340-2C | 2                 | >50hrs           | 24VDC           | 200Ah                | 340W             |
| RCP-400-340-3C | 3                 | >77hrs           | 24VDC           | 400Ah                | 340W             |

**For further information contact:**

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