

ReSentinel

100% Off-Grid Security and Surveillance Unit

Data Sheet
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Overview

The ReSentinel unit is a fully self-contained off-grid CCTV system, designed for remote monitoring where no mains power or fixed internet is available. It delivers zero-carbon autonomous surveillance, drawing power from nature and removing the need for costly power infrastructure installations. Utilising a Tapo TP-Link C501GW, but compatible with a wide range of security cameras, the unit links to the Tapo App, allowing secure monitoring from any location.

Benefits

- Carbon zero operation (no grid energy use)
- Vertical solar for improved year-round gain & self-cleaning
- Wind turbine ensures all-year uptime
- Heated long-life battery system
- 5-year warranty
- Fully independent of grid infrastructure
- Low operating & maintenance cost
- Portable, relocatable, scalable deployment

Specifications

- Height options from 5.0m to 8.0m height - standard height 6.0m
- Ground mount options - flange mount or in ground plant mount (for fixed applications) Concrete block mounted (for temporary applications)
- Model: TP-Link Tapo C501GW
- Resolution: 1080p Full HD
- Connectivity: 4G LTE (SIM-based)
- Night Vision: Infrared (IR)
- Detection: Motion-triggered alerts
- Access: Live + playback via mobile app
- Storage: microSD + optional cloud

CONNECTIVITY

4G SIM required (no Wi-Fi needed)
Remote access via smartphone or desktop
Secure app-based monitoring (Tapo ecosystem)



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PHYSICAL & INSTALLATION

- Drop-and-go installation
- Weatherproof outdoor enclosure

Suitable for:

- Construction sites
- Rural / remote locations
- Temporary deployments
- Perimeter security

Installation options:

- Height: 5.0m – 8.0m (standard 6.0m)
- Ground mount: flange or in-ground plant mount
- Temporary base: concrete block mounted
- No trenching, cabling, or grid connection required

