




SUNSTONE
SYSTEMS
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Oil & Gas

Rail

Highways

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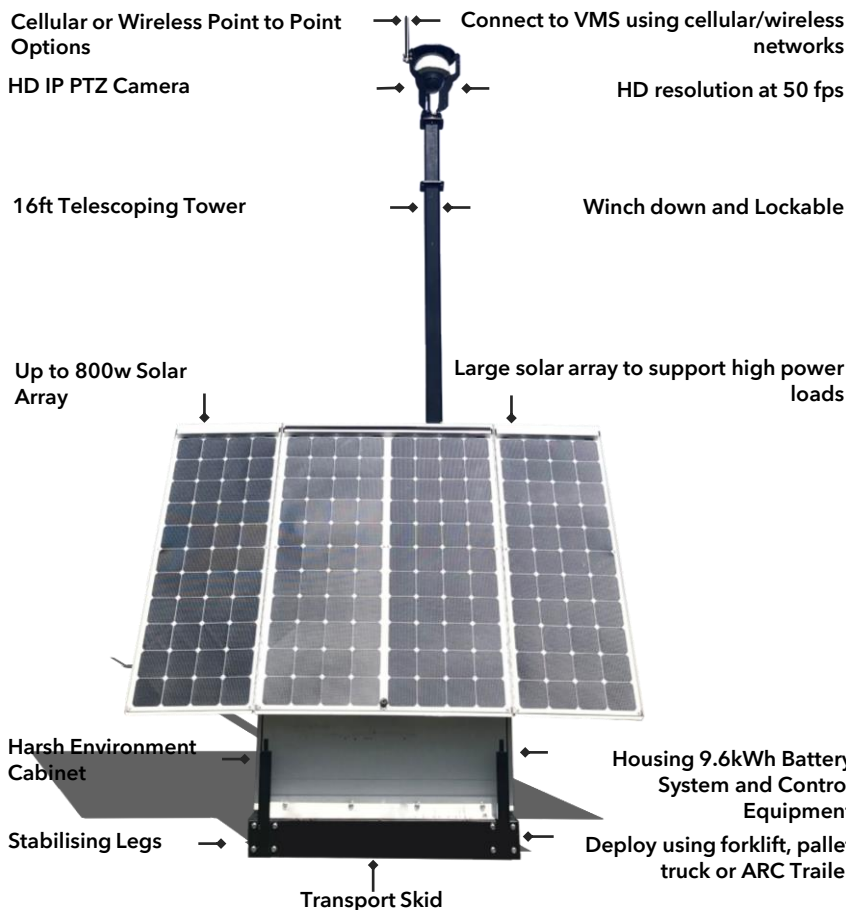
Mining

Security

The Autonomous Remote Communications Unit is a rapid deployment HD PTZ CCTV Tower and the latest innovation from Sunstone Systems. Built upon the same principle of developing game-changing technology powered entirely by renewable energy, the ARC takes the concept of the Solar IP CCTV System into a flexible solution for projects that require temporary to longer-term site security and internet connectivity.

Key features

- Designed for sites that require robust, flexible, cost-effective solutions for their site security and safety needs, without the need for line installation or groundworks; including - construction, transport, utilities and events
- Off-grid security solution capable of delivering 24/7 HD CCTV powered entirely by renewable energy, helping organisations reduce carbon emissions by up to 1000 lb. per year
- Fully serviced with system health monitoring to reduce potential downtime on-site
- Our Rapid Deployment CCTV Tower is operational in under one hour
- Scalable, portable and modular, providing the requisite flexibility for developing sites and operational requirements
- Solution is tailored to the client’s operational requirements
- Anti-theft and vandalism measures: built-in GPS, concealed hinges, fully enclosed, ruggedized and lockable cabinet with IP66 rating, anti-vandal collar - options to add sensors
- Good for the planet. With zero emissions your business will reduce its carbon footprint and is 99% recyclable
- The system is proven and approved in the UK for applications on highways, railway, construction projects and securing vacant properties



Additional Options

- High-speed and reliable internet connection and site-wide Wi-Fi on site allowing your site to be connected and fully functional on day one of the project
- The rapid deployment CCTV tower has an integrated PA system and LED lighting for instant deterrents to on-site issues



OPERATIONAL CAPABILITY

The ARC is a rapid deployment surveillance system, which can be deployed in extreme locations and be connected to your Video Management System in under 1 hour via wireless or cellular networks. Designed to be simple to operate, the ARC provides advanced security and is powered using clean energy. Our 16ft mast supports our camera sensor and offers 1080p HD resolution, delivering 360-degree visibility up to 820ft with 32x optical zoom using advanced IR, even in complete darkness. In addition, our sensor integrates advanced security analytics, alerts and exclusion zones.

SECURITY SENSORS

- HD IP PTZ Network Camera

UNIT DIMENSIONS

- Transport: H 6.6ft W 3.9ft D 3.8ft
- Deployed: H 16.4ft W 7.1ft D 5ft

OPERATING TEMPERATURE

- -40°C to +80°C

POWER

- Up to 800w solar panel array
- Power consumption: 40-50w
- Battery system: 9.6kWh
- Weight: 1653 lb.

ARCTIC CABINET

Material: Painted steel, corrosion resistant

Features:

- Dual doors with dust/water seals
- Concealed door hinges
- Integrated foldable solar array bracket

IP RATING:

- IP66 rated

ARC SYSTEM SOFTWARE

Features:

- Integrates with any IP CCTV Video Management Software (VMS) via Onvif
- Remote system health status and power performance monitoring

TRANSPORT BASE

Material:

- Painted steel, corrosion resistant

Features:

- Integrated forklift, pump truck slots and lifting eyes
- Adjustable stabilising legs

OPTIONAL COMPONENTS AND BESPOKE INTEGRATIONS

- Complete fabrication in 316L Stainless Steel for Oil and Gas and Highly Corrosive Environments
- Surveillance Mast heights can be variable between 13, 16 and 19 Feet
- Customer specified IP PTZ Camera and Telecommunications Devices (Cellular, Wireless PtP/PtMP and Satellite Connectivity)
- Optional Methanol or Hydrogen Fuel Cell backup for higher loads or locations with poor irradiance

SOLAR PANELS

- High power monocrystalline solar panels - Sunpower E20 Cells
- Optional hydrophobic coatings to prevent build up of sand, dust and dirt for improved efficiency

OTHER

Certifications: EAC Certification, CE Marking & British Standards:

- Eurocode 3 - Design of steel structures, BS EN 1993-3-1:2006 Eurocode 1 - Actions on structures, BS EN 1991-1-4:2005 Eurocode 3 - Design of steel structures, BS EN 1993-3-2;2006

OPTIONAL SERVICES

- Desktop irradiance and solar potential survey
- Bespoke solar platform design
- Co-design and development

