ARC SYSTEM

Multifunctional and versatile surveillance and communications platform.

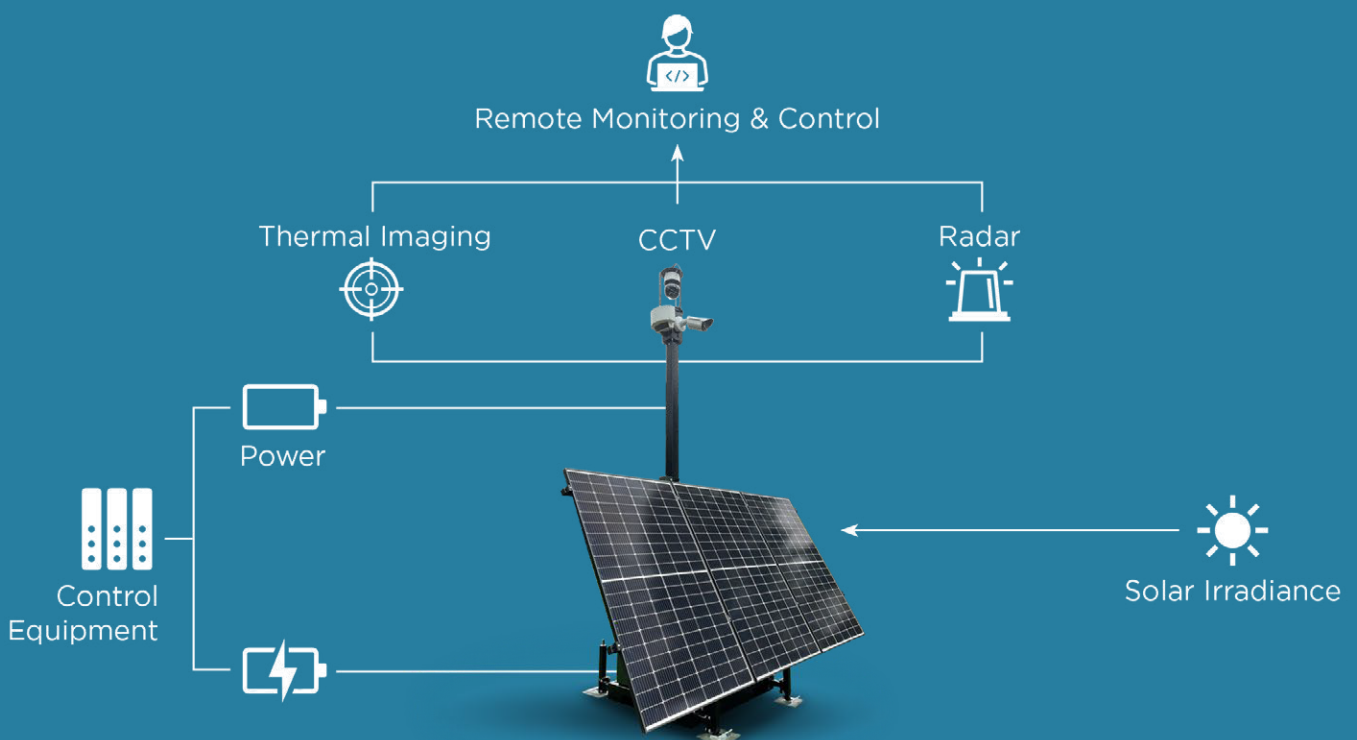**PRODUCT BROCHURE**

SUNSTONE
SYSTEMS

ARC SYSTEM

THE ARC IS A ROBUST, RAPIDLY DEPLOYABLE SOLAR POWERED CCTV TOWER WHICH PROVIDES RELIABLE, COST-EFFECTIVE SECURITY FOR ALL TYPES OF SITES.

WHAT DOES IT DO?

Provides 24/7 HD CCTV surveillance with intrusion detection alerts that can be streamed via a mobile network to any location or device, powered by solar.

STANDARD FEATURES

- Up to 3 static cameras and 1 Pan Tilt Zoom (PTZ) and options for thermal or bullet cameras
- Integrated smart analytics including intrusion detection and perimeter security
- PA horn for instant live or pre-recorded audio deterrents
- Out of hours alarm monitoring with pre-agreed escalation process
- Access to live and recorded video footage on mobile devices through an encrypted cloud-based viewing application
- Up to 30 days of recorded video footage
- 5m telescopic CCTV mast with no working from heights
- Integration into any Video Management System
- Remote system health monitoring and automatic alerts
- Designed and Manufactured in the UK

Remote Monitoring & Control

Thermal Imaging   CCTV   Radar

Power

Control Equipment

Solar Irradiance

BENEFITS

BENEFITS OF ARC

- Green, reduce CO_2 emissions by up to 500kg per year
- Scalable, add more cameras as required including ANPR, thermals, and bullets
- Versatile deployment, moved around site as it develops, and requirements change
- Rapidly and easily deployable, cameras live and streaming in minutes
- Secure, lockable cabinet, tamper alerts, encrypted data, IP66 rated, anti-vandal collar
- Ruggedised, vandal resistant, built to last
- Proven in deployments in Highways, Rail, Construction, and Oil and Gas
- Integrate more analytics including hard hat and hi-vis detection, fire detection
- Site Wi-Fi (subject to site survey)
- Integrated methanol fuel cell back up to provide autonomous power delivery all year round
- Branded, add your logos or colours

"WE HAVE BEEN EXTREMELY PLEASED WITH THE SURVEILLANCE UNITS PROVIDED BY SUNSTONE SYSTEMS"

CONSTRUCTION MANAGER AT BALFOUR BEATTY

ARC SYSTEM OPTIONS

CCTV Surveillance Cameras

We can integrate a range of different camera types, specifications and manufacturers. This includes Bullet, PTZ and 180/360 Degree Cameras. The feed can be relayed from the ARC and to the Cloud to be monitored.

Radar Detection

Our range of range radar detectors are integrated into the ARC and   are designed to work with CCTV cameras. Any detections would
be confirmed visually by using the cameras and alerts relayed to the monitoring centre.

Thermal Imaging

Deploying thermal imaging cameras are most effective in complicated locations and over long distances. Detecting the thermal signature of an intruder, an alert is relayed via the cellular network and to the monitoring centre.
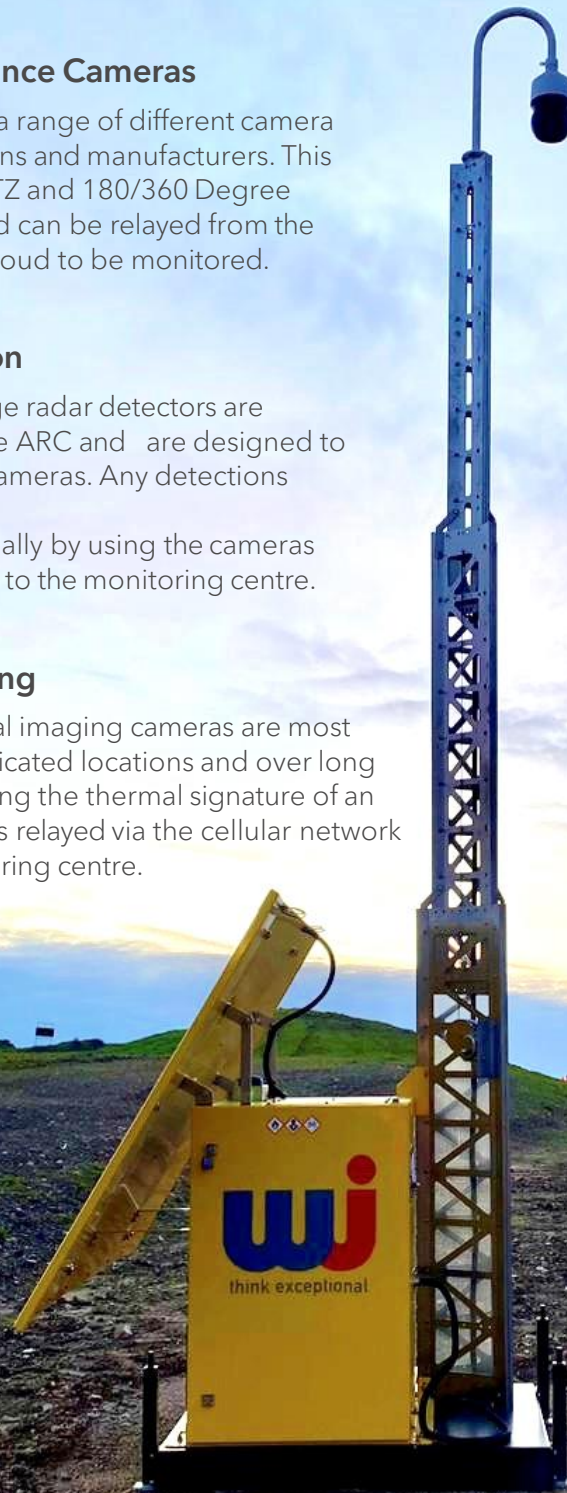
Automatic Number Plate Recognition

Our ANPR cameras deliver detection and capture of numberplates, providing remot vehicle eligibility to enter controlled locations or to monitor traffic. Data can be streamed in real time to the monitoring centre.

TASCAR

Our systems are used for the enforcement of mandatory speed limits using distance over time technology and have been shown to increase speed compliance, reduce congestion and improve road user and road worker safety.

SECURITY OPTIONS

Smart Analytics

Our analytics transform video, audio, and other data into valuable insights you can act on instantly. We use AI to support data into triggers that let you respond appropriately to security and safety breaches as they occur. Our analytics options include:

Fence Guard detects and triggers an event when objects cross a predefined virtual line in the camera view.

Loitering Guard tracks moving objects and triggers an event if they've been in an area for too long.

Motion Guard detects and triggers an event when objects move within a predefined area in the camera view.

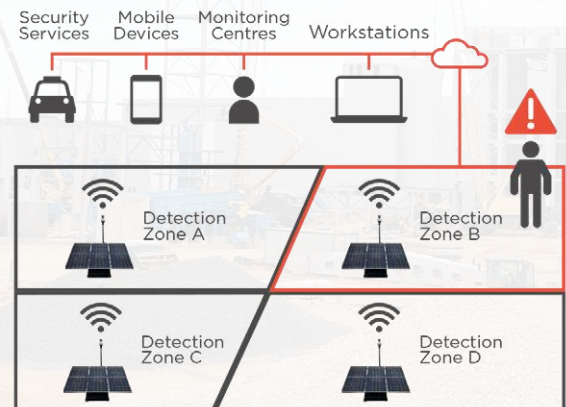**Video Motion** detects and triggers an event when objects move within a predefined area in the camera view.

Perimeter Defender delivers physical access controls at the perimeter of your site.

Object Analytics detects and classifies humans and vehicles tailored to your surveillance needs.

Example Deployment: ARC System (Security Platform) deployed into each corner of the construction site. Each ARC has integrated CCTV Cameras and Radar which constantly sweeping the area and using analytics can detect intruders and alert your monitoring centre. They can issue an audio warning and inform the local security team.

Security Services
Mobile Devices
Monitoring Centres
Workstations

Detection Zone A
Detection Zone B
Detection Zone C
Detection Zone D

ARC System: CCTV & Radar Detection

5G Connectivity: CCTV Monitoring Station

DATASHEET

UNIT DIMENSIONS
Transport: H 2250mm W 1200mm D 1000mm
Deployed: H 4500mm W 2100mm D1200mm

Operating temperature: -40°C to +60°C
Power: 680w solar panel array
Power consumption: 20-32W
Voltage: 24V
Battery system: 400Ah
Weight: 750kg

CABINET
Material: Painted steel, corrosion resistant
Features:
- Dual doors with dust/water seals
- Detachable solar array
- Concealed door hinges
- IP Rating: IP66 rated With purchase: Integrated foldable solar array bracket

TRIFIN PTZ BRACKET
Material: Painted steel, corrosion resistant
Features:
- True 360 degree field of view
- Anti-wind loading design

TRANSPORT BASE
Material: Painted steel, corrosion resistant
Features:
- Integrated forklift slots, pump truck slots and lifting eyes
- Adjustable stabilising legs

IP CCTV CAMERA
Image sensor: 1/3" progressive scan CCD

Lens: 4.4-132mm, F1.4-4.6
Horizontal field of view: 62.9° - 2.2°
Vertical field of view: 37°-1.2°
Zoom: 30x optical zoom and 12x digital zoom
Operating temperature: -40°C to +60°C
Video Compression: H.264 (MPEG-4 Part 10/AVC)

SOLAR IP CCTV SYSTEM SOFTWARE
Features:
- Integrates with any IP CCTV Video Management Software (VMS)
- Remote system health status and power performance monitoring

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

STANDARD MAST (OPTION A)
Material: Painted steel, corrosion resistant
Features:
- Anti-wind loading design
- Demountable winch and stainless-steel wire

Deployed Height: 4.5 – 6m
Servicing Height: 1.5m

TELESCOPIC MAST (OPTION B)
Only available with purchase, not rental
Material: Painted steel, corrosion resistant
Features:
- Anti-wind loading design
- Integrated nylon wheel winch system
- Demountable winch and stainless-steel wire

Deployed Height: 6m
Servicing Height: 2.4m

Security
- CCTV Surveillance
- Smart Analytics
- Perimeter Detection
- Remote Monitoring

Rail
- Trackside Monitoring
- Set down Yard Security
- Passenger Surveillance & Monitoring

Telecoms
- Temporary Event WIFI Mobile Hotspot
- Point to Point Networks

Construction
- Site Security
- Health & Safety
- 24/7 Hotspot & WIFI

Oil & Gas
- Site Security
- Wellhead Telecoms
- Gas Detection

Highways
- Traffic Monitoring
- Average Speed Detection (TASCAR)
- Air Quality Monitoring

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