

REVADER®

ORBIT



**Combining detailed long-range
imagery with 360° viewing**

ORBIT

Our next generation redeployable camera, combining detailed long-range imagery with 360° viewing

Reliable, versatile & easy to use

Our all new ORBIT redeployable camera is a professional, ruggedised CCTV solution which **deters crime, enables successful prosecution** through video evidence and provides surveillance in a highly **cost-effective** manner — **unlike traditional CCTV systems** which incur large infrastructure, human and maintenance costs.

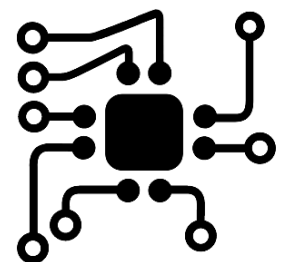
Flexible to your requirements, our redeployable cameras are **straightforward to install** in virtually any location and can be **rapidly repositioned** to respond to changing security demands.

The cameras can easily be **remotely controlled and monitored** via a low-bandwidth link, with video saved to on-board edge storage. HD quality video can be downloaded remotely via wired, wireless and mobile networks. The Trojan also utilises a range of **video analytics** software tools.

The **Orbit** is our very latest camera solution, incorporating one PTZ and three fixed cameras in one unit, providing users with both detailed long-range imagery and 360° viewing simultaneously.

Incorporating the latest in video technology

Each **Orbit** unit incorporates a **2MP PTZ** and three **2MP fixed cameras** providing 360° viewing, all with **infrared**, a Network Video Recorder (NVR), a router for **dual band WiFi & 3/4G connectivity**, a **5TB** hard drive for over **30 days on-board video recording** with **analytics** and a **5-hour failover battery**.



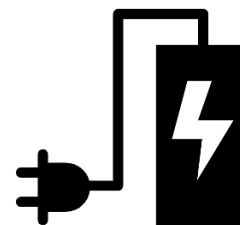
Engineered for all environments

Constructed from the highest quality durable materials, the Orbit performs highly in even **the most challenging weather conditions** and every unit is tested to rigorous **IP66/IP67** standards before leaving our factory.



Use with any power source

All of our redeployable cameras are able to operate from virtually any power source, including **battery, mains** and a variety of renewable options, such as **solar panels** and **turbines**. We also produce our own range of rechargeable high energy battery packs.



Integrate with your existing equipment

Orbit can act as a standalone redeployable camera or work alongside multiple Trojan or Trojan Plus cameras in a dedicated video network or controlled by individual laptops, tablets or mobile devices.

As standard, our redeployable cameras integrate seamlessly with all existing Hikvision systems and can be configured with a range of other video management software (VMS) platforms on request.



ONE SOLUTION

ENDLESS OPPORTUNITIES

Intruder Detection

Mounted on the Orbit exterior and connected via PoE connector, our **intruder detection receiver** can receive alerts from up to 64 battery powered wireless detectors situated at distances up to 1km. Ideal for perimeter security applications.

Part No. 62180



Public Address

Attached via a separate 8-way connector, our **redeployable microphone & speaker with amplifier** provides pre-recorded messages prompted by alarms or direct commands from a remote observer. Ideal for issuing verbal warnings and announcements in public settings.

Part No. 62170



Remote Power Control

Mounted on the exterior of the Orbit and connected via the power input connector, our **power switch** enables users to activate and deactivate the units on command, to conserve failover battery life for extended use. Ideal for scenarios where there is an absence of external power, or for strategic deployment ahead of pre-determined events, such as protests, festivals, concerts and sporting occasions.

RF—Part No. 62190

Scheduled—Part No. 62193

GSM—Part No. 62196





Use without power for extended periods

Extend the life of the internal battery with our rapid rechargeable **PowerPak** high energy battery units. Enables autonomous use on daylight saving lampposts, can provide power for up to 4 days' continuous operation, or can be activated or deactivated on command until the PowerPak is fully discharged.

Part Nos. 61501 to 61504



Wide area coverage with multiple cameras

A single Orbit camera can accommodate up to 4 additional PTZ **redeployable Wi-Fi cameras**, each operating at distances of up to 0.3km line of sight, providing continuous HD video transmission for recording and live monitoring. Two Wi-Fi cameras can operate directly or up to four via Trojan Access Point.

Ideal when surveillance is required in multiple positions and directions over an extended area, such as motorway junctions, sports arenas and at large public events.

Part No. 62160



Combination of all accessories

Orbit can operate with any one or any combination of accessories to meet the most demanding of applications. Controlled, viewed and actioned through the its own communications network and viewed remotely through a single Wi-Fi or 4G link.

SPECIFICATION

Mechanical

Chassis	Plastic & Stainless Steel
Surface	Powdercoat Grey
Connectivity	IP68 circular connectors: Power in, Power over Ethernet (PoE) out Audio, GSM/3G/4G, WiFi antenna
Dimensions	470mm x 190mm Diameter
Weight	From 6.0Kg
Durability	Vandal-resistant IP66
Operating temperature	-20°C to 55°C

Electrical

Input voltage	12-24V DC
Input protection	Short circuit & overcurrent protection
Typical Power	35W + Connected Devices
PSU rating	120W - Part No. 61652
Internal battery	5 hours (without accessories)

Camera & Lens

Camera Type	Ruggedised PTZ
Min. Illumination	0.05Lux Colour. F2.0 AGC ON 0.01 Black and white.F2.0 AGC ON
Resolution	1920 x1080 & Sub Streams
Coverage	360°Endless PTZ 50m
Zoom	4 x optical 8 x digital

Camera Type	3 x 1/2.8" progressive scan CMOS
Min. Illumination	0.05Lux Colour. F2.0 AGC ON 0.01 Black and white.F2.0 AGC ON
Resolution	3 x 1920 x 1080 & Sub Streams
Coverage	3 x 128.5° 10m IR

Connectivity

Mobile Network	4G LTE, 3G HSUPA, 3G HSDPA, 3G UMTS, GPRS. Two SIM slots
Wi-Fi	802.11b/g 2.4GHz & 5GHz Wi-Fi WEP/WPA/WPA2 Encryption
Supported Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnp, RTP/RTSP/RTCP,SMTP,FTP,DHCP,NTP, DNS, ARP, IGMP, PPPoE, CoS, QoS
PoE	Proprietary 48V DC
SIM Card	Fixed Public IP Address; User Arranged

Security

Password profile	Multi protection levels
Diagnostics	Remote, secure diagnostics and repair functionality are available
Remote Administration	Remote control via TCP/IP network including restart and reboot
Automatic System Restart	After power loss, system auto-resumes

Recording System

Video Resolution	Multiple choice up to 2560 x 1440
Operating System	Embedded
Still Image	JPEG
Record types	Continuous, schedule, motion, alarm, event and input trigger

Overwrite modes

Detection	Motion, video loss
Time zone	Regional settings, NTP
Compression	H.264 H.265 H.265+
Data/frame rate	Variable 1 - 25 fps, 64kbps-16Mbps
Min video format	352 x 240 from 64Kbps (min)
Max video format	2560 x1440 to 16Mbps (max)

Video Management Software (VMS)	Hikvision as standard. Other VMS's can be accommodated. Fully supported by most control room VMS platforms
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Storage

Hard Disk	1 x 2.5" Form Factor Platter 5TB
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Analytics

Analytics	A range of analytical tools such as privacy masking, line crossing, region entrance and exit, unattended baggage and object removal detection, etc.
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SIM Cards

SIM Cards	Revader offers a complementary service to insert new or replacement SIM cards provided by the customer.
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ORBIT - Part No. 62140

All units supplied with PSU 61652

TYPICAL APPLICATIONS



PERIMETER INTRUDER DETECTION



CROSSROAD SURVEILLANCE



CROWD CONTROL (NO POWER)



REMOTE LOCATIONS (NO POWER)



CONSTRUCTION SITES



PUBLIC SPACE SURVEILLANCE

E&OE