

Orbis2 Re-deployable Camera

Orbis2 is the latest camera in the family of high performance re-deployable wireless CCTV solutions from 802 Global. With a high level of integration, all the components needed are incorporated into a single unit, enabling simple and cost-effective installation.

Orbis2 benefits from the flexibility of wireless communications and the choice of a wide range of dome cameras. It is suitable for deployment in many environments, including business parks, town centres, construction sites and outdoor events.

The Orbis2 design is modular and allows for easy integration into an existing CCTV infrastructure. Alternatively, the cameras can be delivered with analogue, hybrid or fully digital control and recording platforms to provide an end-to-end CCTV solution.



Ease of installation and deployment

The Orbis2 has been designed to be extremely easy to install; once a mounting point has been chosen it requires only a mains power feed to be provided. Simply fix the mounting bracket to a pole or wall, attach the camera, connect power and point the indicator arrow on the head unit towards the next camera or wireless base station receiver unit. Job done!

Wireless communication flexibility

The Orbis2 offers a choice of three modes of wireless communications that offer the flexibility and security to enable the unit to be deployed in almost any environment.

Point to Multi-Point wireless is an ideal choice for sites where a number of cameras are to be deployed and a line of sight is available from each camera back to the control room or security office location.

Mesh wireless is the most appropriate choice when the cameras are going to be re-deployed on a regular basis into dynamic environments such as construction sites or at outdoor events. The mesh architecture permits one camera to connect to another or to connect directly to a base station.

3G technology allows Orbis2 to be located virtually anywhere that a mobile phone works. This is a highly flexible solution but it should be noted that full resolution full frame rate images cannot usually be transmitted and so live viewing performance can be restricted.

Say goodbye to leased line charge

Connecting cameras by leased line means a commitment to paying more every year to keep the camera operational. The future costs of leased lines are unpredictable but history shows they are unlikely to decrease. Save for the 3G option, there are no annual rental charges to pay with a wireless camera.

Wireless hotspot

A unique feature of the Orbis2 camera is that it can be configured to include a second radio unit that operates as a wireless access point. With this feature employees, visitors and the general public can have secure internet or intranet access from laptop computers, PDAs and dual mode mobile phones. The camera operator can choose who gains access and whether to charge for the service.

Wide choice of cameras

Orbis2 supports a number of cameras from a range of manufacturers via interchangeable adapters. Orbis2 is typically delivered with fixed or fully functional domes from JVC, Panasonic, Pelco or TeleEye depending on customer preference and feature requirements.

Low cost	Easy to install
Easy to relocate	Supports a wide range of cameras
5GHz wireless or 3G HSUPA	Integrates with most DVRs and matrixes
Network video recording option	Wireless hotspot option

Technical Specifications

VIDEO

Input: Composite IV p-p into 75 ohms, PAL
Connector: BNC male
Encoding: MPEG-4 dual stream
Frame rate: 1 fps to 25 fps programmable
Resolution: QCIF (176x144) to 4CIF (704x576)
Bandwidth: Scalable 30kbit/s to 6Mbit/s

WIRELESS

Architecture: Point to Point, Point to Multi-Point, Mesh

Frequency: 5.47 – 5.725 GHz (46 channels) unlicensed
5.725 – 5.850 GHz (21 channels) licensed

Modulation: OFDM

Range: Point to Point – Up to 1,500m
Point to Multi-Point – Up to 1,000m
Mesh – Up to 500m between nodes

TELEMETRY

Interface: RS422 / RS485 2 wire / 4wire
Operating Mode: Transparent serial port supporting any asynchronous protocol

PHYSICAL

Dimensions (excluding camera)
L 380mm x Dia 280mm
Weight (excluding camera)
6.0kg
Temperature: 0°C to 45°C
Humidity: 95% non-condensing
Environmental rating: IP55

MANAGEMENT

Programming: Internet Explorer web browser session
Local interface: Weatherproof RJ45 Ethernet & 802.11b/g on hotspot versions
Firmware upgrade: Flash memory for 'over the air' upgrades

POWER

Input connector: Amphenol 4 way
Voltage: 220 Volt AC
Power consumption: 25-100 Watts dependent upon camera selection

WARRANTY

Limited one year warranty covering parts and labour


Ordering Information

ORB2-PTMP	Orbis2 housing for point to point or point to multipoint operation
ORB2-MESH	Orbis2 housing for mesh operation
ORB2-3G	Orbis2 housing for 3G operation
ORB2-PTMP-IP	Orbis2 housing for point to point or point to multipoint operation with IP camera
ORB2-MESH-IP	Orbis2 housing for mesh operation with IP camera
ORB2-3G-IP	Orbis2 housing for 3G operation with IP camera
ORB2-JVC686	JVC686 camera option with adaptor
ORB2-JVC686i	JVC686 IP camera option with adaptor
ORB2-PAN960	Panasonic CV960 camera option with adaptor
ORB2-PELCO	Pelco Spectra IV camera option with adaptor
ORB2-POLE	Pole mount for Orbis2
ORB2-WALL	Wall mount for Orbis2
ORB2-CORNER	Corner mount for Orbis2
ORB2-BS-PTMP	Wireless base station for point to point or point to multipoint operation
ORB2-BS-MESH	Wireless base station for mesh operation
ORB2-DECODE	Decoder for connecting camera to analogue CCTV system


Notes

A wide selection of antennas are available for different requirements and operating frequencies. Please contact 802 Global for specific implementation advice.

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