

Redvision CCTV Hub



5G Rugged Camera Station

Key Features

- Rugged Re-deployable Camera Station
- Supports Local Storage up to 12TB
- Smart Encode for Bandwidth Optimisation
- LAN & 5G/4G Connectivity
- POE Ultra (802.3bt) for PTZ Cameras
- POE (802.3af) for Static Cameras
- VMS Integration
- 110/ 240VAC Site Power or 24VDC Option
- Unlimited Data Packages
- RedVu CMS and RedVu GO App Monitoring
- ONVIF Compliant Hub
- Up to 4 Cameras per Station, Directly Mounted
- Simple Plug and Play Installation

Redvision CCTV Hub

The Hub is a rugged, deployable camera station capable of mounting, powering, recording and streaming up to four cameras. The system is designed to be quickly deployed, with a one engineer install, and gives users a true plug and play experience. 5G and 4G unlimited data contracts provide users with total flexibility; with the possibility to constantly stream back to a central server, or local storage provides the ability to remotely “dial in” and view events on demand.

Simple install, flexible offering

The Redvision Hub is designed for rapid installation, offering flexible CCTV surveillance in a wide variety of applications. The Hub offers a central connection-point, to bring all your remote monitoring needs together in one tough, rugged, stylish enclosure. Powered by 110~240VAC or 24VDC (specify model when ordering), flexibility is at the core of the Hub design.

Compatible with a Wide Range of Cameras

The Hub allows a mixture of PTZ and fixed cameras to be used (up to 4), all powered and managed from the same unit. The Hub supports a vast range of cameras and manufacturers, thanks to an extensive ONVIF interface; in addition to the full Redvision camera range.

Bandwidth Optimisation

Utilise Redvision’s Smart Encode feature to reduce bit rates of Redvision cameras while maintaining full HD quality.

Applications

- Town Centre monitoring
- Events & Festivals
- Planned Protest/ marches
- Traffic junctions/ accident hot spots
- Railways/ Crossings
- Football ground perimeter crowd monitoring
- Locations where fixed network connectivity is not available
- Construction sites
- Void properties
- CCTV Towers & trailers

5G Connectivity

5G is the fifth generation of cellular network technology and offers a number of benefits that make it ideal for incorporation to Redvision’s CCTV Hub. 5G has much faster speeds and lower latency than 4G, which means that it can support high-quality video streaming and real-time monitoring. 5G also has a wider coverage area than 4G, which means that CCTV cameras can be deployed in more remote locations.

Dual Cellular and Wi-Fi interface

The Hub offers both a cellular connection for remote viewing and downloads. Furthermore, a local Wi-Fi connection, as well as a LAN port, is available for engineering configuration and setup. This can also be used to carry out large backup downloads locally for quicker speeds.

Highly Versatile, all in one Unit

Local recording is provided, up to 12TB; coupled with a flexible, external 5G/ 4G cellular link, providing full remote access, control, and playback functionality to multiple monitoring locations .

RedVu CMS and RedVu GO App




RedVu can be used for video management at different monitoring scales. It supports centralised management, distributed deployment and multi-user remote access; an optimised solution for managing the Hub.

RedVu GO mobile application allows simple connection to the Hub, with live preview and playback video preview of 4 channels. Alarm notifications are easily managed with multiple push notification event sliders to adjust.

Unlimited Data Options

Stream or record cameras 24/7 with unlimited data and maintenance packages. Redvision CCTV offer packages for all installations with unlimited data sim contracts with either a fixed public or private IP addressing or the option to fit a third-party sim card.

Image	Part Code and Description
	<p>RV-HUB5G-1-P Rugged Camera Station for 1 PoE Camera, 5G and LAN connectivity, 110-240VAC, Pole Mounted – Light Grey</p> <p>RV-HUB5G-1-W Rugged Camera Station for 1 PoE Camera, 5G and LAN connectivity, 110-240VAC, Wall Mounted – Light Grey</p>
	<p>RV-HUB5G-2-1TB-P Rugged Camera Station for 2 PoE Cameras (maximum 1 PTZ), 1TB local recording, ONVIF, 5G and LAN connectivity, 110-240VAC, Pole Mounted – Light Grey</p> <p>RV-HUB5G-2-1TB-W Rugged Camera Station for 2 PoE Cameras (maximum 1 PTZ), 1TB local recording, ONVIF, 5G and LAN connectivity, 110-240VAC, Wall Mounted – Light Grey</p> <p>RV-HUB5G-2-4TB-P Rugged Camera Station for 2 PoE Cameras (maximum 1 PTZ), 4TB local recording, ONVIF, 5G and LAN connectivity, 110-240VAC, Pole Mounted – Light Grey</p> <p>RV-HUB5G-2-4TB-W Rugged Camera Station for 2 PoE Cameras (maximum 1 PTZ), 4TB local recording, ONVIF, 5G and LAN connectivity, 110-240VAC, Wall Mounted – Light Grey</p>
	<p>RV-HUB5G-4-1TB-P Rugged Camera Station for 4 PoE Cameras (maximum 1 PTZ), 1TB local recording, ONVIF, 5G and LAN connectivity, 110-240VAC, Pole Mounted – Light Grey</p> <p>RV-HUB5G-4-1TB-W Rugged Camera Station for 4 PoE Cameras (maximum 1 PTZ), 1TB local recording, ONVIF, 5G and LAN connectivity, 110-240VAC, Wall Mounted – Light Grey</p> <p>RV-HUB5G-4-4TB-P Rugged Camera Station for 4 PoE Cameras (maximum 1 PTZ), 4TB local recording, ONVIF, 5G and LAN connectivity, 110-240VAC, Pole Mounted – Light Grey</p> <p>RV-HUB5G-4-4TB-W Rugged Camera Station for 4 PoE Cameras (maximum 1 PTZ), 4TB local recording, ONVIF, 5G and LAN connectivity, 110-240VAC, Wall Mounted – Light Grey</p>

Image	Part Code and Description
	<p>RV-HUB-FIXED-UNL 3 Mobile Fixed Public IP Unlimited Data SIM (Subject to Network Operator's Terms & Conditions) with Redvision Engineer Remote Configuration and Support</p> <p>RV-HUB-FIXED-PRIV-UNL 3 Mobile Fixed Private IP Unlimited Data SIM (Subject to Network Operator's Terms & Conditions) with Redvision Engineer Remote Configuration and Support. Router installation at server is required.</p>
	<p>RV-HUB-CABLE-5 5m External Rated Three Core Flying Mains Power Lead for CCTV Hub</p> <p>RV-HUB-CABLE-10 10m External Rated Three Core Flying Mains Power Lead for CCTV Hub</p> <p>RV-HUB-CABLE-20 20m External Rated Three Core Flying Mains Power Lead for CCTV Hub</p>
	<p>RV-HUB-WALL-G Hub Mounted X-series PTZ Bracket – Wall</p> <p>RV-HUB-ADPT-G Hub Mounted Adaptor Plate for Knight Series Cameras</p>

Video

IP Channels	Up to 4
Power Over Ethernet	1 Port 802.3bt (90W), up to 3 ports 802.3af (15.4W)
Recording*	Local HDD
Recording Resolutions*	8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1
Recording Modes*	Manual, Scheduled, Regular, Continuous, Event
Mobile App	RedVu Go™
Synced Playback*	4, 1
Event Triggers	Motion Detection, Alarm Input, Video Loss, IVA
HDD*	1 Internal SATA, 12TB max.
Backup Modes*	Network (LAN, WiFi, 4G/ 5G)

Live Viewing

Mobile App	RedVu Go
Tablet App	RedVu Go
Remote PC Client	RedVu CMS Free Download
VMS1000	Redvision VMS1000 Powered by Digifort

Network

Interface	1x Ethernet RJ45 LAN Connection, up to 4 x PoE Ethernet PoE Connections
Protocols*	HTTP, HTTPS, TCP/IP, IPv4, UPnP, UDP, RTSP, SMTP, NTP, DNS, DHCP, 802.1x, SNMP, ONVIF, SDK
Remote Users Security	8 Simultaneous Users Base-64 authentication, HTTPS (SSL), 802.1x, IP Address Filtering, 256-bit encryption

Security and Remote Maintenance

Password Diagnostics	Cameras and Hub Secure, remote diagnostics and maintenance available
Reboot	System remote reboot via secure SMS
Fixed Public IP address encryption	Full encryption of data stream to AES 256 standard

I/O

Audio*	1 Input, 1 Output, Line-Level
Alarm Inputs*	8
Alarm Output*	1

Electrical & Physical

Power Supply	110~240VAC or 24VDC
Power Consumption	Max 12W (without cameras)
Operating Temperature	-10°C ~ +50°C
Relative Humidity	< 90%
Compliance	CE/ FCC
Weight	9.1kg (without cameras)
Dimensions	MAX 527mm x 224mm x 133mm
Body Material	Marine grade Aluminium
Colour	RAL7035 Grey. Custom RAL to Order
Ingress Protection	Meets IP67 Standards
Corrosion Testing	ASTM B117 1000 hour Salt-Spray Test

Bandwidth Optimisation

Smart Encode	Enabled – video stream optimisation to save up to 80% of bandwidth compared with H264 1080p (Redvision cameras only)
Advanced Video Codec	

Cellular Interface

Number of Antennas	1 (dual WiFi and 5G)
SIM	1* (3 V & 1.8 V) Standard SIM or eSIM
Frequency Bands	5G: NR SA/NSA: n1/n2/n3/n5/n7/n8/n12/n13/n14/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n71/n75/n76/n77/n78/n79 4G: LTE FDD: B1/ B3/ B7/ B8/ B20/ B28A 3G: WCDMA: B1/ B8 2G: GSM: B3/ B8

* denotes features not available with RV-HUB5G-1-P/W

