

HUB

LITE



Installation Guide

Redvision CCTV Hub

This Guide covers these products:

RV-HUB5G-LITE

RV-HUB5G-LITE-12

RV-HUB5G-LITE-24

Quick guide on page 4!

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Welcome to Redvision

Thank you for choosing Redvision. Your Hub Lite has been carefully developed and manufactured in the United Kingdom.

This guide is intended to cover the basic installation of your Hub Lite, up to and including accessing the internal web servers.

i. Quick-Guide for essential configuration:

The hub uses a built-in web server, to allow configuration from any web-browser application.

The table below lists the default configuration for the equipment on your Hub. To enable remote connections, do not change the network details without speaking with Redvision technical support.

Hub defaults - with recorder				
Device	Public IP	Port	Default Username	Default Password
5G Router	See label on Hub Lite	8888	engineer	redEng2000!
Camera	See label on Hub Lite	80	admin	admin

Note – router connection must be HTTPS. It's strongly recommended to enable HTTPS for camera.

The Hub Lite firewall is managed via a secure datacentre – please contact Redvision Technical support if you need additional ports adding.

Camera Login via web browser

If using a Redvision CCTV Camera with the Hub, enter the Fixed Public IP address of the camera into the URL and login.

The login page is then shown, as per below:



English ▾

Please Input Username

Please Input Password 

Login

- The default username is **admin**, the default password is **admin**.

ii. Safety guide



**THIS CAMERA SYSTEM MUST BE INSTALLED, OPERATED AND MAINTAINED
IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.**

1. Installation of this system must be carried out by a skilled person in accordance with local electrical codes.
2. This equipment must be connected to a protected earth.
3. This equipment has been designed to BS EN 62368-1:2020 and has no serviceable parts.
4. Do not open the equipment.
5. Do not drop the product.
6. Avoid the use of alcohol or solvent-based cleaners. The Hub should be cleaned with clean water and non-abrasive material.
7. The camera system should be installed where it cannot be tampered with by unauthorised personnel.
8. The products should be securely fastened to a structure of sufficient strength to support it. Allowance should be made for additional loads caused by local wind effects.
9. For best results, it is recommended once installed, that the hub be powered as soon as possible, to allow the internal heater and fan devices to operate. It is not recommended to leave the hub in storage or unpowered for extended periods of time.

iii. Router information

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the router is used in a normal manner with a well-constructed network, the router should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Redvision accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the router, or for failure of the router to transmit or receive such data.

- The router generates radio frequency (RF) power. When using the router, care must be taken on safety issues related to RF interference as well as regulations of RF equipment.
- Do not use your router in aircraft, hospitals, petrol stations or in places where using cellular products is prohibited.
- Be sure that the router will not be interfering with nearby equipment. For example: pacemakers or medical equipment. The antenna of the router should be away from computers, office equipment, home appliance, etc.
- An external antenna must be connected to the router for proper operation. Only uses approved antenna with the router. Please contact authorized distributor on finding an approved antenna.
- Always keep the antenna with minimum safety distance of 20 cm or more from human body. Do not put the antenna inside metallic box, containers, etc.
- RF exposure statements 1. For mobile devices without co-location (the transmitting antenna is installed or located more than 20 cm away from the body of user and nearby person)
- FCC RF Radiation Exposure Statement

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and human body.

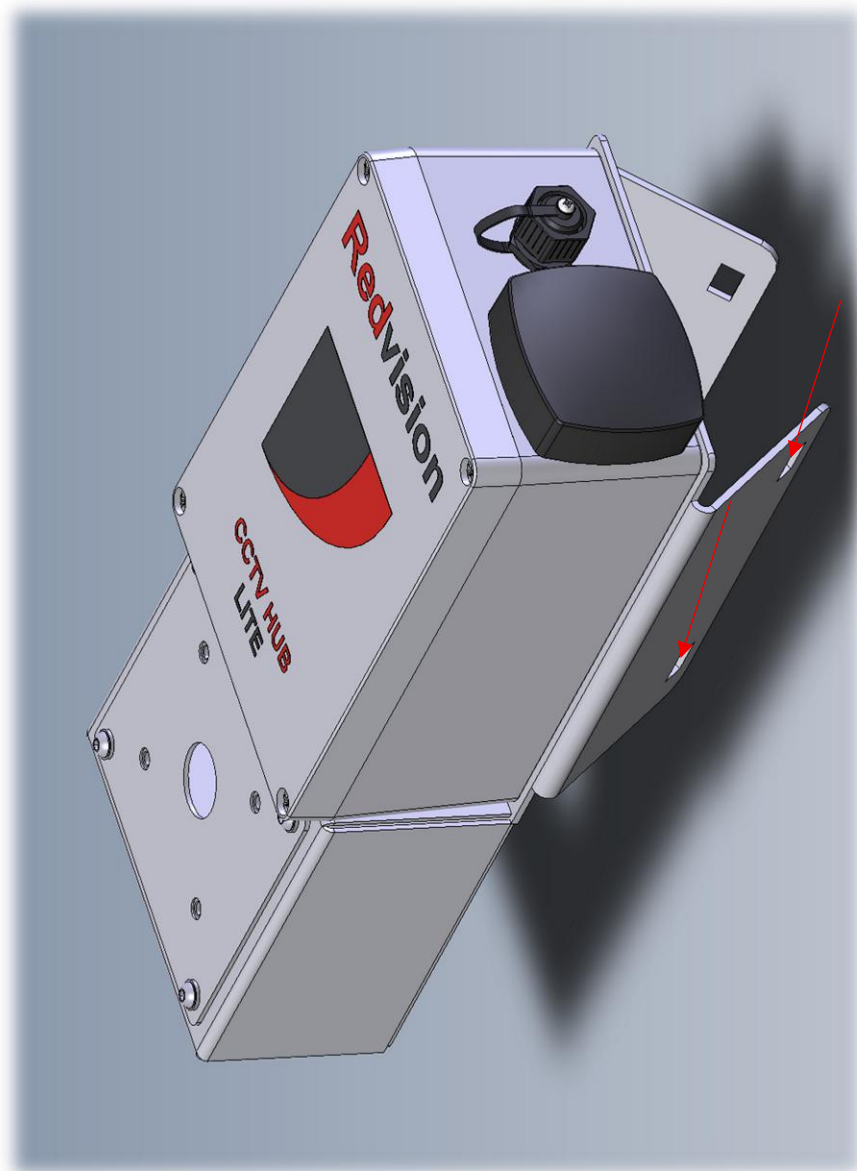
1.0 Installing the Hub

1.1 Pole Mounted

Contents:

- 1 x Hub Lite with Pole Bracket
- 2 x Stainless Steel Jubilee Clips

Using two off stainless steel Jubilee bands, fasten the pole bracket to the pole.



1.2 Wall Mounted

It is important to use adequate quality fixings to safely support the complete Hub assembly when mounting the Hub to a wall.

Contents:

- 1 x Hub Lite with Wall Bracket

Use adequate fixings on the four off fixing holes to mount the Hub Lite to the wall.





OBSERVE THE FOLLOWING PRECAUTIONS WHEN INSTALLING:

1. Mount the Hub in a position where it cannot be interfered with either intentionally or accidentally.
2. The mounting surface should be capable of supporting the weight of the hub, the camera(s) and mounting brackets under all expected conditions of load, vibration and temperature.
3. The mounting brackets should be fitted in accordance with instructions and should observe all appropriate safety precautions & local building regulations.
4. Ensure the Camera station is in the correct orientation.



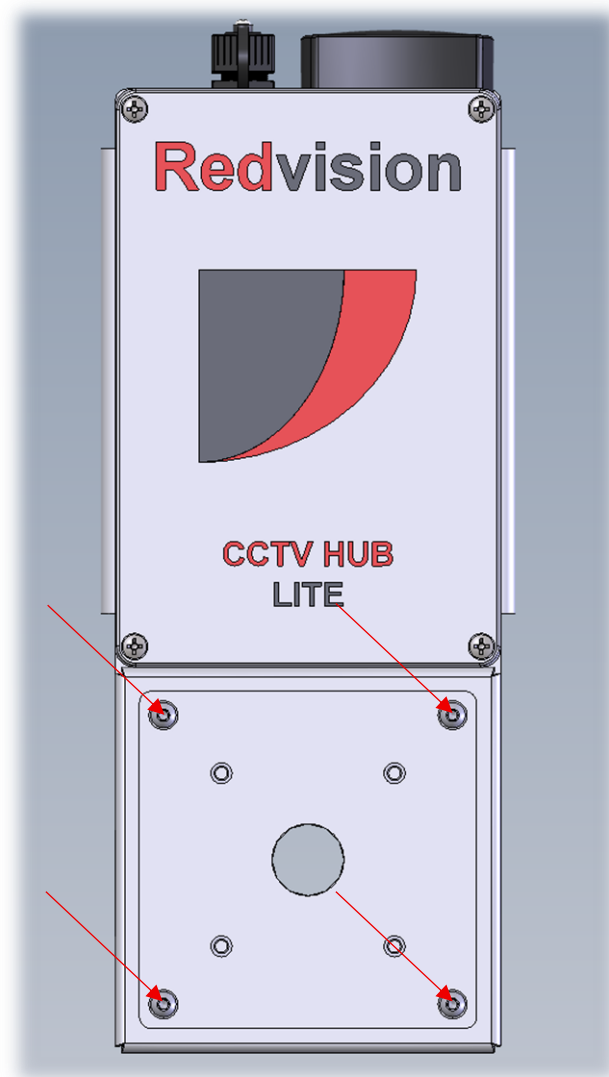
EMC Information

WARNING: THIS IS A CLASS A PRODUCT. IF INSTALLED IN A STATIC ENVIRONMENT, RADIO INTERFERENCE MAY BE CAUSED, IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES TO PREVENT IT.

1.3 Camera installation

The mains variant (RV-HUB5G-LITE) Hub Lite has been designed to allow 1 POE (802.3af, 802.3at or 802.3bt up to 90W) camera to be directly mounted and powered. The low (12/24VDC) voltage variants (RV-HUB5G-LITE-12/24) has been designed to directly power a 12 or 24VDC camera and provide ethernet connectivity.

- 1) Remove the front connector plate by removing the 4 off M6 x 12 Socket Button Head fixings.
Note – ensure you have the right connector plate for your camera.
- 2) Fix the camera to the connector plate using the appropriate fixings or mounting bracket if mounting a PTZ (supplied).
- 3) Terminate cable into POE port of the Hub Lite, ensuring you use the weatherproof glands and shrouds.
- 4) Fix front connector plate back to the Hub Lite using the 4 off M6 x 12 Socket Button Head fixings.



2.0 Power supply installation & setup



WARRANTY & SAFETY NOTICE: DISCONNECT ALL POWER BEFORE WORKING ON THE HUB. INSTALLATION MUST BE CARRIED OUT BY A SUITABLY QUALIFIED PERSON

UMBILICAL CABLE: A pre-made cable with connector must be purchased with all Redvision Hubs. The female connector connects directly to the male connector on the base of the Hub.

- If a 12/ 24VDC version, mount the Redvision PSU/ battery in a position so it cannot be interfered with intentionally or accidentally. Ideally use a lockable cabinet.
- If a 12/ 24VDC version, securely fix the Redvision PSU/ battery using appropriate size screws and ensure the cable glands have sufficient clearance to allow the cables to enter.
- Ensure cable glands face downwards at all times and securely tightened.
- If a 12/ 24VDC version, all cables should be channelled through the appropriately sized gland holes.
- Only use Redvision supplied umbilical/multicore cables for connecting the Hub. Warranty will be void if these cables are extended between the camera and PSU. Extending cables could also compromise safety. Contact Redvision Technical Support if in doubt.

2.1 Power supply specifications

Mains versions:	
Power input voltage range	100-240 VAC
Frequency range	50/60Hz
Max. output power	100W
Operating temperature range	-10°C ~ + 50°C

Low Voltage versions:	
Power input voltage range	12 or 24VDC
Max. output power	100W
Operating temperature range	-10°C ~ + 50°C

2.2 Power connections

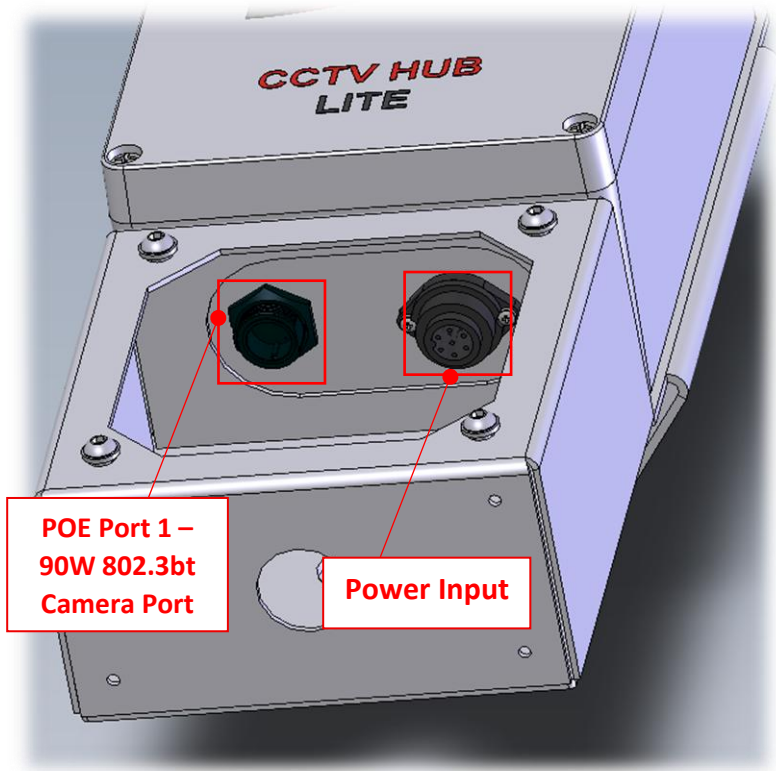
Umbilical Wire	MAINS POWER
L	LIVE (BROWN) 100/240 VAC
N	NEUTRAL (BLUE)
EARTH	GREEN/YELLOW

SAFETY: ENSURE MAINS INPUT & EARTH CONNECTIONS ARE SECURELY STRAIN RELIEVED.
CAUTION: ENSURE EARTH IS CONNECTED TO PROTECTED EARTH POINT.

Umbilical Wire	12/ 24VDC POWER
0VDC	BLACK
+12/ 24VDC	RED

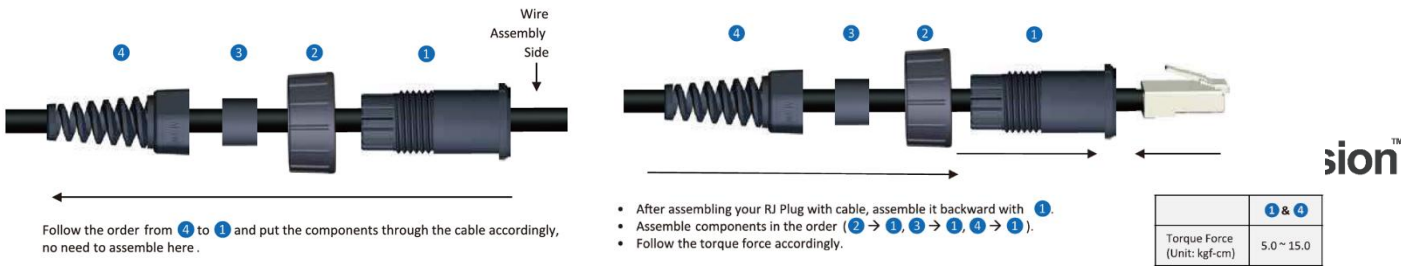
2.3 Hub Network and Power Connections

Ensure the hub is mounted with all connections facing down. The Hub is equipped with the following connections



An IP67, weather-resistant cable-shroud is provided the RJ45 port. This covers and protects the Cat5e cable and when mated with the RJ45 socket forms a complete IP67-rated connection. The Hub is provided with a RJ45 connector cap for the RJ45 socket. Ensure this is securely fitted for any unused connectors.

This connector must be used at all times, camera/ Hub warranty may be invalidated otherwise.



3.0 Warranty information

Redvision CCTV limited (Redvision) warrants the buyer that the product will, on the date of shipment, be free from defects in material & workmanship and will conform to Redvision's specifications, provided to the buyer. If any defect in material or workmanship appears in the product, Redvision will, at its discretion, either repair or replace the defective product without charge at Redvision's customer service centre or authorised repair facility or credit or refund the purchase price of the defective product, provided:

- The defect appears within **36** months from the date of purchase.
- Examination of the product confirms that the claimed defect actually exists.

Buyer shall follow Redvision's instructions regarding return of the defective product and no product will be accepted for repair, replacement, credit or refund without:

- Buyer or an authorised representative of the buyer first contacting Redvision Technical Support for assistance and actual confirmation of suspected defect or fault.
- Written authorisation of Redvision or in accordance with Redvision's written instructions, including an official **Return Merchandise Authorisation number (RMA)**, issued by Redvision CCTV Ltd.

In the case of any such return the buyer shall bear the risk of loss or damage and shall prepay all transportation charges to Redvision. The replaced product shall become Redvision's property. In no event shall Redvision be responsible for de-installation or reinstallation of the product or for the expenses thereof. If it is determined that returned product is not defective, the buyer shall pay Redvision all costs of handling, inspection, repairs and transportation at Redvision's then prevailing rates.

With respect to product not manufactured by Redvision, to the extent permitted, extends the warranties and affords the remedies to the buyer given to Redvision by its vendor of said products.

The foregoing warranties do not extend:

- to expendable items, including SD Cards and Hard Disks
- to experimental or development products
- to product which has been subjected to misuse, neglect, accident or abuse;
- to the unauthorised repair or alteration by anyone other than Redvision;
- to improper installation, storage or maintenance by anyone other than Redvision; to product used in material violation of Redvision's instruction or to product which has had its serial number or month and year of manufacture or shipment removed, defaced or altered or to software.

The term "**software**" means a set of logical instructions and table of information which guide the functioning of a processor. Such set may be contained in any medium whatsoever including, without limitation, hardware containing a pattern of bits representing such set, provided, however, the term "software" does not mean or include the medium.

Redvision shall charge for the repair of all product returned out of warranty. Call Redvision customer service +44 (0)1420 448 448 for an RMA number or visit www.redvisioncctv.com for more information.