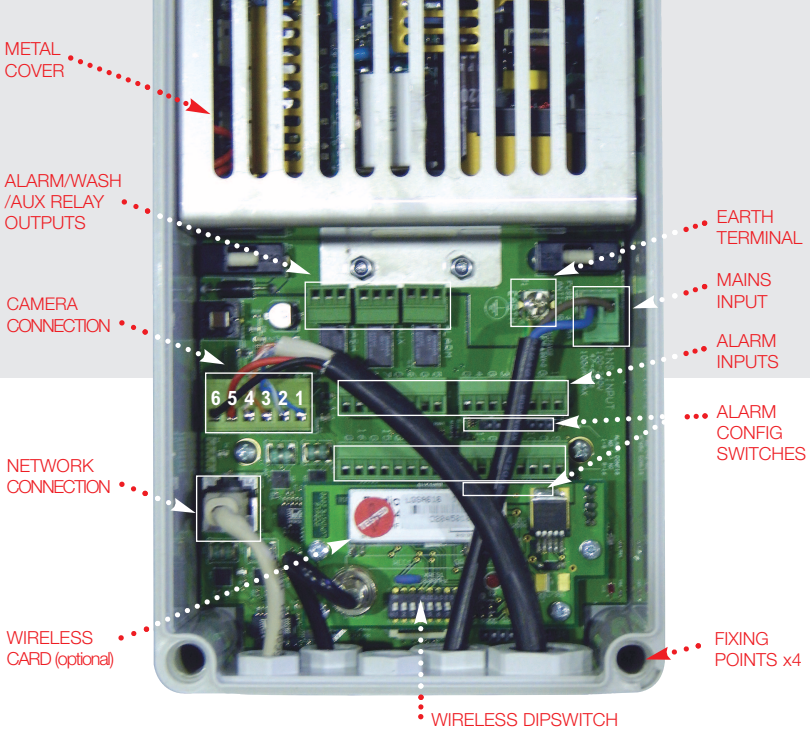
Redvision™



RVIP-PSU-ALM16-W

INSTALLATION SHEET

PSU with 16 hard wired and 32 wireless alarm inputs (compatible with Redvision wireless PIRs).

This PSU is compatible with the following Redvision X-SERIES Cameras: RV30-720 and RV30-1080.

Safety

Isolate mains whilst working on any part of this PSU. Metal cover should not be removed - this protects high voltage components.

Positioning the PSU

To maximise UHF transmission where possible install PSU externally with aerial pointing vertically down. For installs that require greater transmission ranges, or if the PSU needs to be mounted within a metal case or building, we would recommend that an RV-AE434 booster aerial is connected to the wireless receiver.

Fixing the PSU

Remove the PSU lid by releasing the 4 plastic fixings. Fix the PSU with 4 suitable fixings in the 4 corner access holes (fixing screws not supplied). Glands must face downwards, all unused glands must be sealed.

Electrical Connections

Connecting the mains power

MAINS INPUT 100-240v 47-63Hz

L	LIVE (BROWN) 110/230Vac	
N	NEUTRAL (BLUE)	Mains Input Connector
EARTH	GREEN/YELLOW	Earth Terminal Screw

EARTH CONNECTION REQUIRES 4mm RED SPADE LOOP (SUPPLIED WITH PSU) TO BE FITTED BY ENGINEER AT INSTALLATION.
SAFETY: ENSURE MAINS INPUT AND EARTH CONNECTIONS ARE SECURELY STRAIN RELIEVED.

Dome Connections. (6 way Terminal Block)

Pin No.	WIRE COLOUR	SIGNAL
1	Blue	TxN
2	Blue/White	TxP
3	Orange	RxN
4	Orange/White	RxP
5	Red	24Vdc
6	Black	GND

Fuse Protection

F1	Mains input fuse 3.15A anti surge
F2	Camera fuse 3.15 A fast blow

Network Connection

Ethernet 100 BASE-T for connection Cat 5 wired to T568A or T568B Cable run PSU to Hub 50 metres.
For longer runs the RVIP-ALARM series PSUs include a repeater for up to 100 metres.

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CE

RVIP-PSU-ALM16-W

Alarm Inputs

Via 4 off 8 way connectors P16, P17, P18, P19

16 alarm inputs IDENT 1-16, 16 ground inputs IDENT G

The alarm inputs are 'volt free' and MUST NOT be connected to any power contacts. Permanent damage may result from failure to correctly connect the alarm inputs.

NOTE: The Alarm Ground inputs are all common and connected to the PSU ground.

ALARM CONFIGURATION SWITCH SETTINGS

S1: NO/NC alarms 1-8

S2: NO/NC alarms 9-16

In each case, set the switch to ON for Normally Open operation, and off for Normally Closed.

Wireless Alarm Inputs

DIP Switch Settings

The wireless receiver has a single 8 way DIP switch. 1-3 switches are not used and should be left in the 'ON' (▲) position.

Dome Head Site Code

Switches 4-8 provide up to 32 (1-16 shown in table) channels of wireless transmission. To enable alarm activation, the transmission needs to be MATCHED between the Dome Head Site Code on the wireless receiver & the Site Code within the PIR Detector (see PIR installation sheet). One or more domes will respond to any PIR within range providing the Dome Head Site Code & corresponding PIR Site Code MATCH.

SW1

	4	5	6	7	8
1	▲	▲	▲	▲	▲
2	▲	▲	▲	▲	▼
3	▲	▲	▲	▼	▲
4	▲	▲	▲	▼	▼
5	▲	▲	▼	▲	▲
6	▲	▲	▼	▲	▼
7	▲	▲	▼	▼	▲
8	▲	▲	▼	▼	▼
9	▲	▼	▲	▲	▲
10	▲	▼	▲	▲	▼
11	▲	▼	▲	▼	▲
12	▲	▼	▲	▼	▼
13	▲	▼	▼	▲	▲
14	▲	▼	▼	▲	▼
15	▲	▼	▼	▼	▲
16	▲	▼	▼	▼	▼

UP = ▲
DOWN = ▼

AUXILIARY/ALARM OUTPUTS

Three sets NO/NC Auxiliary output contacts (ALARM/AUX/WASH).
Each set of contacts isolated and useable for any circuitry with the following limitations:

Rated Load	:	0.5A @ 125Vac / 1.0A @ 24Vdc Resistive
Max. carrying current	:	2 A
Max. switching current	:	1A
Max. switching power	:	30W