



RVX-PSU-ALM16-W INSTALLATION SHEET

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

This PSU is compatible with the following Redvision X-SERIES Cameras:
RVX20 and RVX30.

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 access holes (fixing screws not supplied). Glands should 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)	Connection via 2 way terminal block
EARTH	GREEN/YELLOW	Connection via 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	
PCB ID	CAMERA
0V	Black and Cable Screen
24V dc	Red
RS 485 B	Orange
RS 485 A	White
V_GND	Coax Screen
VIDEO	Coax Signal (BNC P7)

Control Connections	
PCB ID	EXTERNAL
RS 485 B	RS 485 B
RS 485 A	RS 485 A
V_GND	Coax Screen
VIDEO	Coax Signal (BNC P6)

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Switch Settings

S5 CONFIG (Protocol/baud rate termination switch)

	Protocol			Baud Rate			RS 485 Termination			
	1	2	3	4	5	6	7	8		
BBV Coax	0	0	0	2400	1	0	NOT	NOT	ON	1
Pelco P	0	1	0	4800	0	1	used	used	OFF	0
Pelco D	1	1	0	9600	0	0				
Dennard	1	0	1	19200	1	1				
Vista	0	0	1							
Bosch/Forward Vision	0	1	1							
BBV 422	1	1	1							

S3,S4 (Normally Open/Normally Closed Alarm Inputs)

- S3 NO/NC alarms 1-8
- S4 NO/NC alarms 9-16

Hard Wired Alarm Inputs

16 Alarm inputs, 16 ground inputs

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.



Alarm Outputs (3 relay outputs)

3 Alarm outputs; ALARM, WASH, AUX. NO/NC 0V relay contacts

Fuse Protection

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

WARNING

Only use Redvision umbilical supplied cables. Warranty will be void if these cables are extended between the dome and PSU. This could also compromise safety.