



## RVIP-PSU-ALM16-48V INSTALLATION SHEET

48VDC input PSU with 24VDC output, suitable for powering Redvision X-Series IP cameras over extended cable runs. Compatible with the following X-SERIES cameras:

RV30-720 variants

RV30-1080 variants

### Install

Isolate PSU from Power source at all times during installation.

### 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

Input 48VDC 100W (minimum)

Input Power Connections		
PCB ID	48VDC IN	TYPE
+	+ 48VDC via 2-way connector	1mm <sup>2</sup> Core min. Maximum cable loop resistance 7Ω
-	0V via 2-way connector	1mm <sup>2</sup> Core min. Maximum cable loop resistance 7Ω
EARTH	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.

### Camera Connections

Pin No.	Wire Colour	Signal
1	Blue	Tx N
2	Blue/White	Tx P
3	Orange	Rx N
4	Orange/White	Rx P
5	Red	24VDC
6	Black	GND

### Fuse Protection

F1	3.15A Anti-Surge
F2	3.15A Fast-Blow

### Network Connection

Ethernet 100BASE-T for connection; Cat5e, wired to T568A or T568B. Cable length between PSU and Network Switch is **100m** maximum (Alm16-PSU only)



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### Alarm Inputs

Via 4x 8-way connectors: P16, P17, P18, P19.

16 alarm inputs, labelled 1-16, each with adjacent ground connection.

Alarm inputs are voltage-free, and MUST NOT be connected to any power source. Permanent damage may result from failure to correctly connect the alarm inputs.

NOTE: Alarm ground inputs are all common, and connected 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.

### Auxiliary/ Alarm Outputs

Three sets NO/NC Auxiliary output contacts (ALARM/AUX/WASH).

Each set of contacts are isolated and usable for any circuitry, with the following limitations:

Rated Load: 0.5A @ 125VAC / 1.0A @ 24VDC Resistive

Max. carrying current: 2A

Max. switching current: 1A

Max. switching power: 30W

### WARNING:

Only use REDVISION supplied umbilical cables. Warranty will be void if the cables are extended between the camera and PSU, this could also compromise safety.