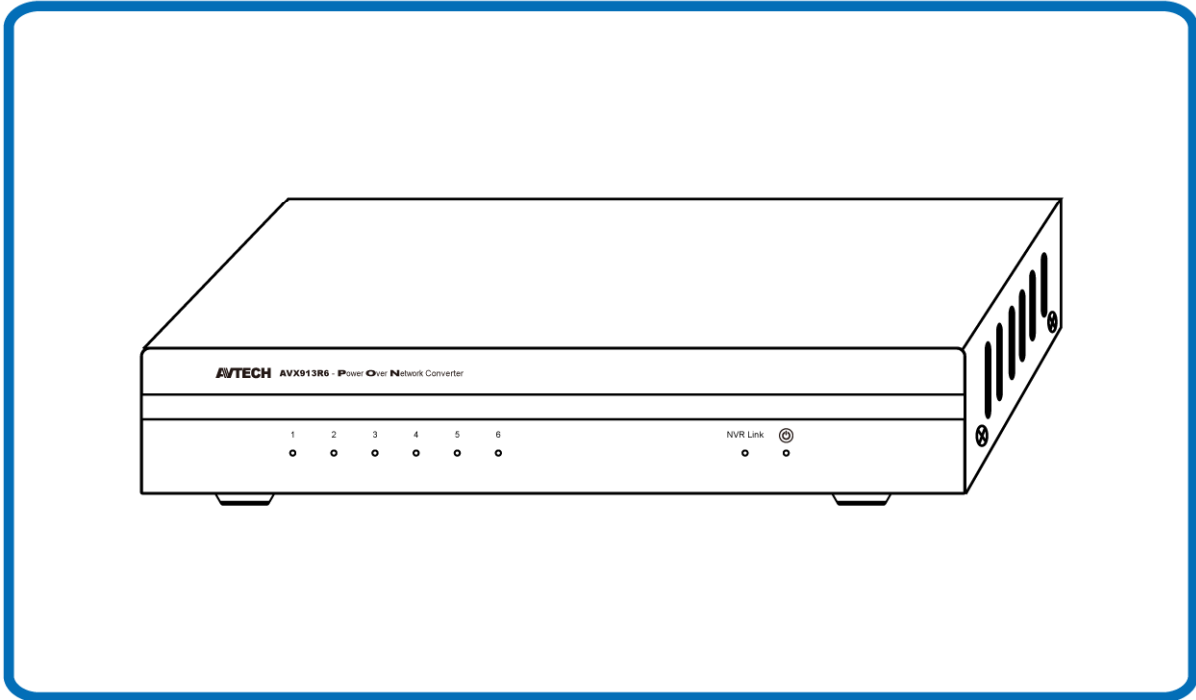


AVX913R6 User Manual

Power over Network Converter



All lead-free products offered by the company comply with requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly “lead-free” and without the hazardous substances cited on the directives.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.

CE Mark



This apparatus is manufactured to comply with the radio interference.

The company does not warrant that this manual will be uninterrupted or error right to revise or remove any content in this manual at any time.

GENERAL DESCRIPTION

- **Power over Network Cable (PoN)**

AVX913R6 supports 48V DC power supply to six IP cameras, and no need to insert additional power.

- **Rich Diagnostic LED Indication**

With LED indications, users can easily perceive the unusual situation to troubleshoot themselves.

- **Flexible Installation**

Multiple pieces of AVX913R6 can be chained together to expand the number of cameras to connect.

SPECIFICATIONS*

Connection	
PoN Port	6
LAN Port	2 (maximum connection distance of 100 meters**)
PoN Data Transmission Speed	10/100 Based-T
LAN Data Transmission Speed	10/100/1000 Based-T
General	
LED Indications	PoN status x 6 NVR link status x 1 Power on status x 1
USB Port	YES
Power Supply ($\pm 10\%$)	External adaptor DC 48V
Max Power for PoN Port	300mA
Power Supply Short Circuit Protection	YES (Resettable fuse)
PoN Short Circuit Protection	YES
Operating Temperature	0°C ~40°C (50°F~104°F)
Dimensions (mm)***	240(L) x 140 (W) x 46 (H)

* The specifications are subject to change without notice.

** The distance of connection might be affected by the cable quality and installation environment

*** Dimensional Tolerance: ± 5 mm.

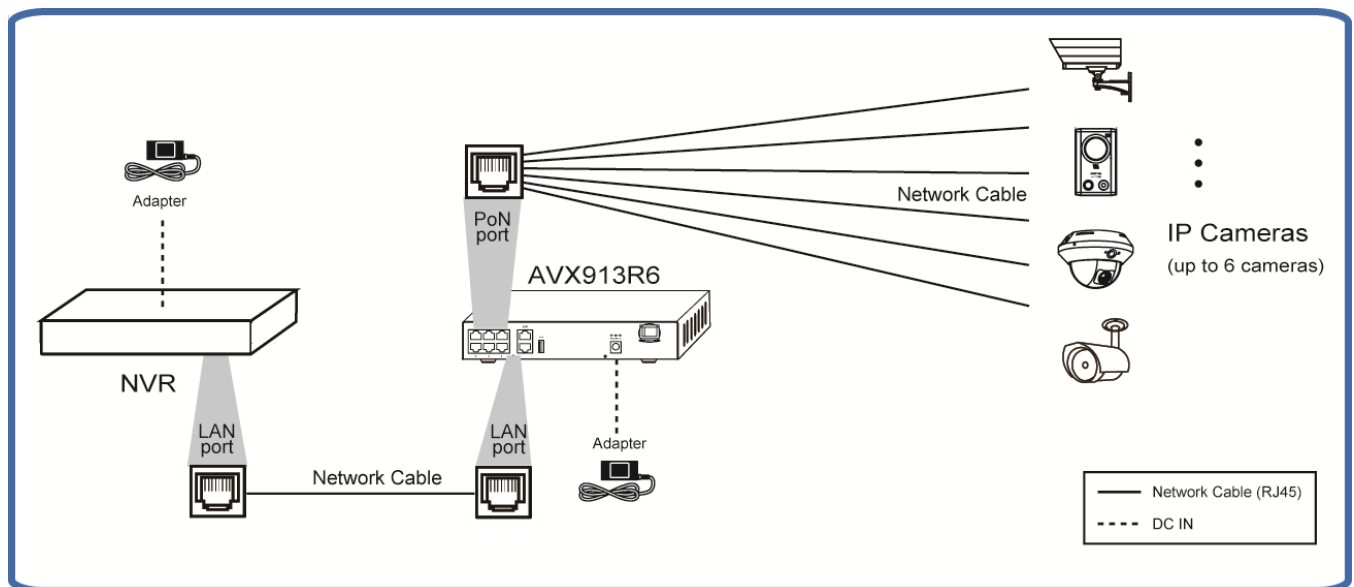
SYSTEM CONCEPT

We have combined NVR, IP cameras, and AVX913R6, PoN converter together to built video surveillance systems with one cable solution, which requires only one cable to operate, and no need to plug in power.

AVX913R6 is using PoN technology to pass electricity, along with data on a network cable. Also, AVX913R6 enables you to connect multiple cameras to NVR at a time.

This simple solution helps you get into IP-based system easily, and especially it requires no additional power and minimizes the clutter of extra cables.

The graph below shows how to connect a NVR, an AVX913R6 and IP cameras altogether.



Step 1: Plug a network cable into the LAN port of NVR and AVX913R6.

Note: The other LAN port on AVX913R6 is to connect AVX913R6 to another one to expand the number of cameras in use.

Step 2: Plug a network cable into PoN port of AVX913R6 and IP camera. (One camera requires one network cable and up to 6 IP cameras)

Step 3: Connect power adapters to NVR and AVX913R6.

Step 4: Turn on the NVR and AVX913R6.

LED STATUS INDICATION

There are multiple LED status indicators on AVX913R6 as shown below to indicate the power and operational status. Please refer to the following table for troubleshooting.

Type*	Color	Description
PoN (A)	Off	No power supply and no connectivity
	Red on	48V DC adapter supplies power to the IP camera; the connection to IP camera is not on or unstable
	Orange on	12V DC adapter supplies power to the IP camera; the connection to IP camera is on
	Green on	48V DC adapter supplies power to the IP camera; the connection to IP camera is on
	Green Blinking	48V DC adapter supplies power to the IP camera; If the current is higher than 300mA, the status starts to blink, and if it exceeds 400mA, the light will rapidly blink
NVR (B)	Off	No connectivity
	Green	Connecting
Power (C)	Off	No power supply
	Green on	48V DC adapter power supply
LAN (D)	Yellow on	LAN speed: Gigabit
	Yellow off	LAN speed: 10/100Mbps
	Green on	LAN port is connected
	Green blinking	Data transmission

* Please see "Product Overview" to see where LED status indicators are located on AVX913R6
 ** If you power a camera from 48V DC adapter in the first place, and then, you connect 12V DC adapter to the camera as well, the camera will receive power via coaxial cables and the camera adapter at the same time; the light would show green.

PRODUCT REVIEW

