

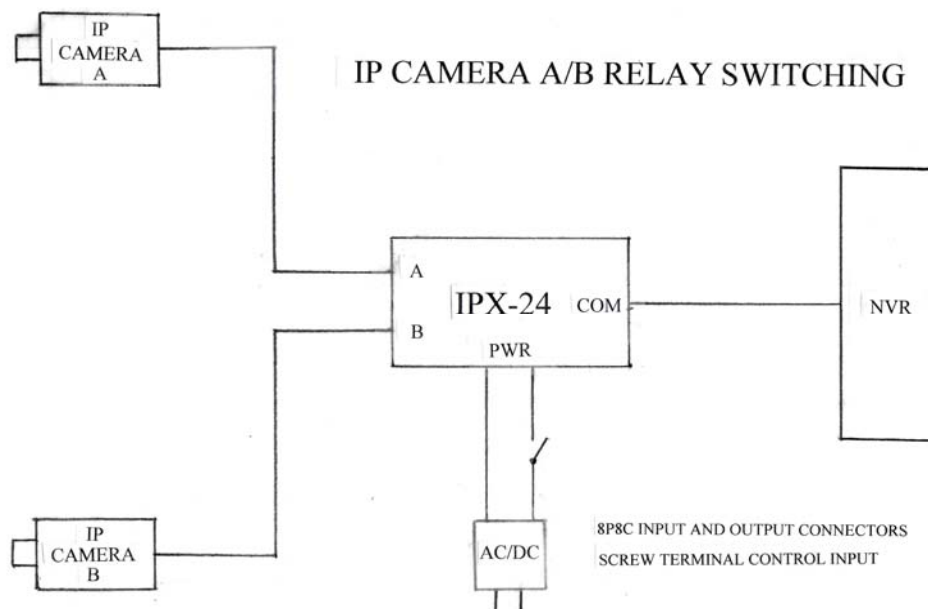
IPX-12/24



12 OR 24 VOLT IP VIDEO A/B RELAY SWITCH

INSTALLATION MANUAL

IB6474-01



DESCRIPTION

The **IPX-24 IP VIDEO RELAY SWITCH** is a 24 Volt operated 2X1 IP video network switch. It is controlled by an external 24 Volt AC or DC power source. With no power applied the network Common (COM) is connected to the primary (A) IP network. When power is applied the unit switches the Common to the secondary (B) network disconnecting the signal and the P.O.E. from the A network. The IPX-12/24 IP video A/B switch has two RJ-45 inputs and one RJ-45 output connector to select between two different network sources. The IP network signal is switched using isolated relay technology so that all forms of data can be controlled and the unit will always pass P.O.E. to the selected channel. The P.O.E. on the un-selected channel will be turned off to save power and increase the life of the IP camera.

The unit can be used to engage a secondary network source or to switch on or off an IP camera using an external switch or remote relay, rather than having to address the camera through the network. In some installations the customer may want to turn off a camera when it is not in use or share one channel of the NVR with two cameras using one at a time under switch control. Use this unit on a court-room IP camera so the judge can cut the camera feed at will.

This switcher is housed in a sturdy ABS plastic enclosure that is completely insulated. The unit is small and light weight and can be mounted to any surface with Velcro strips.

A 12 VDC version of this product is also available by ordering the part number IPX-12. On mobile vehicles the 12 Volt versions can be used to switch from front IP camera to a rear camera by connecting the backup tail light 12 Volt DC power to the unit.

FEATURES

Features of the IPX-24 are standard 8P8C network connectors for input and outputs. A screw terminal connector is used for control power input to operate the relay switch. The unit uses isolated relay technology to reduce cross-talk and improve signal switching. This unit will pass the P.O.E. Power Over Ethernet supply source on the active channel while blocking and powering down the un-used cable. There is a Green LED to indicate when the switch is powered up and channel be is selected. The unit is contained in an ABS plastic enclosure for maximum isolation from the local ground and is light weight and can be mounted to any surface using Velcro strips.

SET-UP AND INSTALLATION

Remove the unit from the packing materials. The following materials should be supplied with each order.

QTY 1	IPX-12/24 (Black Box).
QTY 1	Power Cube 12 or 24 Volt AC or DC
QTY 1	Velcro Strips

Locate a convenient dry place away from harsh environments to mount the unit using Velcro strips. Next attach the Common (Straight) network cable to the 8P8C (RJ-45) connector labeled (COM). Then attach the Primary network cable to the 8P8C connector labeled (A). Next attach the secondary network cable to the connector labeled (B). The network cable that is selected will appear at the COM connector with no power applied.

The last step is to connect the power source for control of the relay. When power is applied to the unit, the relay will switch the COM connector through to the B connector and when the power is removed the unit will revert back to the A channel. This power source can be controlled by an external switch or a relay from other remote control equipment. The switching is accomplished with isolated relays under the control of the input voltage and is not data dependent.

P.O.E. POWER USE.

The unit will pass all forms of P.O.E. Power Over Ethernet to the selected channel and will block P.O.E. on the un-used channel to power down the equipment to reduce the operating hours on the equipment. So when a network is selected the P.O.E. will see the new load and supply the power.

OPERATION

When the power is off the unit will pass the A network to the COM connector and when the power is applied the B network will be connected. In this way two networks can be switched alternately into a single network cable. When the B channel is selected a Green LED will light on the unit. When the LED is not lit it indicates the relay switch is in the A position.

MAINTENANCE

Do not attempt to open the case there are no field adjustments or calibration required for the IPX-12/24.

CAUTION:

This unit is not waterproof and will be damaged if liquid enters the housing. Please mount the unit in a dry place where it will not encounter water, rain or any other source of liquid. This unit is designed for low voltage use. Do Not Apply power above the specified supply Voltages.