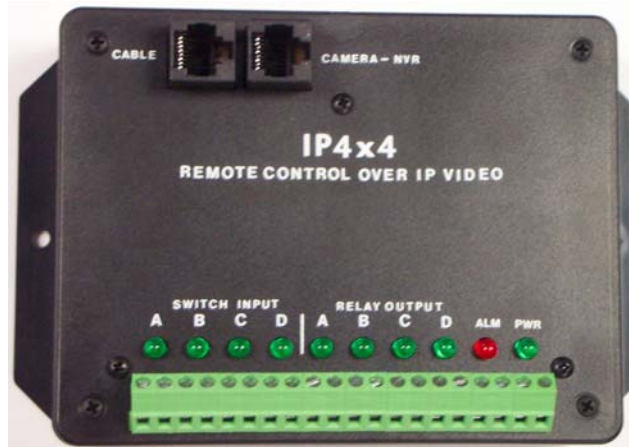# IP4x4

REMOTE CONTROL OVER IP VIDEO

The IP4x4 is a remote control system that puts two way contact relay controls onto any IP video cable without affecting the IP video. Use this to install an access control system or an emergency button out at the camera when the cost of running additional wires is prohibitive. If you have to dig a trench, break holes in walls or tear up concrete this unit can get you the remote control you need without the heavy labor and expense. Then send and receive relay control signals both ways over the same network cable used for the IP Video. The IP4x4 can be use any twisted pair wire and does not require an IP signal to work. Say you want to have a push button at a gate to announce someone at the gate. Then you want to open the gate with a switch in the opposite direction, you can do this with as many as 4 different controls in both directions. That is a total of 8 controls on the same network cable that brings you the IP video signal.

The units have LED indicators for both the input switch signals and the relay output signals to monitor the status of all incoming and outgoing signals. The relay outputs can be set for normally open or normally closed contacts to work with any external equipment requirements. It is powered by 24 Volts AC or DC and can use the same power supply as the camera. This unit is also available in a 12 VDC version at no additional cost, use part number IP4x4-12 at time of order.

For added security the system has a two way "system alarm" relay and LED to indicate loss of communication between the two units caused by a signal disconnect or a cable failure. You get both transceivers with power supplies all included when you order the IP4x4, and you can order this unit with supervised alarm contacts for even more security at no additional cost. When ordering a supervised system, specify the loop resistance and order part number IP4x4S. The IP4x4 will pass "P.O.E. on data", when the P.O.E. is used on the Video lines 1,2 3,6. Lines 4,5 and 7,8 are terminated.

IP VIDEO INPUT	SPECIFICATIONS
Standard	All IP Video Standard
Impedance	Hi-Z (Loop Through)
Connectors	2 8P8C (female)
IP Data Level	800 mVpp standard pass through
Baud Rate	10-100 Mbit

REMOTE CONTROL SIGNAL

RC Cable Input Impedance	100 Ohm standard
RC Cable Output Impedance	100 Ohm standard
RC Data Level	800 mVpp
Contact Input Connectors	2 Position Screw Terminal (4 inputs)
Contact Output Connectors	2 Position Screw Terminal (4 outputs)
System Alarm Connector	2 Position Screw Terminal (1 output)
RC Loop "Supervision"	Optional Please Specify

NETWORK WIRING

Network Cable	Loop though (straight)

MECHANICAL

Size	5.50"L X 3.3"W X 2.0"D
Power	24 Volts AC/DC 100mA
Power cube	24 Volts AC (2 included)

REMOTE CONTROL OVER IP VIDEO CABLE
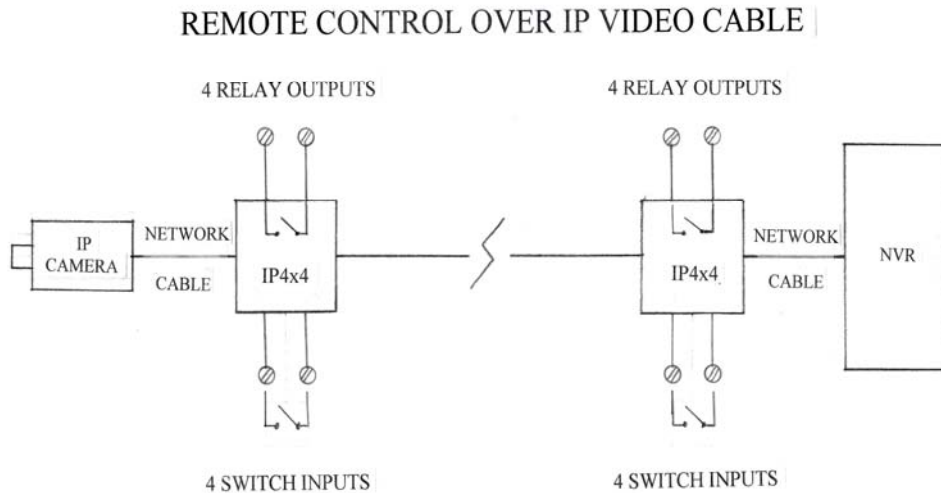
IP4x4 BLOCK DIAGRAM

IP4x4spc