7、Common Faults and Solutions

Failure	Possible Cause	Solution
After installation, only shows 1-way video signal	1, superimposed input and output termination anti 2, the power did not pick a good	1, confirm the signal input and output connections are correct 2, a re-examination before the back-end equipment, power connections, if necessary, replace the power supply
Overlay control signal, only display video signals, don't control	1、Superposition of input and output termination wrong? Or Control signals not connected to the "1" interface 2, the signal input and output ports being exposed? 3, the control signal is set correct?	1, confirm the signal input and output terminal is connected correctly 2, check the input and output side of the connector to ensure proper connection 3, re-set the PTZ control parameters
After installation, no video signal output	1, the transmission distance is too long 2.Cable is open circuit (or short)? 3, equipment damage	1, confirm transmission cable distance did not exceed limits 2, check the coaxial cable 3, replacement of equipment

3In1 Signal Superimpose device
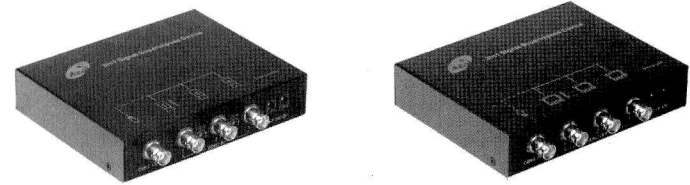
1、Product Overview

2in1 Signal Superimpose devices to increase the signal superimposed 1-way transmission of video signals, that is 3in1 signal superimposed device。The 3-way video signal (or 2-way video signals, a road PTZ control signals) Superimpose to the simultaneous transmission of a video coaxial cable。Used in the scene becomes increasingly complex, hard wiring of new construction or renovation projects，Save wire, to reduce the construction difficulty. . To use the existing coaxial cable enables the video camera surveillance points and to increase the expansion of PTZ control functions.

2、Features：

◆、To control signals and multiple sets of video signals transmitted simultaneously in achieve a coaxial cable。

◆、Signal Selection flexible, convenient：The actual situation based on the engineering，One coaxial cable can transmit 3-way video signals Or 2-way video and one way RS485 control signals

◆、Supports all communication protocols of the transmission

◆、Use of advanced technology solutions and performance of the integrated chip, ensuring the stability of equipment, work long hours

◆、Using plug-type design, loading and unloading easy, plug and play, support hot swap.

◆、Construction of simple, convenient installation and maintenance without the need for debugging

3、Specifications：

◆、Nominal input and output level：1Vp-p

◆、Nominal input and output impedance：75Ω

◆、RF Output Level：105db

◆、Working Power：Transmitter：3W Receiver：4W

◆、Voltage：DC 12V±5％

◆、Temperature：-40℃～+50℃

◆、Size (mm)：141(W)*112(D)*30(H)

4、Transmitter Schematic：
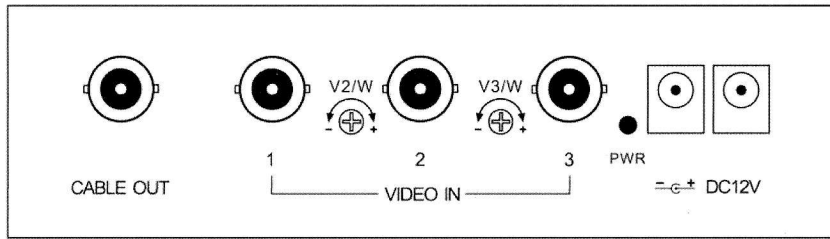
◆、DC12V：Operating voltage input interface

◆、PWR：Work lights

◆、CABLE OUT：With the coaxial cable connected to the signal output BNC interface

◆、VIDEO IN 1：video signal input BNC interface (or control signal output interface)

◆、VIDEO IN 2、3：video signal input BNC interface

◆、V2/W："2" video signal input amplitude size of the adjustment knob.

◆、V3/W："3" video signal input amplitude size of the adjustment knob.

5、Receiver Schematic：
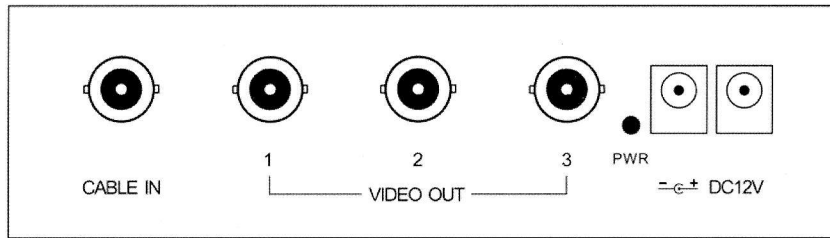
◆、DC12V：Operating voltage input interface

◆、PWR：Work lights

◆、CABLE IN：With the coaxial cable connected to the signal input BNC interface

◆、VIDEO OUT 1：video signal output BNC interface (or control signal input interface

◆、VIDEO OUT 2、3：video signal output BNC interface

6、Devices to connect steps and diagram：
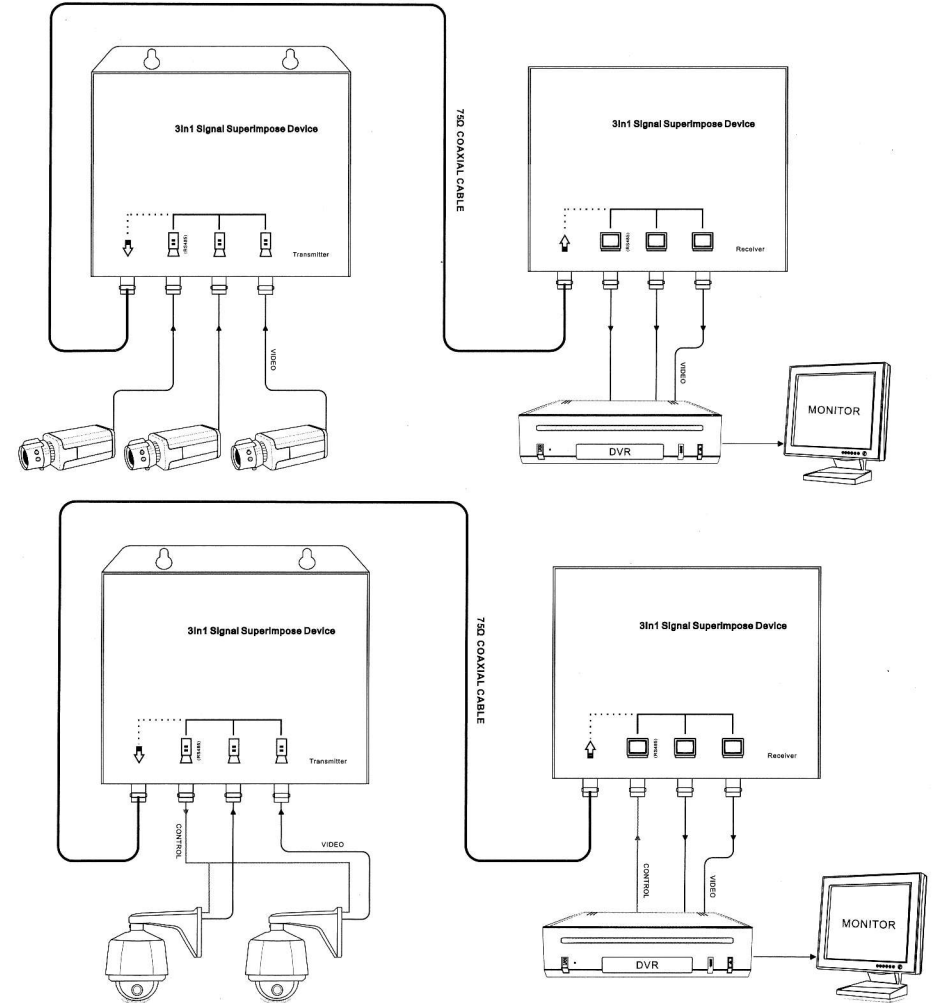
◆、The signal Superimpose device is connected in series in the video coaxial cable transmission line in the，input terminal with the camera (decoders and other equipment) connected，Output and the VCR and other display devices connected to。

◆、3-way input and output signals must be one correspondence. Transmission Control (or other) signals, RS485 control signal lines must be connected to the "1" input and output interface.

◆、Appropriate and necessary, adjust video input "V/W2", "V/W3", so "VIDEO2, 3" satisfactory image