

# ATU-2HD / ARU-2HD



## RELAY TRANSMITTER AND RECEIVER

These products transmit and receive relay control contact closures encoded on any video signal such as AHD, HD-TVI, HD-CVI, PAL, and NTSC Video over cable, twisted pair wire, or wireless system. You can send your relay control signals anywhere a video signal is being used, including optical laser transmission and wireless transmission of video. Relay control signals will be carried over any distance that the video signal can go. Control and tele-metering relay contact closures are encoded onto the video signal by the ATU-2HD unit and decoded in the ARU-2HD unit with relay outputs.

Each ATU-2HD/ARU-2HD will send two contact control relay signals in the vertical interval of the video without interfering with the picture. The units are field programmable to insert the signal on 8 lines in the vertical interval so up to 4 systems can be used on the same video signal by selecting different lines for each system. Up to 4 systems can be used to provide a maximum of 8 control relays. The video format is field programmable for HD-TVI, HD-CVI, AHD, PAL and NTSC or CVBS video with the 8 position DIP switch. To program the units, use the lookup table in the instruction manual and set the DIP switches on the transmitter and receiver units to match the video you are using. Both transmitter and receiver should have the same switch settings.

One channel of the ATU-2HD / ARU-2HD can be used as a system alarm that will operate upon loss of power to either terminal, loss of the video signal or loss of transmission path, a cable cut, or wireless failure. The unit has a video loop through so in the event of power failure, the video through-put is not interrupted. Contact closures to the ATU-2HD input will be repeated as contact relay closures at the ARU-2HD output.

The system is housed in an ABS enclosure that has a UL flame rating of 94-VO and is powered by 12 Volt AC or DC power transformers (12 Volt DC power cubes are supplied with the units). The current draw is low allowing the units to be connected to the same power supply as the camera. Both the transmitter and the receiver have power/video on LED indicators for easy set-up and the ARU-2HD has two LEDs to monitor the relay outputs.

## ATU-2HD RELAY TRANSMITTING UNIT

### CONTACT INPUT

Channels  
Alarm Sense  
Maximum Loop Resistance

### SPECIFICATIONS

2 Connector 4 Pos. Screw Terminal  
Contact closure (Loop)  
2K ohm

### VIDEO INPUT

Standard (Field Selectable)

TVI 720p 25/30fps, TVI 1080p 25/30FPS,  
TVI 4MP 15/25/30fps, TVI 5MP 12.5/20fps CVI 720P 25/30fps,  
CVI 4MP 25/30fps AHD 720P 25/30fps, AHD 1080P 25/30fps  
AHD 4MP 15/25/30fps, AHD 5 MP 12.5/20fps PAL 625L 50Hz,  
NTSC-CVBS 525L 60Hz

Impedance  
Connectors  
Line Selection

Hi-Z Video loop through  
2 BNC (female) Standard  
(Field Agile) 8 Lines(3-4, 7-8, 11-12, 15-16)

### MECHANICAL

Size  
Power  
Power cube

5.50"L X 3.3"W X 2.0"D  
12 Volts AC/DC 40 mA  
12 Volts DC (included)

## ARU-2 ALARM RECEIVING UNIT

### RELAY OUTPUT SPECIFICATION

Channels  
Relay Type, Current

2 Connector 4 Pos. Screw Terminal  
C Form Relay 1 Amp (N.O. N.C. Selectable)

### VIDEO INPUT

Standard (Field Selectable)  
Impedance  
Connector  
Line Selection (Field Agile)

Matching ATU-2HD  
Hi-Z Video loop through  
2 BNC (female) Standard  
8 Lines (3-4, 7-8, 11-12, 15-16)

### MECHANICAL

Size  
Power  
Power Cube

5.50"L x 3.3"W x 2.0"D  
12 Volts AC/DC 40 mA  
12 Volts DC (included)