

# Connection Products

Ver.1.0

- |                                  |                                 |                                |                                  |
|----------------------------------|---------------------------------|--------------------------------|----------------------------------|
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| <input type="radio"/> 15-U414VPD | <input type="radio"/> 15-VA104  | <input type="radio"/> 15-PC02S | <input type="radio"/> 15-SP05VPD |
| <input type="radio"/> 15-UA102RM | <input type="radio"/> 15-VD102M | <input type="radio"/> 15-RS01R | <input type="radio"/> 15-SP06U   |
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# Connection Product

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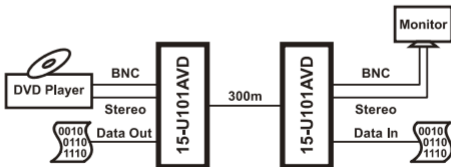
16CH DATA / VIDEO Surge Protector \_P.19

## ■ Twisted Pair

### 15-U101AVD

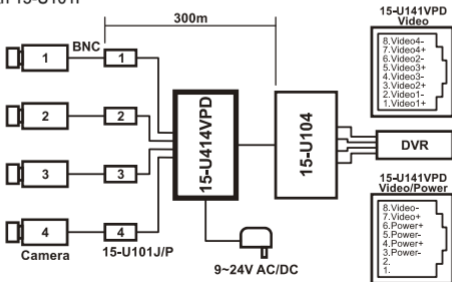
#### 1CH Video/Stereo Audio/Data UTP Transceiver

- 1 CH Video/Stereo Audio/Data Transmission via RJ45
- DC to 8MHz bandwidth
- BNC plug and RCA jack and Terminal block to RJ-45 jack
- Video transmission distance 300M(color) / 600 M(B/W)
- Built-in impedance coupling device and noise filter
- Terminal block x 1
- BNC connector x 1 (Female)
- Audio Input (RCA Connector) x 2
- RJ-45 Connector x 1
- Cable: Twisted Pair CAT5
- Built in 2KV surge protector for video, audio



## 15-U414VPD 4CH Video UTP Hub with Power

- 4xRJ45 to 1xRJ45 (UTP HUB) with Power
- DC to 8MHz bandwidth
- Video transmission distance can be 300M(Color) / 600M(B/W)
- With 15-U101 series or 15-U104
- Combine 4 UTP cables to 1 cable
- Terminal block for DC input, when used with 15-U101P
- Transmits power to camera from remote site
- RJ-45 connector: RJ-45 x 4 to 1
- Terminal block: 2-pin for power or Data
- Cable: Twisted Pair CAT5 (EIA/TIA568B)



## SPECIFICATIONS

### Video Input

15-U101AVD ..... 1 composite video (BNC)

15-U414VPD ..... 1 composite video (BNC)

### Audio Input

15-U101AVD ..... 2 RCA (stereo)

### Data Input

15-U101AVD, 15-U414VPD ..... Terminal block

### Surge Protector

15-U101AVD ..... 2KV for power + video

### Power Input

15-U414VPD ..... Terminal block (same as Data input)

### Dimensions

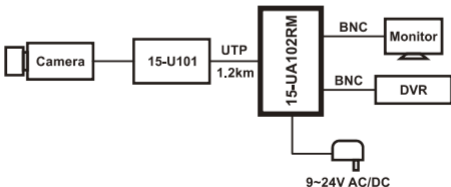
15-U101AVD, 15-U414VPD ..... 110 (W) x 62(H) x 30(D) mm

## ■ Active Twisted Pair

### 15-UA102RM

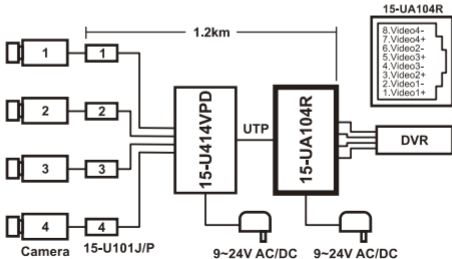
#### 1CH Video Active Receiver

- 1 channel video in and 2 video out
- DC to 8MHz bandwidth, video gain compensation
- Built in highly balanced video mode
- Transient protection and ground separation,
- Damaging voltage spark problems are eliminated
- Built in auto brightness, sharpness control (Auto Equalizer)
- DC/AC 9 ~24V operation
- LED display: power
- Built in 2KV surge protector for power, video
- Built in 15KV Electrostatic Discharge



## 15-UA104R 4CH Video Active Receiver

- 4 channel video active receiver
- DC to 8MHz bandwidth, video gain compensation
- Built in highly balanced video mode
- Transient protection and ground separation,
- Damaging voltage spike problems are eliminated
- Built in auto brightness, sharpness control (Auto Equalizer)
- 9~24V AC/DC
- LED display: power
- Built in 2KV surge protector for power, video
- Built in 15KV Electrostatic Discharge



## SPECIFICATIONS

### Power Input

15-UA102RM, 15-UA104R ..... 9~24V AC/DC

### Power Consumption

15-UA102RM ..... 0.7W

15-UA104R ..... 2.2W

### Surge Protector

15-UA102RM ..... 2KV for power 、 video

15-UA104R ..... 2KV for power 、 video

### Electrostatic Discharge

15-UA102RM ..... 15KV ESD

15-UA104R ..... 15KV ESD

### Video Input

15-UA102RM ..... 1 terminal block

15-UA104R ..... 4 terminal blocks or RJ45

### Video Output

15-UA102RM ..... 2 BNC

15-UA104R ..... 4 BNC

### Auto Equalizer

15-UA102RM, 15-UA104R ..... Built-in

### Power LED

15-UA102RM, 15-UA104R ..... Built-in

### Dimensions

15-UA102RM ..... 93.4 (W) x 37.5(H) x 45(D) mm

15-UA104R ..... 110 (W) x 62(H) x 30(D) mm

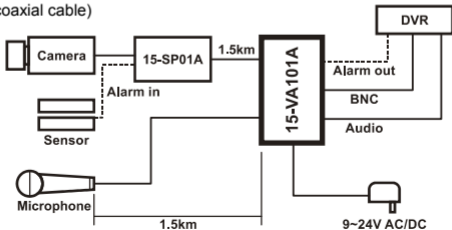


## ■ Amplifier

### 15-VA101A

#### 1CH Video Amplifier with Audio

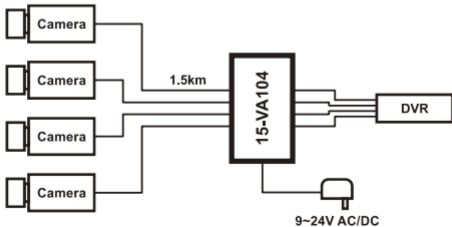
- 1 CH video with audio input and output
- DC to 8MHz bandwidth, video gain compensation
- Audio level adjustment
- HF compensation
- 10dB adjustable image gain
- Sharpness and Brightness adjustment
- Transmission range: 1,500 meters (RG59 coaxial cable)
- Red LED power on/off, green LED alarm triggered
- For video camera, multiplexer, VCR, DVR etc.
- 9~24V AC/DC
- Built in alarm receiver and alarm output, use with 15-SP01A
- Built in 2KV surge protector for power, video, audio
- Built in 15KV Electrostatic Discharge



## 15-VA104

### 4CH Video Amplifier

- 4 CH video input and output
- DC to 8MHz bandwidth, video gain compensation HF compensation
- 10dB adjustable image gain
- Sharpness and brightness adjustment
- Transmission range: 1,500 meters (RG59 coaxial cable)
- Red LED power on/off
- For video camera, multiplexer, VCR, DVR etc.
- 9~24V AC/DC
- Built in 2KV surge protector for power, video
- Built in 15KV Electrostatic Discharge



## SPECIFICATIONS

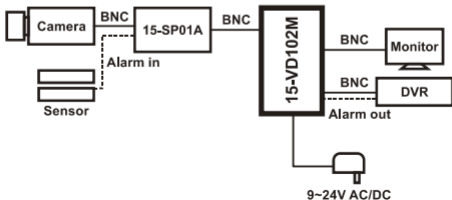
<b>Power Input</b> .....	9~24V AC/DC
<b>Power Consumption</b>	
15-VA101A .....	0.23W
15-VA104 .....	1W
<b>Video Signal</b> .....	1Vp-p, 75 ohms
<b>Surge Protector</b>	
15-VA101A .....	2KV for power 、 video 、 audio
15-VA104 .....	2KV for power 、 video
<b>Electrostatic Discharge</b>	
15-VA101A .....	15KV ESD
15-VA104 .....	15KV ESD
<b>Dimensions</b> .....	110(W) x 62(H) x 30(D) mm
<b>Video Input</b>	
15-VA101A .....	1 composite video (BNC)
15-VA104 .....	4 composite video (BNC)
<b>Video Output</b>	
15-VA101A .....	1 composite video BNC)
15-VA104 .....	4 composite video (BNC)
<b>Audio Input</b>	
15-VA101A .....	1 RCA
<b>Audio output</b>	
15-VA101A .....	1 RCA
<b>Adjustment</b>	
15-VA101A .....	1 VR (brightness)
	1 VR (sharpness)
	1 VR (volume)
15-VA104 .....	4 VR (brightness)
	4 VR (sharpness)
<b>Alarm</b>	
15-VA101A .....	alarm output (N.O)

## ■ Distributor

### 15-VD102M

#### 1CH Input to 2CH Output Video Distributor

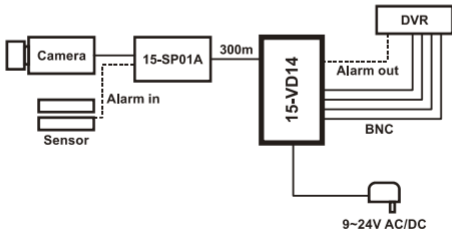
- 1 CH video input and 2 CH video output
- Compatible NTSC or PAL
- BNC connectors
- Video input: 0.8~1.2Vp-p, 75 $\Omega$
- Video output 1Vp-p (Standard) 75 $\Omega$
- DC to 8MHz video bandwidth
- 9~24V AC/DC
- LED display: power, alarm
- Built in alarm receiver and alarm output, use with 15-SP01A
- Built in 2KV surge protector for power, video
- Built in 15KV Electrostatic Discharge



## 15-VD14

### 1CH Input to 4CH Output Video Distributor

- 1 CH video input and 4 CH video output
- Compatible NTSC or PAL
- BNC connectors
- Video Input: 0.8~1.2Vp-p, 75Ω
- Video Output 1Vp-p (Standard) 75Ω
- DC to 8MHz Video Bandwidth
- 9~24V AC/DC
- LED display: power, alarm
- Built in alarm receiver and alarm output, use with 15-SP01A
- Built in 2KV surge protector for power, video
- Built in 15KV Electrostatic Discharge



## SPECIFICATIONS

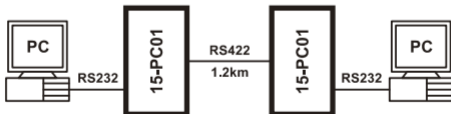
<b>Power Input</b> .....	9~24V AC/DC
<b>Power Consumption</b>	
15-VD102M .....	0.3W
15-VD14 .....	0.3W
<b>Video Signal</b> .....	1Vp-p, 75 ohms
<b>Surge Protector</b>	
15-VD102M .....	2KV for power, video
15-VD14 .....	2KV for power, video
<b>Electrostatic Discharge</b>	
15-VD102M .....	15KV ESD
15-VD14 .....	15KV ESD
<b>Dimensions</b>	
15-VD14 .....	110 (W) x 62(H) x 30(D) mm
15-VD102M .....	93.4 (W) x 37.5(H) x 45(D) mm
<b>LED Indicator</b>	
Power (Red) .....	15-VD102M, 15-VD14
Alarm (Green) .....	15-VD102M, 15-VD14
<b>Video Input</b>	
15-VD102M .....	1 composite video (BNC)
15-VD14 .....	1 composite video (BNC)
<b>Video Output</b>	
15-VD102M .....	1 composite video (BNC)
15-VD14 .....	4 composite video (BNC)
<b>Alarm</b>	
15-VD102M .....	alarm output (N.O)
15-VD14 .....	alarm output (N.O)

## ■ Control Series

### 15-PC01

#### Isolated RS-232 to RS-422/RS-485 Converter

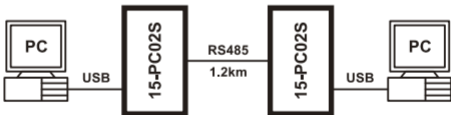
- ADDC (Automatic Date Direction Control) RS-422 date control
- Auto Baud Rate Sensing- Switch setting for RS-422
- Over current protection when 2 signals are shortened together at the RS-422 / 485 end
- 32 Units connected together in RS-485 multi-drive operation
- Built in 2KV surge protector
- Built in 15KV Electrostatic Discharge
- Built-in termination resistors
- 9~24V AC/DC



## 15-PC02S

### USB / RS-485 Converter

- Half-Duplex USB 2.0 / RS485 Converter
- No power required
- Built in 2KV surge protection
- Built in 15KV Electrostatic Discharge

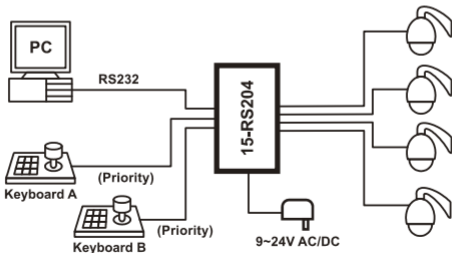




## 15-RS204

### 2+1 In 4 Out RS485 Distributor with Input Priority Control

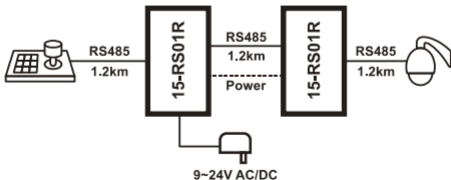
- RS-485 distributor 2 input 4 output with priority control
- Input: 2 x RS-485, 1x RS232 ; Output: 4 x RS-485
- 4 ports RS-485 serial outputs the data sending back from the input
- Distance is up to 1200M by Twisted Pair cable
- Ability to cascade connection to other 15-RS204
- 9~24V AC/DC
- The application gives serial data back on 4 outputs at the same time to provide perfect configurations
- Built in 2KV surge protector
- Built in 15KV Electrostatic Discharge



## 15-RS01R

### RS485 Data Converter

- Repeater from RS485 data signal to RS-485 up to 1200 meters
- Plug in spring clamp terminal block for easy wiring
- Power input from AC/DC terminal block
- Auto detected Baud rate maximum up to 115.2 Kbps
- Built in 2KV surge protector
- Built in 15KV Electrostatic Discharge
- 9~24V AC/DC



## SPECIFICATIONS

**Power Input** ..... 9~24V AC/DC

### Power Consumption

15-PC01 ..... 0.36W

15-RS204 ..... 0.72W

15-RS01R ..... 0.12W

### Surge Protector

15-PC01 ..... 2KV

15-PC02S ..... 2KV

15-RS204 ..... 2KV

15-RS01R ..... 2KV

### Electrostatic Discharge

15-PC01 ..... 15KV ESD

15-PC02S ..... 15KV ESD

15-RS204 ..... 15KV ESD

15-RS01R ..... 15KV ESD

### Dimensions

15-PC01 ..... 110(W) x 62(H) x 30(D) mm

15-PC02S ..... 55.8(W) x 26.5(H) x 17(D) mm

15-RS204 ..... 110(W) x 62(H) x 30(D) mm

15-RS01R ..... 61(W) x 31(H) x 23(D) mm

### LED Indicator

15-PC01 ..... TX, RX

15-RS204 ..... Priority indicator

### Communication Port

15-PC01 ..... RS232 To RS422/RS485

15-PC02S ..... USB to RS485

15-RS204 ..... RS485/RS232 To RS485

15-RS01R ..... RS485 To RS485

## ■ Surge Protector

### 15-SP01A

#### Surge Protector with Alarm Converter

- 1 BNC input, 1 BNC output with surge protection
- 1 terminal for alarm input
- Alarm signal out via BNC
- 15-VA101A, 15-VD102M, 15-VD14 for receiver
- No alarm cable request
- No power request
- Built in 6KV surge protection
- Built in 15KV Electrostatic Discharge

### 15-SP05VPD

#### VIDEO / POWER / DATA Surge Protector

- 3 stages protection (Low voltage, high voltage, over current)
- Perfect for Speed Dome or Camera...etc.
- Built in 6KV surge protection
- Built in 15KV Electrostatic Discharge

## 15-SP06U

### 10/100/1000 Isolation LAN Surge Protector

- RJ45 Jack to RJ45 Jack
- Four pairs protection
- Perfect for Network, PC, NVR, IP Camera, server...etc
- Built in 6KV surge protection
- Built in 15KV Electrostatic Discharge

## 15-SP16BT

### 16CH DATA / VIDEO Surge Protector

- Perfect for 16 CH Video or 16 CH Data surge protection
- Provide protection for DVR, multiplexer or any equipment with multiple video or Data inputs
- 3 stages protection (Low voltage, high voltage, over current)
- No power required
- Built in 6KV surge protection
- Built in 15KV Electrostatic Discharge
- Dimension: 440WX80HX44D (mm)

**SPECIFICATIONS****Surge Protection Attack Time**

15-SP01A, 15-SP05VPD, 15-SP06U, 15-SP16BT \_\_\_ ≤700ms/1KV

**Maximum Surge Current**

15-SP01A, 15-SP05VPD, 15-SP06U, 15- SP16BT \_\_\_ 5000A

**Surge Life**

15-SP01A, 15-SP05VPD, 15-SP06U, 15-SP16BT \_\_\_ 3000 surges of 100Amps

**Normal Resistance Across Cable**

15-SP01A, 15-SP05VPD, 15-SP06U, 15- SP16BT \_\_\_ 10,000MΩ

**Surge Resistance**

15-SP01A, 15-SP05VPD, 15-SP06U, 15- SP16BT \_\_\_ Approx.0Ω

**Power passing Capability**

15-SP05VPD \_\_\_\_\_ AC 24V/2.5A (MAX)

**Insertion Loss**

15-SP01A, 15-SP05VPD, 15-SP06U, 15- SP16BT \_\_\_ Less than 0.2dB

**Return Loss (75)**

15-SP01A, 15-SP05VPD, 15-SP06U, 15- SP16BT \_\_\_ 16dB

**Alarm**

15-SP01A \_\_\_\_\_ N.O Trigger

## Connector

15-SP05VPD	BNC for Video, Terminal Block for Data & Power
15-SP06U	RJ45
15-SP16BT	BNC or Terminal

## Dimensions

15-SP05VPD	50 (W) x 61 (H) x 36.4(D) mm
15-SP06U	61 (W) x 31 (H) x 23 (D) mm
15-SP16BT	440 (W) x 80 (H) x 44 (D) mm

## Weight

15-SP05VPD	109g
15-SP06U	28g
15-SP16BT	1.52Kg

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