Twisted Pair Transmission System – Auto Gain Active Series

ITEM NO.: TTA111VA (TTA111VT + TTA111VHA) Auto Gain Active Transmitter+Receiver

Features:
- To send a full motion color video signal up to 2KM over UTP cable with TTA111VA.
- Transmitter built in L, M, and H high frequency video gain.
- Built in two mode auto gain control at receiver.
- Built in transient protection and ground lifting, damaging voltage spike problems are eliminated.
- Perfect for high resolution TVL camera.
- Up to multi pieces TTA111VT transmitter can work with auto gain 4 channel Hub TTA414VRA or 1U rack mounting TPA008A/TPA008AH, TPA016A/TPA016AH auto gain receiver panel.

Installation View:
Work with Passive Transmitter 1.5KM, Active Transmitter TTA111VT up to 2KM.

Panel view & Function:

TTA111VT

LED Indication:
Green: ON / Power on

Slide Dip Switch for Video Gain:
- L: High frequency gain - 6 dB
- M: High frequency gain +3 dB
- H: High frequency gain +6 dB
**TTA111VHA**

**LED Indication:**
Green: Power On/off

**Auto Gain 2 Mode Function:**

<table>
<thead>
<tr>
<th>MODE</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODE1</td>
<td>Fix the auto gain value after Automatic Equalization successful completed</td>
</tr>
<tr>
<td>MODE2</td>
<td>Continuously and Automatically Equalization</td>
</tr>
</tbody>
</table>

**MODE1:** Suitable for general application. If need the re- equalization, please switch to mode 2, then switch back to mode 1.

**MODE2:** Suitable for special environment application. It automatically detects the cable length and continued to do equalization.

**Troubleshooting:**
The unit built in transient protection, please make sure to make grounding.

**Option:**
To protect high value camera and CCTV image processor/monitoring equipment destroyed from high voltage surges from nearby lightning strikes, the long-range twisted pair cable go through outdoors.
To add surge protection SP003-SP006 device on the back of camera and front of CCTV image processor/monitoring equipments. Small money to save high value CCTV equipments.

**ITEM NO:** SP003, SP004, SP005, SP006 SURGE PROTECTOR

Recommend WT104PE Outdoor CAT5 UTP Twisted Pairs cable with PE jacket and steel wire, and use surge protector SP003-SP006 to avoid the damage of twisted pair system under lightning, thunderstorm weather environment.
### Specification:

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>TTA111VT</th>
<th>TTA111VHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Format</td>
<td>NTSC / PAL</td>
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</tr>
<tr>
<td>Video Input</td>
<td>BNC x 1 (75 Ω, 1 Vp-p)</td>
<td>4 pin removal terminal x 1 (100 Ω, 1 Vp-p)</td>
</tr>
<tr>
<td>Video Output</td>
<td>4 pin removable terminal x 1 (100 Ω, Max 3 Vp-p)</td>
<td>BNC x 1 (75 Ω, 1 Vp-p)</td>
</tr>
<tr>
<td>Switch</td>
<td>Slide switch x 1</td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>DC 12V 500mA</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>75 mA (Max)</td>
<td>100mA</td>
</tr>
<tr>
<td>Temperature</td>
<td>Operation: 0 to 55°C, Storage: -20 to 85°C, Humidity: up to 95%</td>
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</tr>
<tr>
<td>DIMENSIONS</td>
<td>mm 43.2 × 74 × 45.2</td>
<td></td>
</tr>
<tr>
<td>WEIGHT</td>
<td>g 55</td>
<td></td>
</tr>
</tbody>
</table>

### Option For TTA111VA:

TPN009 2U RACK MOUNTING PANEL

**Features:**
- Ideal for security monitoring stations or video distribution hubs.
- Standard 19-inch (482mm) wide, 3.5-inch (88mm) 2U high.
- Supports up to 9 pieces of TTA111VT OR TTA111VHA.
- This heavy-gauge panel is designed to withstand the mechanical load of multiple cables.