

# Broadcast Video Amplifier/Distributors

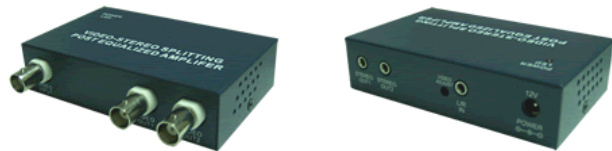
## single potentiometer synchronized Brightness/Sharpness control

100-1000m Video Signal Transmission Distance via Coaxial Cable in CCTV  
Ground Loop Isolation, 250MHz Broadcast Video Bandwidth, +12VDC Power Supply

## OPERATION MANUAL



Broadcast Video Weighted Amplifier w/Brightness-Sharpness Control



1to2 Broadcast Video Distributor w/Brightness-Sharpness Control (Stereo Distribution Optional)



1to3 Broadcast Video Distributor w/Brightness-Sharpness Control (Stereo Distribution Optional)

### Description:

The single channel broadcasting video amplifier, splitter/distributors have single potentiometer synchronized 'GAIN' –(Brightness) and 'E.Q.' (Sharpness)control, Low Pass Filter (LPF) video Butterworth filtering, broadcasting distribution and ground loop isolation circuits, which are professionally designed for CCTV video signal amplifying, transmission and video distribution applications which are required high performance video signal restoration over coaxial cable.

### Features:

- BNC-F input /output for video signal
- Video ground loop isolation
- Butterworth video filter for 0-6MHz Low Pass Filter (LPF)
- 0-12dB Variable Gain Control (VGA) – Brightness control
- 3 dominant poles weighted pre-emphasis/equalizer at 1M/2.2M/3.58M - E.Q.-Sharpness control
- Input signal clamping, transient surge and ESD protection
- 1to2 port broadcast splitting/distribution
- up to 2000m transmission distance over pure copper coaxial cable (75-5) (with fully compensation)
- +12VDC/500mA Power adaptor supply
- Whole metal case, equivalent grounding mounting hole

### Specification:

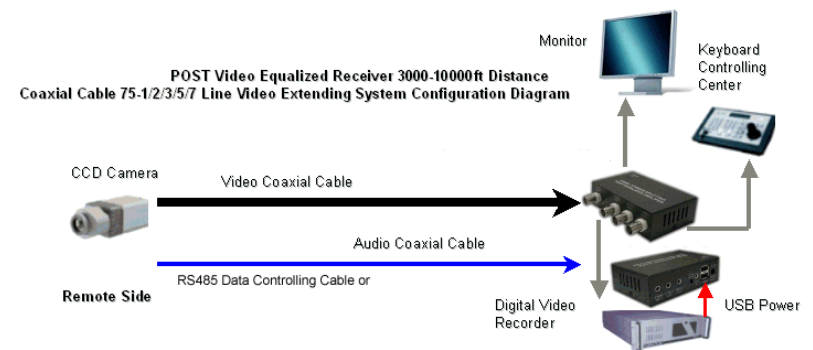
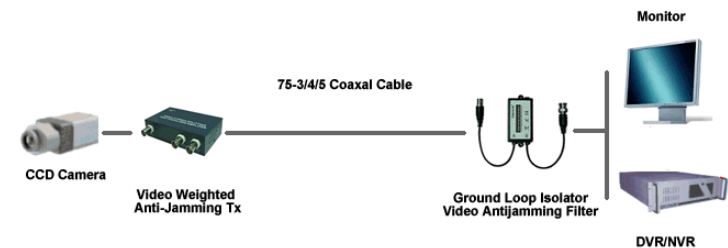
- Bandwidth: 250MHz @ -3dB
- Input/output Impedence: 75ohm
- I/O Video Signal Range:  $\pm 0.5V$  to  $\pm 2Vp-p$
- CMRR: over 68dB
- Return Loss: 22dB

Flat Gain: 6dB@1K-1MHz, 7.8dB@ 1.5M-5.8MHz  
Differential Gain: 0.93% @ 3.58MHz  
Differential Phase: 0.98° @ 3.58MHz  
Power: 110V to 220V AC/ 50-60Hz  
Power Dissipation: 1.5W/2.0W – video amplifier/1-2 video splitter/distributor  
Working Temperature: -20C to +65C  
Storage Temperature:-45C to -85C  
Size: 102x62x25mm LxWxH (not including BNC connector)

### Installation:

1. Run cameras or DVR/NVR and put single channel video amplifier at cameras or DVR/NVR' side.
2. Connect coaxial cable male BNC connectors connect to input/output female BNC connectors.
3. Put the right INPUT/OUTPUT BNC connectors to right input and output coaxial cables.  
Please pay attention to the wirings and order of BNC connectors for Video Signal input/output, it is easy to make the mistake at this step. Please make sure you get one input coaxial cable to INPUT, and the balance coaxial cable to OUTPUTS of the amplifier/distributors.
4. Put the +12V DC power plug to device's DC jack and LED indicator turn on.
5. Clockwise screw the 'VEDIO ADJUST' potentiometer the right position to make image has right Brightness and Sharpness.
6. Mounting the device to metal housing/rack through the bottom back mounting holes, it to be important as equivalent grounding as lightning and surge immunity.

### 100-500m CCTV Anti-Jamming Video Transmission System Diagram Configuration



### Warranty:

Our products have a limited lifetime warranty. We warrant that this product is to be free from defect in materials and workmanship, for the life of the product. The warranty given by us is in lieu of any other warranties, express or implied. This warranty does not apply to units abused through misuse or subjected to improper and/or excessive voltage, beyond our control. We assume no responsibility for damages or penalties incurred resulting from the use of this product. Our liability under any warranties shall be discharged by replacing or repairing, at our option, the defective product. Our liability for any product shall not exceed a refund of the purchase price. The warranty listed here is intended only as a summary of your full and complete warranty. For a full and complete warranty of this product, please contact us.

### Caution:

Do not attempt to open the body, as there are no user-serviceable parts inside Balun.  
Opening the unit will void your warranty.  
All contents above are subjected to change without notice.