

# Video Amplifier

**ITEM NO.: CA101VH**

CA101VH, are amplifiers for long- range video transmission up to 1000 meters over RG59 coaxial cable. They are suitable for far distance, different floor in a building or different electrical field.

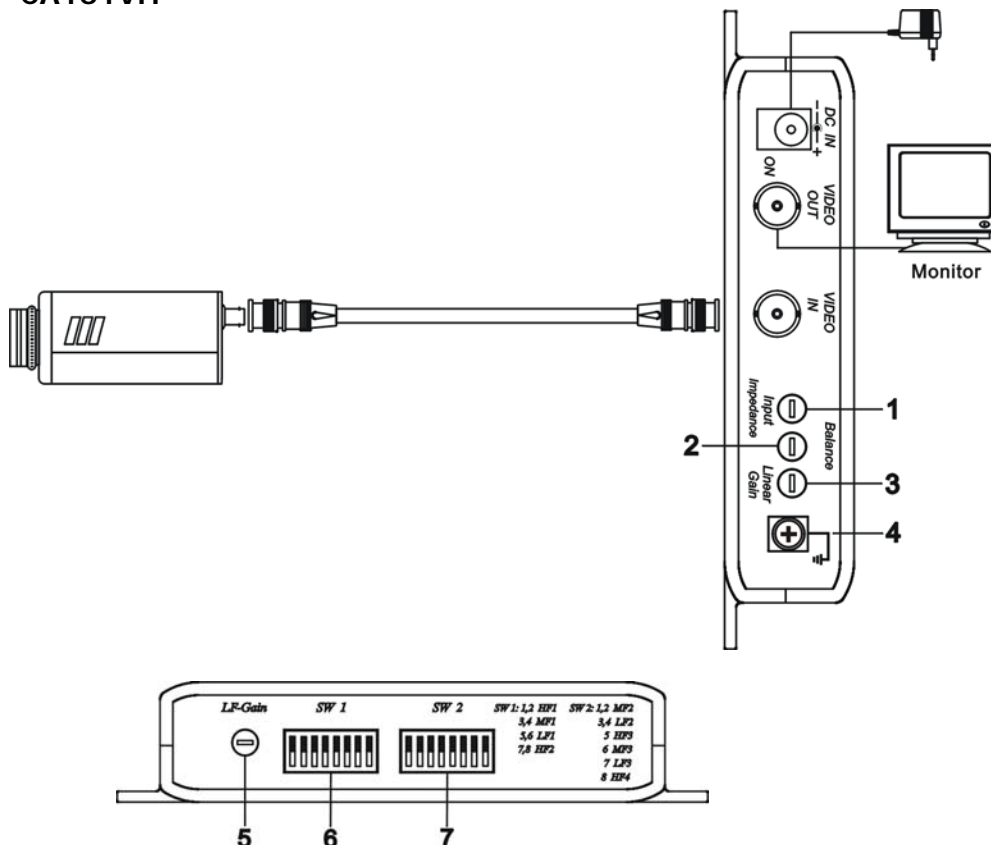


## CA101VH 1 Input to 1 Output High Quality Video Amplifier

- Wide bandwidth, video gain compensation amplification.
- Built in Input Impedance adjustment.
- Built in Balance adjustment.
- Built in Linear Gain adjustment.
- Built in HF/LF/LF Compensation for color gain.
- Built in a highly balanced mode of video transmission for extra interference immunity.
- Built in Surge Protection.
- Red LED: As power on indicator.
- Perfect to maintain good quality picture for long-range transmission with DVR.
- Power supply included.

## View of Installation:

- CA101VH



## CA101VH Trimmer Function:

CA101VH have numerous trimmers as follows, you could adjust them upon different range transmission for best picture quality.

1. **Input Impedance:** To adjust the impedance matching between CA101VH and cable, to transmit long-range video signal without any video loss.
2. **Balance:** Adjust the balance of video signal upon long-range transmission to immunity noise for cleaner picture.
3. **Linear Gain:** Adjust the Linear Gain for appropriate output video signal upon different range transmission.
4. **Ground: Ground to the Earth.**
5. **LF GAIN:** Adjust the LF Gain for color contrast.
6. **SW1:** Adjust the Dip Switch 1 – 8 upon different range, for the best picture quality on color brightness & contrast.
7. **SW2:** Adjust the Dip Switch 1– 8 upon different range, for the best picture quality on color brightness & contrast.

## CA101VH Installation:

1. Make sure the all Dip Switch SW1, SW2 (6. 7) at down position.
2. Adjust Liner Gain trimmer – 3 for stable video signal.
3. Then switch SW1, SW2 (6.7) to up position until good picture quality on color brightness & contrast. Please refer to the following recommended chart on DIP-switch for different range.
4. At last, to adjust other trimmers slightly (1,2,5) for best quality picture.
5. Make sure ground to the earth (4), to protect CA101VH and other monitoring equipment.

Distance (M)	SW1 (1-8), SW2 ( 1-8)
0 – 300	x
300 – 600	SW1(1,2) to SW1(1,2,3) up
600 – 900	SW1(1,2,3) to SW1(1,2,3,4,5,) up
900 – 1200	SW1(1,2,3,4,5,6) to SW(1,2,3,4,5,6,7,8)+SW2(1) up
1200- 1500	SW1(1,2,3,4,5,6,7,8)+SW2(1) to SW1(1,2,3,4,5,6,7,8)+SW2(1,2,3,4,5) up

## Troubleshooting:

All transmission distances mentioned above are without connecting image processor (e.g. Quad, Multiplexer, DVR), the transmission range would be reducin100-200meters upon different camera, cable,DVR...ect.

1. When finish the installation, but no video signal, please checks Power LED and power source.
2. Video signal is not normal; please check “+” and “-” of cable.

## Specifications

ITEM	CA101VH
Video input	0.12-2 Vpp
Input impedance	45 - 175 Ohms
Video output	1 Vpp, 75 Ohms
Freq. response	50 Hz - 5 MHz(-3 dB)
Disturbance reduction	> 70 dB, 50Hz
Gain adjustment	+6 dB...+60 dB at 5 MHz
Noise	-50 dB at+40 dB gain adj. -47 dB at+60 dB gain adj.
Power Consumption	DC12V, 150mA (max)
Input protection	Surge arrester
Indicators	LED(Red)-power on
Material	ABS
Dimensions W x H x D mm	138x77x28