



# RE-AV1 USER MANUAL

## What have you bought

You have purchased a Video signal amplifier that allows you to extend the wiring of CCTV cameras, regenerating the signal

video that it is attenuated from the passage through the cable.



## Product Composition

- ▶ Video Distribution Amplifier suitable for rack mounting
- ▶ Network cable 230V

## When it is useful to use the video amplifier

To carry the composite video signal generated by a closed-circuit camera, or more generally from any video device it is possible to use an electrical cable if the distance between any source and video monitor is short (less than 10 meters). However, if the cable length is greater than



you have to use a coaxial cable 75 Ohm, like the kind that allows RG59 greater lengths containing the attenuation. With a good coaxial cable can carry the video signal for 2/300 meters depending on cable quality and

attenuation that you are willing to accept.

They are commercially particular cables, such as the type RG11 that allow greater distances, but in any case it will always come to a point where the attenuation introduced by the cable will be such as to render the signal unusable. If you wish to extend this connection, it may be useful to install an amplifier at this point as the RE-AV1 model.

## Wiring and installation

On the back of the device contains two BNC connectors. You must connect the cable coming from the camera to the VIDEO IN and the outgoing cable to the monitor to the VIDEO OUT connector.

The amplifier will boost the input signal deteriorated by the path along the cable and will output a similar to the original amplitude signal to effectively take a new stretch of cable.

Obviously the amplification of a poor signal also introduces a bit of noise in the signal and for this reason it is not possible to connect more than one amplifier on the same line.

The amplifier is connected to the 230V network with the attached cable.

## Controls and adjustments

On the front of the device there are three controls:

- ▶ The power button
- ▶ The GAIN control for controlling the overall gain
- ▶ The HF GAIN control for the control of only the high-frequency gain



The RE-AV1 amplifier has a maximum capacity of 13dB amplification that can be adjusted according to the need. This operation is performed with the GAIN knob.

It's also available only for the high-frequency gain control which are the ones that suffer the most due to the cable attenuation. Acting on this command it is possible to amplify up to 18 dB the sun frequency included in the band between 10 Hz and 4.5 MHz.

## Main technical data

Device Type	Composite Video Amplifier
video Inputs	1 (BNC connector)
video Outputs	1 (BNC connector)
Input video signal	1 Vp-p 75 Ohms
Video output signal	from 0.4 to 2 Vp-p 75 Ohms
Maximum video gain	13 dB (18 dB at high frequencies from 10 to 4500 Hz)
front-controlled	ON / OFF -Guadagno video - HF Gain
rear connections	1 Video Input 1 BNC video output BNC Fuse Protection
Supply	from 117V to 220V AC 50/60 Hz
Absorption	1,82 W
Operating temperature	- 5 ° ... + 60 °
Container	Metallic
External dimensions	218x44x200 mm.
Rack Mounting	Yes
Weight	1.35 Kg.

## More information

Useful information on the video signal transport and on signal attenuation phenomena are available on site [www.dseitalia.it](http://www.dseitalia.it) in the tutorials section.