

MARENIUS

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professional ducts



ISOVID video isolation amp's

The ISOVID range includes a number of Video Isolation Amplifiers for transmission of Video signals over distances up to hundreds of meters.

Due to the high sensitivity to hum and noise through ground loops the video signal often has to be isolated from ground at one end of the transmission.

The ISOVID units perform this isolation by utilizing high-speed analog optical couplers driven by specially designed circuitry. There are three models in the ISOVID range:

ISOVID-2X

This is a two-channel Video Isolation Amplifier.

Both inputs share a common ground. They are isolated from the outputs. The outputs also share a common ground. This version is specially suited for distribution of Y/C signals.

There are internal gain control and equalizing potentiometers for each channel.

ISOVID-2D

This is also a two-channel Video Isolation

Amplifier.

Input of the first channel and the second channels output share a common ground.

Input of the second channel and the first channels output share a common ground.

This version is specially suited for two-way communication.

There are internal gain control and equalizing potentiometers for each channel.

ISOVID-A/V

This is a combined Video and Audio Isolation Amplifier.

All sockets are isolated from each other.

The video channel has an internal gain control potentiometer.

A LF transformer isolates the audio channel.

The ISOVID units are housed in a plastic box with rubber feet.

TECHNICAL DATA

Video channel bandwidth	> 8 MHz -3 dB
Signal-to-Noise ratio	typ. > 60 dB
Nominal video level in/out	1 V p-p into 75 ohms
Isolation	> 500 V rms
Sockets	BNC
Box size, approx.	(W x H x D) 130 x 130 x 40 mm.
Power supply	220 – 240 V AC @ 50 – 60 Hz, 5 VA
Weight	500 grams

For ISOVID-A/V:

Audio level in/out	up to +12 dBu (approx. 3,2 V rms)
Impedances	600 ohms to 10 K ohms, equal in/out
Frequency range	20 Hz – 20 KHz -3 dB
Audio Isolation	> 2000 V rms
Sockets	video BNC, audio RCA



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User Instructions

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ISOVID-2X ISOVID-2D ISOVID-A/V

Power supply

All units delivered with a European mains plug are set for 230 V AC supply.
All units delivered with a US mains plug are set for 115 V AC supply.
The units have no power switches. They are intended for continuous use.
Activity is indicated by a couple of green LED's on the front panel.
The units require a few minutes after power-on for stabilizing gain and amplitude.

Connectors

Video inputs and outputs are all through BNC sockets.
Audio input/output are through RCA sockets (ISOVID-A/V only).

Adjustments

All adjustments are internal.
Do not try to adjust GAIN or EQ before the unit has been stabilized for a few minutes after power-on.
Make sure the mains lead is disconnected from the mains outlet before attempting to open the unit!
Open the unit by removing the two screws in the bottom and take off the upper half of the plastic case.
There are labelled trimmers for GAIN (all versions) and EQ (ISOVID-2X and ISOVID-2D only).
Be careful when adjusting these trimmers while the unit is connected to the mains outlet.