

You are never alone on the water



::: GLOMEX AIRWAVES :::

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## EXTERIOR TV AMPLIFIER

Several recurring questions that we got from our customers were about the use and the differences among the wide range of Glomex TV's amplifiers. This newsletter focuses on their use and their functions. The TV's amplifiers adapt the signal's level received by the antenna on TV or digital receiver.

Generally, an amplifier is a device that uses a small amount of energy to control a larger amount of energy. The relationship between the input and the adapted output of an amplifier — usually is expressed as a function of the input frequency — is called the transfer function of the amplifier, and the magnitude of the transfer function determined the gain. The gain is the ratio of output power to input power, and is usually measured in decibels dBuV. More specifically, a generic amplifier (linear) has an entry where the signal enters to amplify and in exit from where the amplified signal goes out, that is equal to turned "n" of the original signal. A fundamental characteristic of the amplifiers is to be active components, that means the energy used for amplifying the signals at the exit is originated from a different source at the entry. The gain, in electronics terms, points out the ability of the circuit to increase the wideness or the power of a signal. In other terms it is the relationship among tensions or entry / exit current.

The two factors, Gain and Power are not directly in relationship, there are amplifiers with low gain but with high power or the other way around. The gain value of the TV system is selected according, to the signal level to treat. If the signal is low we will choose to have high gain, if it is sufficiently strong, we could decide to fix it lower. The amplification level is in relationship to the characteristics of the connected device at the entry and to the intensity of the received signal.

An exclusive characteristic of some GLOMEX' amplifiers is the presence of the BYPASS. The BYPASS allows to exclude the amplifier or the amplifiers when the electromagnetic energy that reaches our antenna saturates the TV system making the TV vision impossible. Using the BYPASS instead, the signal goes straight from the antenna to the TV.

Glomex has a wide range of TV amplifier to satisfy all the needs of its customers.



## 50023/98EC AMPLIFIER

### KEY POINTS

- Supplied with following items: V9112/EC e V9125/00
- It is the basic style of the whole range.
- Potentiometer: to fix the gain
- 1 input: from the antenna.
- 1 output: to the TV or to the 2 way splitter.
- Frequency range: 40-890 MHz, FM (88-108MHz)
- Power supply: 12/24 V d.c.
- Power consumption: <20mA
- Noise factor: 2.2 dB
- Gain average: 27.5 dB
- Amplifier measurement with the template included: The amplifier is supplied with 2 wall mount template to be installed to the bulkhead. Wall Mount Template: 80 mm x 120 mm(h). The template is to be installed on the wall: 850mm x 120 mm(h) and 40 mm deep.

**Airwaves: the way to be closer to our customers.**



Reading the issue of IBI of February - March, I've been particularly struck from the data emerged by the report on the Italian Nautical industry. It emerges a charming synthesis of the Italian leisure marine market. The numbers show how much the nautical culture is rooted in our country. The presence of the Italian nautical brands in the world is quiet remarkable. Important data was published by IBI, in which " Italy is a very large boating consumer market, probably ranking fourth behind , United States, France and United Kingdom". In general "the market is remarkably healthy, despite a less idyllic macro-economic picture over the past two years". The Italian market "in terms of leisure boat building industry, is now certainly ranked as the world number two behind the United States". This great success is the result to the harmonization of two fundamental factors, great performance and more exclusive technology; factors that Glomex has been focused on since its birth.

Regards

Piero Baldassarri

## 50023/98 AMPLIFIER

### KEY POINTS

- Supplied with following item: V9112/00
- Potentiometer: to fix the gain
- 2 input: one from the antenna and the other one from the dock
- 1 output: TV to the 2 way splitter.
- BY-PASS: It makes possible to obtain optimal reception signal management under any condition. This exclusive bypass solution is not only unique but is the only solution available today for the problem of receiver saturation by a too strong signal, a situation that makes TV viewing impossible. In fact, this problem of overly strong signals is encountered in proximity to TV repeaters or excessive amplification sources. Another characteristic of the bypass is to dampen interference from onboard appliances or from inferior quality power sources: these types of interference normally affect the video portion of digital terrestrial signals creating a disturbance that can go from picture haze to total blackout.
- High output level to the TV system or to the way splitter (max 4)
- Frequency range:40-890 MHz, FM (88-108MHz)
- Gain average: 27.5 dB
- Power supply: 12/24 V d.c.
- Noise factor: 2.1dB
- Amplifier measurement with the template included: The amplifier is supplied with 2 wall mount template to be installed to the bulkhead. Wall Mount Template : 80 mm x 120 mm(h). The template is to be installed on the wall: 850mm x 120 mm(h) and 40 mm deep.

## 50023/98SR12 - A/B SWITCH AMPLIFIER

### KEY POINTS

- Supplied with following items: V9112/AB e V9150/00
- Potentiometer: to fix the gain
- 2 inputs: one from the antenna and the other one from the dock (A/B switch)
- 1 output: TV: or to the 2 way splitter (max 4)
- Frequency range:40-108 MHz / 170-890 MHz
- Gain average: 27.5 dB
- Power supply: 12 V d.c.
- Noise factor: 2.1 dB
- A/B SWITCH: when the knob is fixed to the "A" input antenna, the amplifier is on. In "B" means the input is from the dock or from another source and the amplifier is off.
- Amplifier measurement with the template included: The amplifier is supplied with 2 wall mount template to be installed to the bulkhead. Wall Mount Template 80 mm x 120 mm(h). The template is to be installed on the wall: 850mm x 120 mm(h) and 40 mm deep.

## 50030 AMPLIFIER

### KEY POINTS

- Supplied with directional TV antenna Polaris V9130. It must be used exclusively with the V9130 antenna.
- It allows moving the antenna through the remote control.
- Potentiometer: to mix the gain.
- 2 input: from the antenna or from the dock.
- 1 output: TV or to the 2 way splitter (max 4).
- 1 input to get the infrared signal.
- BY-PASS, it makes possible to obtain optimal reception signal management under any condition. This exclusive bypass solution is not only unique but is the only solution available today for the problem of receiver saturation by a too strong signal, a situation that makes TV viewing impossible. In fact, this problem of overly strong signals is encountered in proximity to TV repeaters or excessive amplification sources. Another characteristic of the bypass is to dampen interference from onboard appliances or from inferior quality power sources: these types of interference normally affect the video portion of digital terrestrial signals creating a disturbance that can go from picture haze to total blackout.
- High output level to the TV system or to the way splitter (max 4)
- Frequency range: 40-890 MHz , FM (88-108) MHz
- Gain average: 27.5 dB
- Power supply: 12 V d.c.
- Noise factor: 2.1 dB
- Amplifier measurement with the template included: The amplifier is supplied with 2 wall mount template to be installed to the bulkhead. Wall Mount Template: 80 mm x 120 mm(h). The template is to be installed on the wall: 850mm x 120 mm(h) and 40 mm deep.

## 50022/00 6 OUTLET LINE SPLITTER /



### TEAM



**Raffaele Fabbri**  
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Hello to everyone, I'm the Purchasing and Quality Manager. Email me to the above email address, I'll be delighted to answer to your questions.

Or please call me on the following number:



Have a good day  
Raffaele Fabbri



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in marine  
antennas**

[www.glomex.it](http://www.glomex.it)

**GLOMEX FOCUS ON**

## AMPLIFIER

### KEY POINTS



- Supplied with the following item:  
**V9150/00 COMMUNITY**
- Potentiometer: to fix the gain
- 1 input: from the antenna
- 6 output: to the TV (it is both an amplifier and a splitter)
- Frequency range: 40-890 MHz , FM (88-108) MHz
  - Gain average: 8 dB
- Supplied power: 12 / 24 V d.c.
  - Noise factor: 2.1dB
- Measurement: MM 110 x 550 h and 40 mm (deep).



Glomex recommends to use the F male-female connector . 90 degrees in nickel brass, particularly suitable to install these amplifiers because it allows the cables to go out with an angle of 90 degrees.

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