



High Performance HF Receiving array Systems And Components

Hi-Z Antennas™ 75 Ohm Preamp V2



Stock Number HIZ-PREAMP-75-V2

The Hi-Z Antennas™ 75Ω Preamp V2 is used on our Triangular (3 element), 4, 8 element array systems. These are used to amplify the output signal level from the phase controller to the receiver. This 75 ohm cable amplifier was designed to be used as a system amplifier for 160 and 80 meter receiving antennas.

The amplifiers primary purpose is to provide a proper 75 ohm termination for typical antenna array controller/combiners. In typical operation this amplifier would be connected to the output of an array controller providing 17dB. of voltage amplification, and a Nominal input impedance of 75ohms when the output port is also terminated in 75 ohms.

- Operates from 13.8Volts DC (11 to 14) at .06 amps
- Drives 75 ohm coaxial cables at approximately +20dBm *
- The front view size is 2 7/8 X 2 1/4 inches Depth is 2 1/8 inches including input and output connectors.
- Input and output connectors are quality RG-6 connectors.
- +Power input is through stainless screw and nut combination.
- Ground return is through the RG-6 cabling.
- When power is removed the amplifier bypasses itself with an internal relay.

To activate this amp you can Connect a wire from any close 13.8 VDC or to the phase controller +13.8VDC and then to the power terminal on the 75Ω preamp. The ground is carried over the shield of the RG6 coax jumper.

* This amplifier is capable of a saturated power output level of approximately + 20 dBm or 100 Milliwatts. It would be prudent to check any receiver or other equipment to make sure this power level will not cause damage when connected. It may be necessary to use some kind of limiting device at the receiver's input.

These amplifiers would normally be installed by connecting the amp through a short RG-6 jumper direct to the array or antenna output. The amp output can then be sent over any 75 ohm cable to the shack or to an impedance matching 75 to 50 ohm transformer for 50 ohm receivers.

THANK YOU for selecting Hi-Z Antennas™.

Hi-Z Service Department

We do maintain a service area where we try to provide very rapid turn around of repairs. Typically we can return repaired equipment within a few business days. Our GOAL is to keep your array uptime maximized. All repairs are returned as designed and thoroughly tested to meet our advanced internal specifications.

More information is available at
www.hizantennas.com or e-mail contact@hizantennas.com

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