



## MLA-30 Loop Antenna user manual



### **Safety warning!!**

Pay attention to safety when installing antenna. In order to prevent falling, tool falling, electric shock and other hazards.

1. Keep the antenna away from the wires! If your antenna or ladder touches the power cord, you may get electrocuted.
2. Pay attention to the following safety precautions when working at height. Pay attention to safety and prevent falling when installing roof platform
3. Make sure your antenna is in a safe place, high enough to not affect the safety of others. Make sure that your antenna is firmly fixed and will not fall and cause harm to others.
4. Pay attention to lightning protection! Pay attention to lightning protection and install reliable lightning rod in high incidence area.



### **Introduction**

Mla-30 loop antenna is a very popular broadband antenna. It is a receiving antenna for short wave listeners (SWL) and amateur radio enthusiasts (HAM) to receive medium wave and short wave in the limited living environment of the city.

Frequency coverage: 100 kHz to 30 MHz. Excellent directionality can help you reduce noise, improve signal-to-noise ratio, and can mine weak signals submerged by noise when receiving by conventional antenna. Mla-30 ring antenna is easy to set up, and can be easily installed on the balcony, roof, etc. it is small and low-key installation, and there is no need to worry about the opposition of neighbors and property.

Another advantage of the mla-30 loop antenna is that it is directional. By rotating the antenna, the dummy point of the antenna is aligned with the interference signal, which can minimize the specific near-field interference.

## Preparing

The antenna is fully assembled and can be installed directly. Please select the installation location away from any other transmitting antenna. The energy of the transmitting antenna will damage the internal signal amplifier of the antenna.

The antenna can be used indoors if necessary. Rotate and adjust the antenna by hand. However, there are often more noise sources in the indoor location, and the indoor radio signal strength will become worse due to the shielding of reinforced concrete, which may lead to the signal deterioration.

If you decide to use an antenna indoors, keep that in mind.

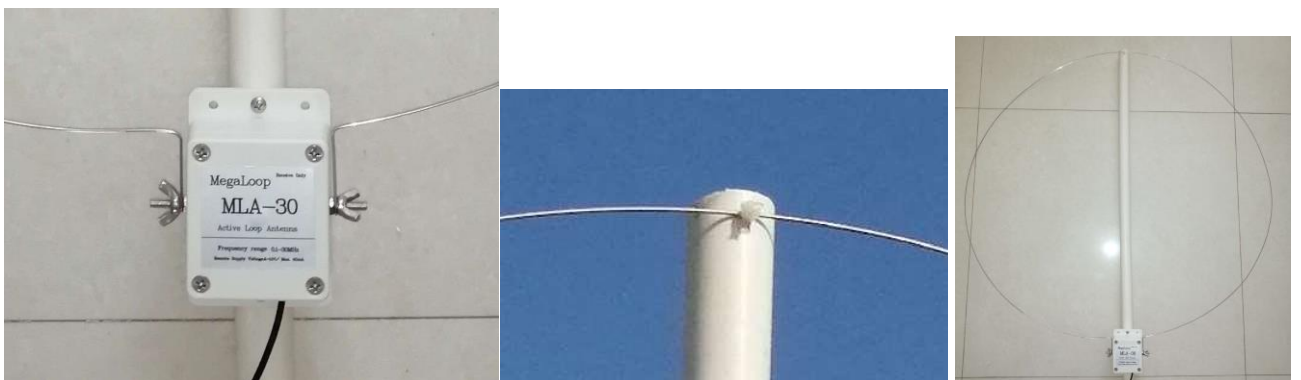
## Assembling

It is necessary to prepare a PVC sheath for support, of any diameter and 65cm length. It needs to be of certain strength, and it should be strong enough to support the mla-30 ring antenna.

You can also use the existing plastic pole, wooden pole, and pay attention not to use metal pole.

Fix the mla-30 ring antenna to the support rod with two screws, arrange the stainless steel vibrator into a circle, and then fix it on the terminal of screw, and fix the top end to the top of the support rod with a tie.

Then fix the support rod to the roof or balcony outside the security net. Try to fix it in an open place far away from the interference source. It should be fixed firmly to prevent falling.





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### Packing List:

Antenna amplifier with 10 m feeder

x1Stainless steel vibrator x1

Bias power supply x1

USB cable 0.8m x1

60cm SMA jumper x1

Stainless steel fixing screw x2

The MLA-30+ antenna is available in Europe at Passion Radio Shop: <https://www.passion-radio.com/hf/megaloop-968.html>

**The installation method of antenna indoor or outdoor is basically the same.**

The direction of the antenna is important, so turning it by hand or with a spinner will improve the efficiency of receiving remote stations.

The two dummy points on the antenna can point in a specific direction. This means that the noise source is placed in the direction of the dummy point. There is no need to know the direction of the antenna. Just rotate the antenna until you hear the noise disappear or decrease significantly.

You may encounter some signals that cannot be attenuated much, because the signals they send may be reflecting from multiple directions to your receiving location.

**Note:** Never connect the mla-30 loop antenna to the transmitter as it will cause permanent damage to the preamplifier. This antenna is for receiving only.

