

## **JNCRADIO MC-750 PORTABLE HF GP ANTENNA**

<https://chelegance.com/products/jncradio-mc-750-100-watts-portable-hf-gp-antenna/>



### **1-1. DESCRIPTION & SPECIFICATION**

MC-750 is a 7-50MHz, 100-WATT GP antenna designed for portable applications.

For Frequencies above 14MHz it is used as a full size (1/4 wavelength) antenna. And a coil is used for 7MHz.

All the components are packed with a 65CMX9CMX7CM carry bag which makes it very easy to be carried by operators for field operation.

|                 |               |
|-----------------|---------------|
| FREQUENCY RANGE | 7MHz-50MHz    |
| POWER           | 100 WATTS PEP |
| IMPEDANCE       | 50 OHMS       |
| COUNTERPOISE    | 4 X 3.5M      |
| WEIGHT(KG)      | 1.8           |
| DIMENSION(CM)   | 65X9X7        |

*//WARNING: Do not power the antenna more than its PEP power ratings.*

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## 1-2. PART LIST

- 1 X GROUND ROD(ANT BASE ATTACHED)
- 1 X 7MHZ COIL
- 1 X 50CM ANT ARM
- 1 X 5.6M WHIP
- 4 X COUNTERPOISE WIRES(radials)
- 1 X WIRE COLLECTOR BOARD
- 1 X CARRY BAG

## 1-3. INSTALLATION GUIDE

- Connect the 50CM antenna arm to the ground rod(antenna based attached)
- Insert the ground rod to the ground, the deeper the better.
- Insert the 4 counterpoise wires into the 4 \*holes\* to the antenna base, spread the counterpoises to different angles



- If you want to use 7MHz band, connect the 7MHz coil to the antenna arm. If not, skip this step.
- Connect the 5.6M whip to the antenna arm(top of the 7MHz coil if you want to operate on 7MHz)

There are reference marking points printed on the whip antenna. Adjust the length of the whip to meet your desired frequency according to the reference marking points. *(All sections above the mark needs to be fully extended and all sections fully collapsed.. 7MHz band need to have the supplied coil used as mentioned above)*



- Although there are reference points, you might still need to do fine adjustments to the length of the whip antenna until you get a sensible VSWR readings(From an in/external VSWR meter, VNA or antenna analyzer).
- Notice that 10MHz and 50MHz are usable with MC-750 however they do not have markings on the whip for some reason.
  - If you want to use 10MHz, apply the 7MHz coil, fully extend the last four section + 15cm of the 5<sup>th</sup> from the telescoping whip(the rest sections below collapsed). Check below photo as a reference.



- If you want to use 50MHz, just fully extend the last section of the whip(the rest sections below collapsed) without using the 7MHz coil.



**\*Please note:**

1. Regarding the product quality, each section of every whip is carefully printed with measurements and undergoes stretching checks. Very low probability of quality issues. Therefore, the possibility of a quality issue is very low. Additionally, we conduct a final inspection before shipment to ensure everything is in proper condition.

**2. The correct usage instructions and precautions for the whip:**

- The whips should first be attached to the antenna before extending them. After installing the antenna, try extending the whips again.
- When extending the whip, start extending the thinnest section first, and gradually move on to the thicker sections, finishing with the thickest section.

- When collapsing the whip, start with the thickest section, then move to the thinner sections, and finally collapse the thinnest section.
- Note: The whip is the most brittle part of the entire antenna system and needs to be properly protected.

#### **1-4. RECOMMENDATIONS ON ACCESSORIES**

- It's recommended to have antenna analyzer or VNA to be able to read the parameters of the antenna set up.
- Of course it will be great if you have an antenna tuner

**Reach out to us if you have any problems: [support@chelegance.com](mailto:support@chelegance.com)**

**HAVE FUN WITH MC-750, 73!**