

## **JNCRADIO M-104 SUPER PORTABLE 4-BAND SHORTWAVE ANTENNA KIT, MOBILE, POTA/SOTA**

<https://chelegance.com/products/m-104-super-portable-4-band-shortwave-antenna-kit-for-sota-pota/>



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

This kit is a super portable antenna design, for typical outdoor applications such as SOTA, POTA or automobile operations.

**SUITABLE FOR IN-VEHICLE OPERATION:** The antenna provides reliable performance in in-vehicle environments and is designed with adaptability in mind, allowing it to be easily mounted to a vehicle using a variety of options, such as roof-mounted, hood-mounted, or trunk-mounted, providing flexibility for different types and configurations of vehicles.

**COMPREHENSIVE FREQUENCY COVERAGE:** The antenna kit supports four bands in the shortwave spectrum and has a 6-SIDED BOLT to support U/V RANGE, which can be used in different frequency bands to ensure compatibility with various communication systems.

All the components are packed with a 180\*110\*30mm plastic box which makes it very easy to be carried by operators for field operation.

FREQUENCY RANGE	7/14/21/28/144/435 MHz
POWER	50W PEP
CONNECTOR TYPE	UHF-J
LENGTH(EXTENDED)	1.4 METER
DIMENSION	180*110*30MM
WEIGHT	0.32g

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

## 1-2. PART LIST

- 1 X WHIP ANTENNA
- 1 X ANTENNA BASE
- 1 X 7 MHZ COIL
- 1 X 14 MHZ COIL
- 1 X 21 MHZ COIL
- 1 X 28 MHZ COIL
- **1 X 6-SIDED BOLT(FOR U/V RANGE) (AVAILABLE 2023.01 OR LATER BATCH)**
- 1 X 4-16 ADAPTOR(FOR RADIALS/GROUNDING)
- 1 X 4-10 ADAPTOR(FOR RADIALS/GROUNDING)
- 1 X CARRYING PLASTIC BOX



### 1-3. INSTALLATION GUIDE

- Choose a coil according to the band you will be operate on
- Connect the coil to the base
- Extend the whip antenna to its maximum length and hook it up on top of the coil
- [not a must but strongly recommended] Install radials or copper strap(not included in the kit) to the 4-16/4-10 adaptor, put it between the antenna base and the mount position, and the other end of the strap(if you are using it in the car) connect to the ground point of the car.



- Adjust the length of the whip antenna as well as radials until you get a sensible VSWR readings(From an in/external VSWR meter, VNA or antenna analyzer).

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

- In order to improve the efficiency of this GP antenna, having radials are very important and especially for M-104, since it sacrifices the efficiency to meet the portable size.
- It's recommended to have antenna analyzer or VNA to be able to read the parameters of the antenna set up.

### **OPTIONAL ACCESSORIES**

- [SV4401A VNA](#)
- [JNCRADIO VNA 3G](#)
- 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 M-104, 73!**