

KC4 SHORTWAVE 4-BAND VERTICAL ANTENNA, **40M/20M/15M/10M**

<https://chelegance.com/products/cntou-kc4-shortwave-4-band-vertical-antenna/>



1-1. DESCRIPTION & SPECIFICATION

The KC4 is a 4-band vertical antenna made of aluminum alloy. It covers 40/20/15/10 meters. The user trims the antenna to the part of the band as needed.

Automatic band switching: The KC4 has a single coax cable feed however each band is individually tuned with a low VSWR across the band. Through fine-tuning, the best (rock-bottom) SWR can be achieved on the user's choice of frequency within the band. The band selection is 100% automatic through the single feed, just switch bands on the radio.

Dimensions	14x14x120cm
Weight	7kg
Maximum power handling	1000 watt PEP (CW500W, RTTY300W)
Antenna impedance	50 Ω
VSWR	<1.5:1
Use frequency band	7/14/21/28MHz (40m/20m/15m/10m)
Bandwidth	40m: 150kHz 20m: 450kHz 15m: 800kHz 10m: 1000kHz
Rated wind speed	35 m/s

1-2. PART LIST

- 1 x Main support (1.3*0.15*0.01ft)



- 10 x Radials (2 Sizes: Long: 3.9ft \ Short: 1.6ft)



- 1 x Antenna body NO:1(Long: 3.9ft)



- 1 x Antenna body NO:2(Long: 3.9ft)



- 1 x Antenna body NO:3(Long: 3.9ft)



- 1 x Antenna body NO:4(Long: 1.1ft)



- 1 x Antenna body NO:5(Long: 3.5ft)



- 1 x Antenna body NO:6(Long: 0.9ft)



- 1 x Antenna body NO:7(Long: 2.4ft)



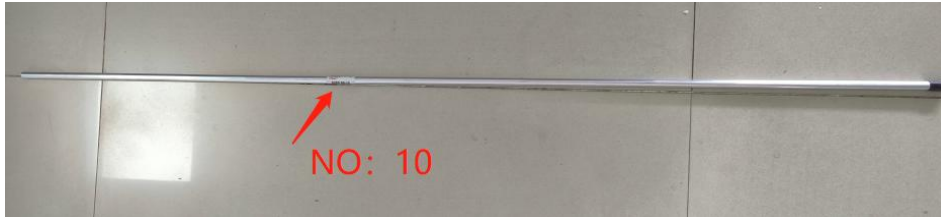
- 1 x Antenna body NO:8(Long: 1 ft)



- 1 x Antenna body NO:9(Long: 3.9ft)



- 1 x Antenna body NO:10(Long: 3.9ft)



- 1 x Matching box



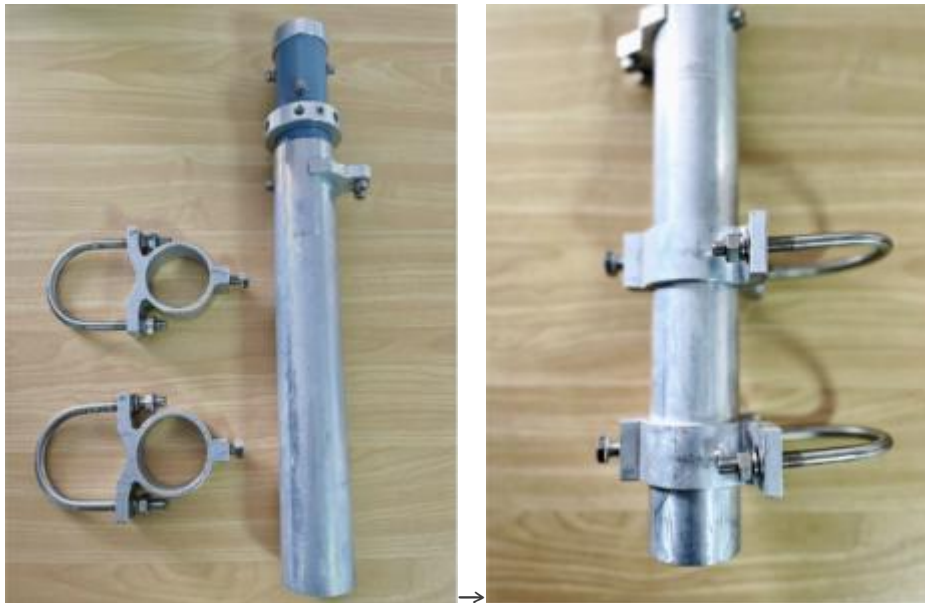
- 2 x U clamp



- 1 x Tools bag



1-3. INSTALLATION GUIDE

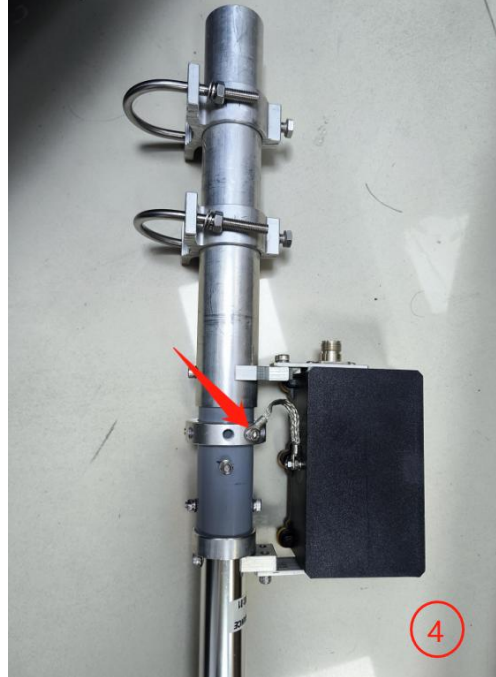


A. Fix the main support with a U-shaped holding clamp and a fixing plate.

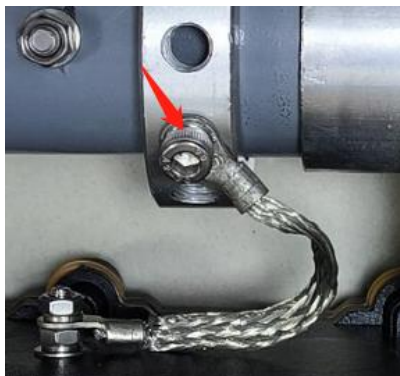


B. Insert the NO.1 antenna body into the main support. And put the two ends of the place for matching box on the same side, and fix it with screws.

(Secure the components with screws and spanners.)



C. Install the matching box. (Red arrow: note that it is screwed to the rod)





D. Insert the NO.2 antenna body inside the NO.1 body and secure it by tightening the screws on the outside. The remaining bodies you can install by following the sequential prompts



E. Put the radials on.



F. Finish

***Note:**

1. The 'reference lengths point' of some antenna bodies refers to the area near the fixed label position. The center frequency used by the user may vary due to different setup environments and heights. Users can make fine adjustments with the help of an antenna analyzer or VNA to achieve the desired frequency range.
2. The recommended installation height is 1.5 meters — this is the height we tested near the label position.
3. The actual wind resistance level depends on the method and the firmness of the installation (mainly depends on the fixed object). And please pay attention to lightning protection

Reach out to us if you have any problems: support@chelegance.com

HAVE FUN WITH KC4, 73!