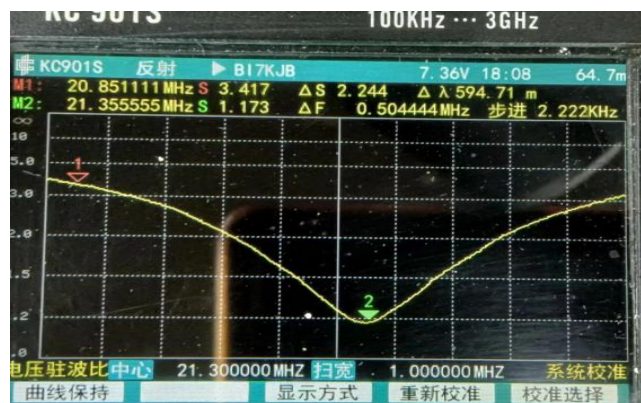


KB2 K730V Manual

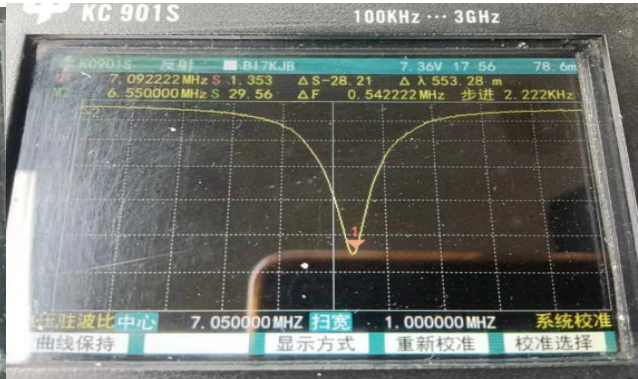
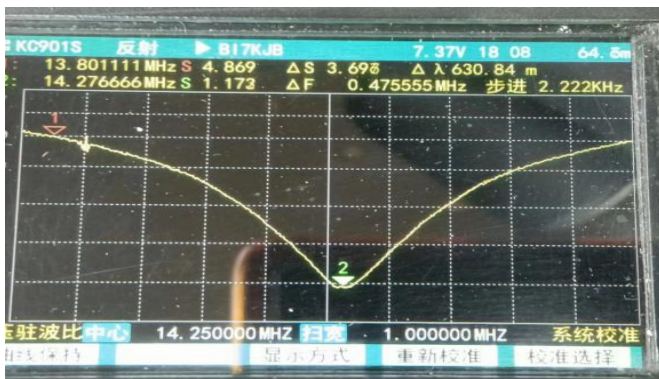
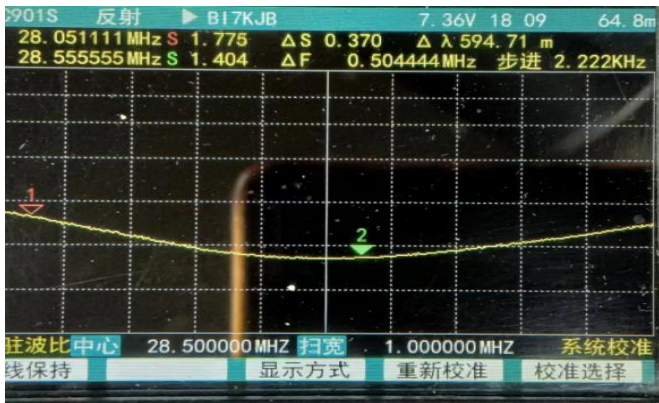


1: Basic Parameter

Frequency	7/14/21/28MHZ
VSWR	1.5: 1
Power Handling	CW500W,SSB1KW
Array length	9.7meters (Single 4.85m)
Rotation Radius	2.05m
Weight	8.5KG
Wind Load	Up to 10-level wind 24.5m /s --28.4m/s 89km/h --102km/h
Mast Diameter	40-50mm (<50mm)



2: VSWR Characteristics Graph



3: Accessories

Item	Specification	Qty
		K730V
NO:01	Main Spine 29mm/1090mm	2
NO:02	Main Spine 26mm/1090mm	2
NO:03	Trap 28,21mhz	2
NO:04	Connecting 26mm/210mm	2
NO:05	Trap 14mhz	2
NO:06	Main Spine 12.8mm/600mm	2
NO:07	Main Spine 10mm/1000mm	2
	B Balun 1:1 (KB2/BC50)	1
	Capacitor Hat 7mhz Capacitor Hat Array	4
	Fixing Bracket Plate	1
	Array Mounting Clamp (Differentiate between front and back) with fixing nuts	4

	U-Bolt for Mast Fixation (including U-plate)	2
	Fixing Clamp 32mm/25mm/16mm/10mm	12
	Installation Tools	1

Note: Actual lengths of antenna components may vary based on shipment.

4: Installation Instructions

The KB2/K730V antenna offers several flexible installation options compared to other dipole antennas. In order to ensure optimal performance of the antenna, it is necessary to have a suitable installation environment. It is advised to keep a distance from steel structures, high-voltage power lines, trees, etc. The minimum recommended installation height and clearance should be at least 5 meters. If the installation height or avoiding steel structures is not feasible, the antenna parameters may need to be adjusted accordingly based on the actual circumstances.

Please ensure proper installation and follow the guidelines provided to achieve the best results.

5: Assembly Instructions

The mounting method for the Balun Array is shown in the diagram below.



Note: When installing the array mounting bracket, pay attention to the differentiation of the plastic insulating components. The plastic components with steps should be placed at the bottom of the array.

Array Assembly:

The array assembly is installed according to the labeled numbers NO:01 to NO:07, with NO:02, NO:03, and NO:07 being the assembly positions. The array clamps are fixed using a dedicated wrench. Install the 40-meter capacitive hat radiator array on both sides of the 14MHz trap (TB), paying attention to the water-permeable hole on the upper part of the 14MHz trap (TB) which should face the ground during installation.

During array installation, ensure that the shrinkage openings of the array face the ground to facilitate waterproofing. NO:01 has left and right distinctions on the main spine, so pay attention to distinguishing between the left and right sides to ensure that the shrinkage openings of the fittings are positioned below.

When installing the Balun and main feed wires, adjust the installation angle and secure them using a Phillips screwdriver. Do not block the water-permeable and breathable holes on the lower back of the Balun.

Adjustment Instructions:

In case there is a difference between the installed antenna data and the required data, follow the adjustment methods below:

For KB2/K730V:

*Adjust the length of main spine NO:01/02 to calibrate the center frequency of the 10-meter (28MHz) band.

*Adjust the distance between TA and TB on main spine NO:04 to calibrate the center frequency of the 20-meter (14MHz) band.

*Adjust the length of main spine NO:07 to calibrate the center frequency of the 40-meter (7MHz) band.

KB2/K730V-2(6M / 50MHZ) Selection instructions

NO:6-01	12.8MM/10,5MM/1000MM	2
NO:6-02	10MM/8MM/700MM	2
Feed connection cable		2
mounting bracket		4

installation instructions

1: The feeding mode is divided into two feeding modes, Balun output direct feeding and induction feeding, it is recommended to use Balun output direct feeding.

2: Use 4 sets of fixed brackets to fix the side of the original K730V trunk (No:01) and keep it in the horizontal direction of the antenna

3: Adjust the length of NO:6-02 to adjust its resonant frequency to ensure the best standing wave ratio



Please note:

Ensure proper soldering and connection of coaxial cables and cable connectors, and securely fasten the Balun. After securing the connectors, perform appropriate waterproofing measures.

It is recommended to have multiple individuals assist with the installation. Take precautions to prevent objects from falling during high-level installations. Installation personnel should wear appropriate safety gear and stay away from high-voltage power lines to ensure their safety.

Install the corresponding lightning protection devices to prevent harm to personnel and equipment from lightning strikes.

2024.01.29