



ANTENNA EXPERTS

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Model # HFM-230

Frequency 2 – 30 MHz.

3 dBi Gain

INSTALLATION MANUAL – HF MULTI-WIRE BROADBAND DIPOLE ANTENNA

NOTICE:

Installation, maintenance or dismounting of the antenna system requires qualified and experienced personnel. Antenna Experts antenna Installation instructions have been prepared and are meant for skilled personnel only.

Antenna Experts disclaims any liability or responsibility as a result of improper or unsafe installation practices.

MATERIALS:

Following materials are used for the fabrication of Antennas and its accessories.

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| 1. Radiating Dipole: | Stainless Steel. |
| 2. Fasteners: | All Marine Grade Stainless Steel. |
| 3. Connector: | Silver Plated Brass body with Gold plated pin. |
| 4. Balun Housing: | NYLON |
| 5. Terminating Resistance Housing: | Fiberglass |
| 6. Insulator: | NYLON. |
| 7. Separator: | uPVC |

PACKING LIST:

<u>Sl. No.</u>	<u>Item/Descriptions</u>	<u>Quantity</u>
1.	HF Broadband Omni-Directional Dipole Antenna.	1 Each.
2.	Installation Instruction.	1 Each.
3.	Test Report.	1 Each.

INSTALLATION INSTRUCTION :

1. Unpack the HF Broad Band Dipole Antennas from the packing box and spread the antenna between both the masts.
2. For horizontal polarization, the two masts having a distance of 30 Meters is recommended.
3. Remove the plastic binder holding the two antenna limbs (radiators) and arrange the antenna radiator so as to remain parallel to ground and to each other.
4. Connect the coaxial antenna feeder cable to the antenna balun.
5. Seal the antenna connector against moisture ingress with a sealing tape.
6. Install the antenna between two masts with the help of Halyard and pulley. (not supplied with the antenna).
7. Alternatively the antenna can also be installed in Inverted “V” configuration by using single mast if restricted space is available at the installation site. But recommends installing the antenna in standard horizontal dipole configuration by using two masts.
8. Connect the Antenna feeder cable to the Transceiver.
9. Make sure that the frequency of the Transmitter / Receiver should be within the frequency band marked on the antenna. **Do not operate the antenna other than the specified frequency band of the antenna.**
10. Take VSWR reading by using through-line RF Power meter. The VSWR should never exceed 1:2.5. Keep the record of VSWR measurements for future reference.
11. Qualified, skilled personnel to verify proper installation and maintenance should inspect the antenna system once a year.