

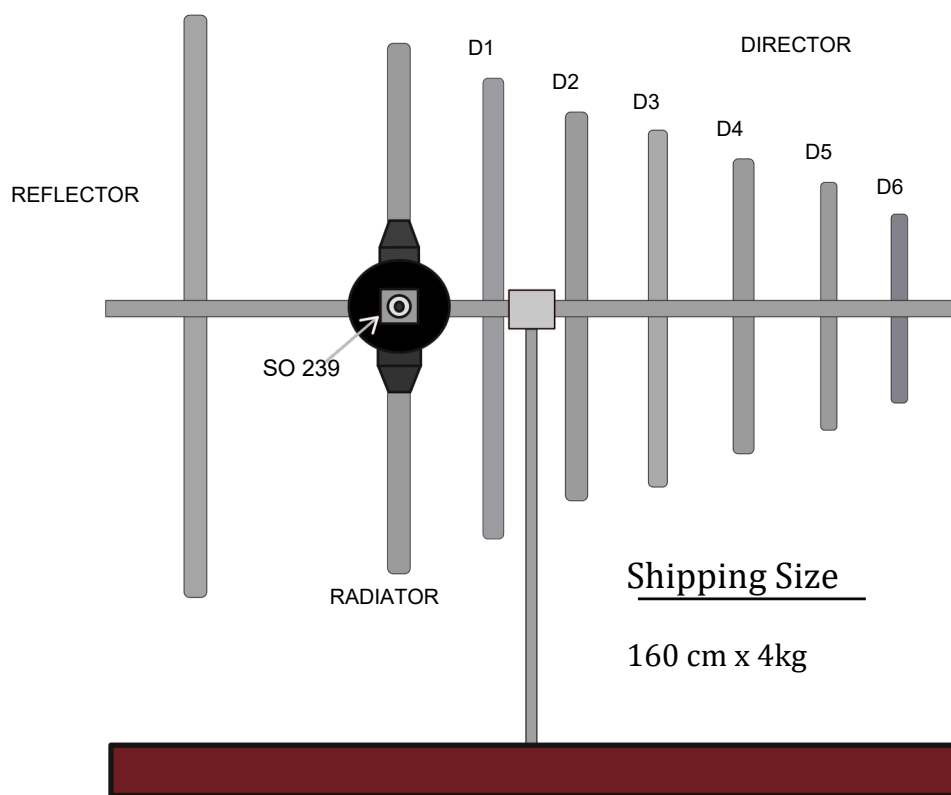


# AE Transcom Private Ltd

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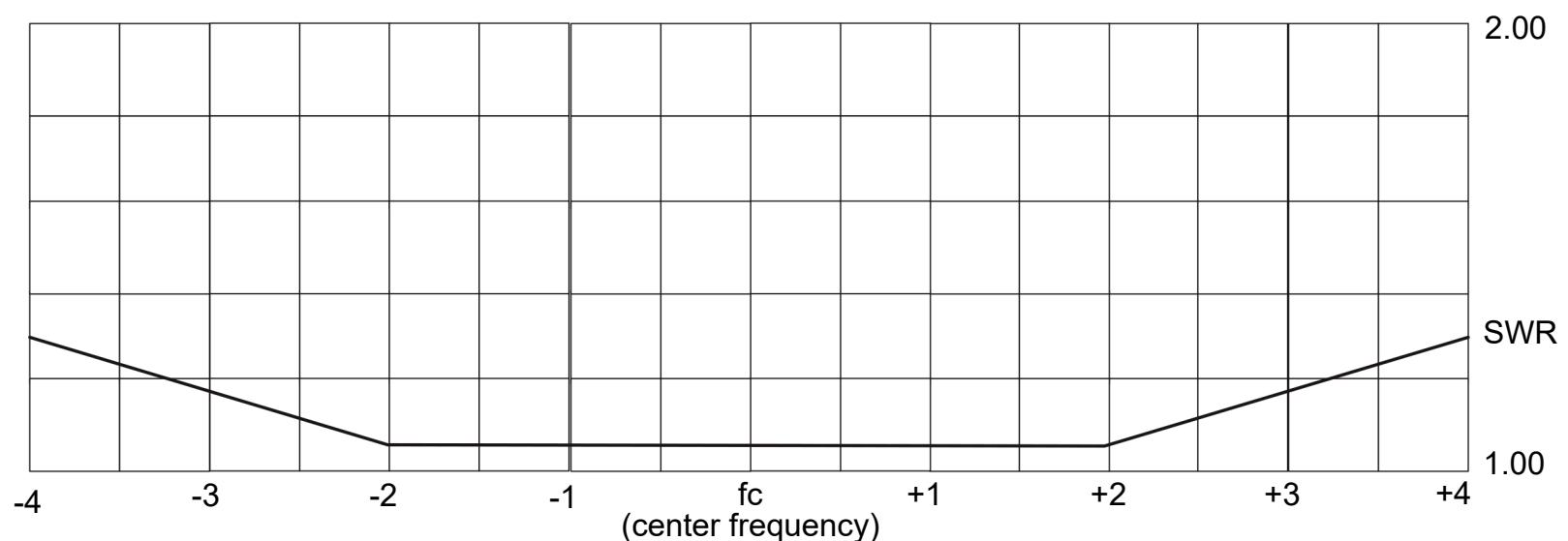
**Brand- Radiocom**

## YAGI ANTENNA

### Specification

1. MODEL: GW 177 VH 100
2. FREQUENCY: VHF : 136-174 MHz  
66-88 MHz  
UHF : 430-520 MHz
3. GAIN: 7.5 dBi
4. INPUT IMPEDENCE: 50 ohms
5. POWER HANDLING CAPACITY: 100 watts (max.)
6. INPUT TERMINATION: SO 239
7. POLARIZATION: Horizontal
8. PROPAGATION: Sky Wave/Line of Sight
9. CONSTRUCTION: Aluminium

Typical Frequency to SWR Chart



### Assembly Procedure

The Antenna consists of a aluminium driver element called the Radiator, a Reflector and 6 nos. Directors. The driver element is a resonant half-wave dipole usually at frequency of transmitter operation.

The Radiator, Reflector and Director D1, D2, D3, D4, D5 and D6 are to be arranged on boom as shown in diagram and also marked

### Tuning

YAGI Antenna are commonly used in control station, Paging and repeater applications for point to point communication. The narrow beamwidth and high front-to-back ratio are effective in reducing interference from other systems.

For point to point communication usually horizontal polarized antennas are required. Hence, Antenna radiator can be directly installed as usual. Radiator perpendicular to ground with live end up is perfectly matched/recommended.

For fixed to mobile usually vertical polarized antenna are needed. For vertical polarization remove ground connections and install accordingly. TO check gain/SWR use RF Power meter preferable make bird/diamond.

**FULLY COMPLIANT WITH MHA SPECIFICATIONS**

- Fully compliant with Ministry of Home Affairs (MHA)
- Letter No. H-18026/1(TS&TD)/2016-CDN, Govt. of India, Directorate of Coordination, Police Wireless, dated 17th January 2018.

**MAKE IN INDIA**

- Classified under Make in India – Class 1 Category

**Note: In case of any variation between brochure specifications and tender specifications, the tender specifications will prevail.**

