Operating Manual Model: DS-150S At opening package and before assembling, please Wide Band Discone Antenna refer to the right figs, For: $25 \sim 1500 \text{MHz}$ and Parts List. Please read through this Operation Manual initially for correct assembling and proper operation. 50MHz Top Ele. (3)Fix Screw Features: ØDS-150S is extremely wide band discone antenna, which allows TX operation at 50MHz Ele. 50, 144, 430, 800, and 1200MHz bands. Fix Screw stainless steel. Light weight and compactly designed discone for easy mounting. Specifications: RX Frequency: 25 to 1500MHz TX Frequency: 50, 144, 430, 800, 1200MHz M-J@ Gain : 5.12 dBi connector Max. Power : 100 W : 50 ohms Impedance OV.SWR : Less than 1.5 (at center of TX-frequency) Weight : 1.78 Kg DS-150S Connector : PL259 female type (10) 0 0 0 0 Transceiver Assembling Works: 1) Please mount Support Pipe onto your Pole, using Mount Bracket Assembly and U-Bolt. The distance from the

1) Please mount Support Pipe onto your Pole, using Mount Bracket Assembly and U-Bolt. The distance from the low-end of the Mount Bracket to the low-end of the Support Pipe is to be 3cm approximately.

2) Coax.cable(W/PL-259 connector) through the Support Pipe and assemble to the Power Feeding Section. Please cover the connector joint part by the Self-Melting Tape, prolonging twice as long, for complete water-proof.

3) Then, mount the Power Feeding Section on the Support Pipe, and assemble it with Hex Bolt and Sp. Washer.

4) Assemble 6 Disc Element(with Caps.) to the Power Feeding Section and lock them with Nuts tightly.

5) Please confirm again the tight-fastening of each screws, bolts and nuts.

6) Finally, assemble 6 Cone Elements(with Caps.) to the Power Feeding Section, and lock them with Nuts firmly.

How to adjust 50MHz TX-Frequency:

Pre-set center frequency is 51.0MHz.

- 1) Connect Transceiver, SWR Meter and DS-150S.
- 2) Unfasten the Screw at 50MHz Top Element. Then, adjust length of the Top Element, watching SWR Meter.

 Lower frequency-longer, and higher-shorter.
- 3) Frequency change per each 1cm is 0.6MHz.
- 4) When much higher frequency is proposed, you can cut off the low-end of the Top Element.

Parts List:

No.	Parts Name	Qty.
1	Power Feeding Section	1 pce.
2	50MHz Top Element	1 pce.
3	50MHz loading Coil	1 pce
4	50MHz Lower Element	1 pce
5	Disc Element W/Nut	6 set
6	Disc Cap	6 pce
7	Cone Element W/Nut	6 set
8	Cone Cap	6 pce
9	Support Pipe	1 pce
10	Fix Bolt & Sp.Washer	1 set
11	Mount Bracket, Nut & Sp.Washer	2 set
12	U-Bolt, Nut & Sp.Washer	2 set
13	Self-Melting Tape	1 pce
14	Hex. Wrench	1 pce
15	Coax.Cable RG-58A/U 20m	1 set

COMET CO.,LTD.

14-8-2 TSUJI, SAITAMA-SHI, SAITAMA, 336-0026 JAPAN TEL:048-839-3131 FAX:048-839-3136 URL: http://www.comet-ant.co.jp