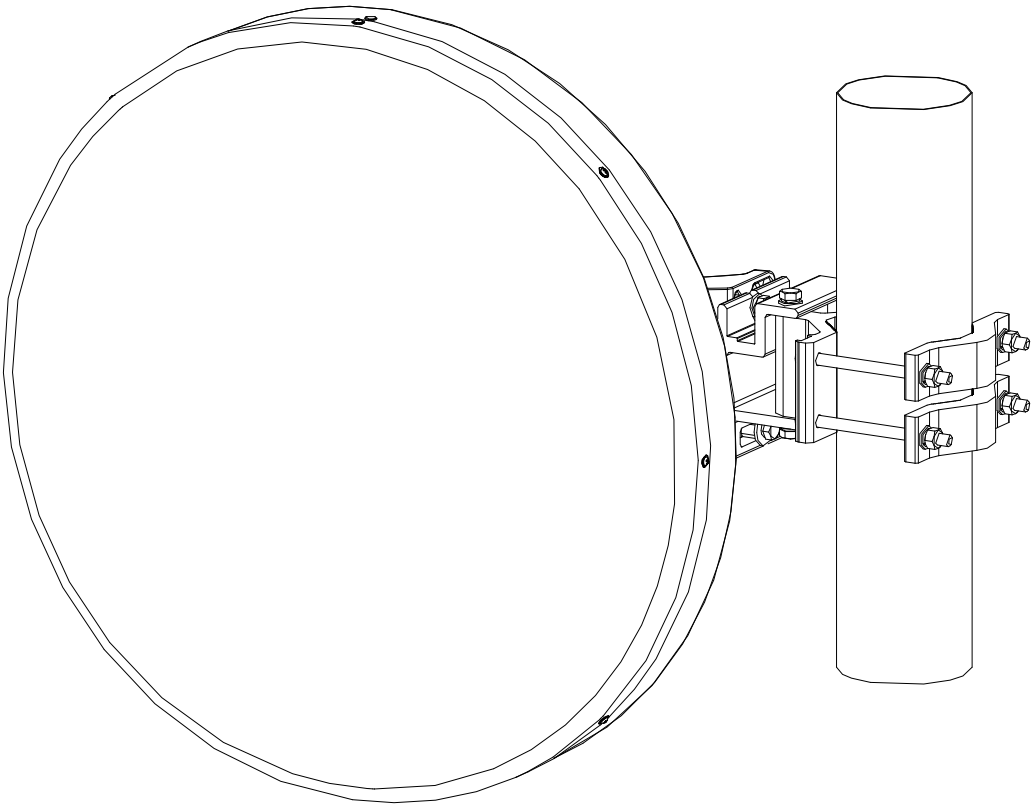
Installation Instructions

For 0.6m Ultra-high Performance Antenna



Remarks: Before Installation, please read the instructions carefully.

- ◆This instruction booklet is for the installation of a 0.6m ultra-high performance microwave antenna.
- ◆Installation, maintenance and removal of the antenna system should be carried out by a qualified, experienced person.
- ◆To guarantee performance, the antenna system should be inspected in line with local practice and at least once a year by a qualified person.

CONTENTS

1. Requirement of Installation

1.1 Mounting Pole

The microwave antenna can be fixed to a Mounting Pole (not supplied) with a diameter between ø50mm and ø114mm.

1.2 Tools Required for Installation

- 16mm Open-end Spanners (*Used for Bolt M10*)
- 3mm L-Spanner (*Used for Screw M4*)
- Torque Spanner (*Recommended*)

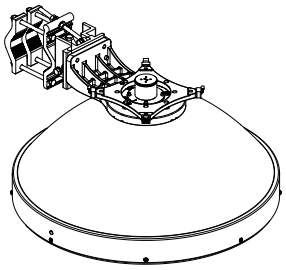
1.3 Torque Parameters of Standard Parts

Customer can use these torque parameters as reference to assembly the antenna.

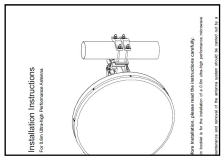
Table of Torque Parameters

NO.	Types of Standard Parts	Torque (N·m)
1	M3	0.6
2	M4	1.3
3	M5	3
4	M6	5
5	M10	28

2. Open the Package and Identify Parts



Antenna Assembly



Installation Instructions

Fig 2.1 Parts List

3. Antenna Overall Assembly

3.1 Antenna installation

The antenna is suitable for mounting on the right hand or left-hand side of the pole. The diagram in Fig. 3.1 shows the mounting details for left hand and right-hand use.

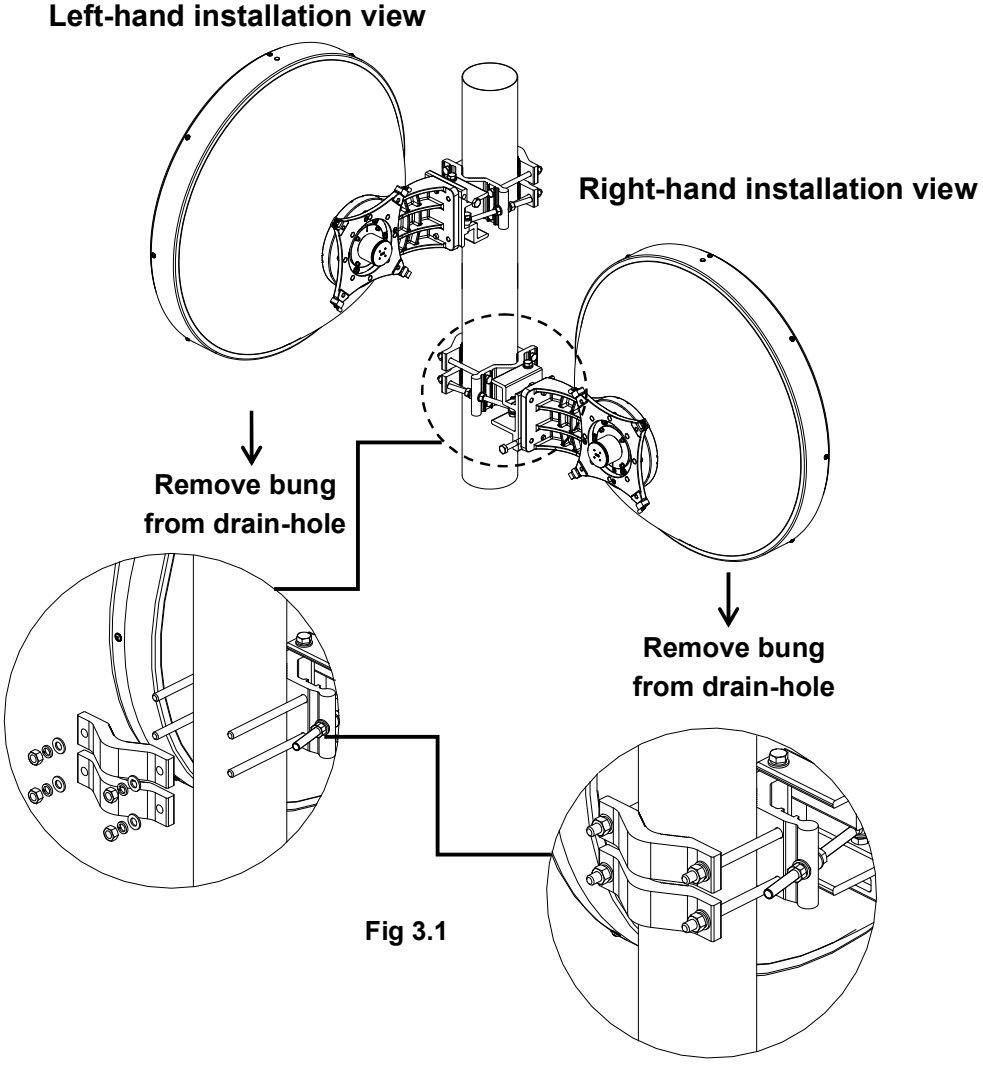


Fig 3.1

Attach Antenna to pole using the clamp (shown Fig 3.1). Align the antenna to approximately the final direction and tighten clamp bolts.

Remove the bung from the bottom drain-hole (shown Fig 3.2). Ensure that the top drain hole bung is fitted securely.

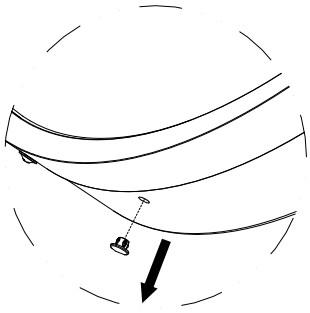


Fig 3.2

3.2 Polarization Adjustment

This model of microwave antenna provides either vertical or horizontal polarization options. By default, the vertical polarization is adopted, as shown in Fig 3.3. Should a customer need alternative configuration, it could be switched and adjusted according to Fig 3.3 ~ Fig 3.4.

Loosen the screws, rotate the transition, and tighten the screws.
ⓘPlease tighten all the screws diagonally after the polarization adjustment is done.

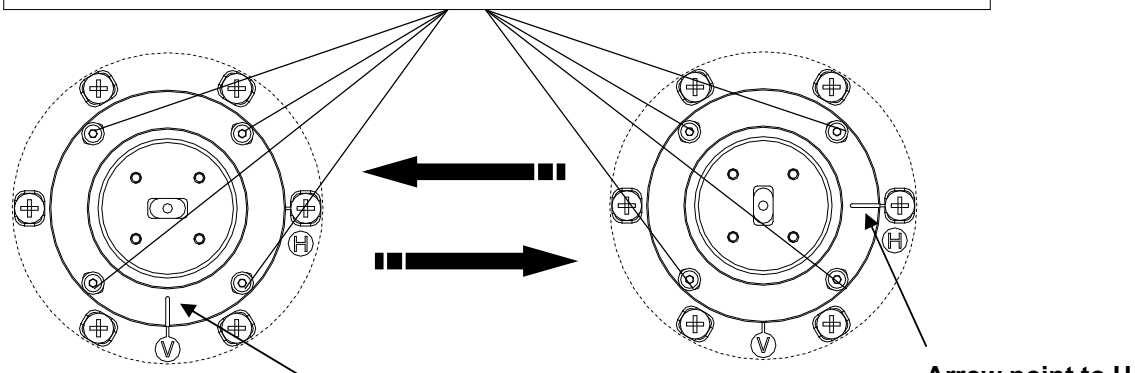


Fig 3.3

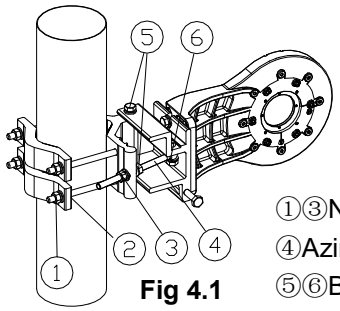
Fig 3.4

4. Antenna Adjustment

4.1 Azimuth Adjustment

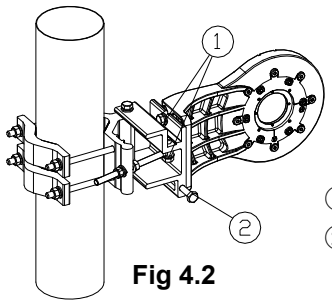
Make coarse azimuth adjustment: Referring to Fig 4.1, slightly loosen the 2 nuts ① of the Clamp ②. Then push the whole antenna structure slowly round the mounting pole. Point the antenna in approximately the correct direction. Use a compass to determine the antenna's position if necessary, and then tighten the nuts ①.

Make fine azimuth adjustment: Loosen both pivot bolts ⑤ & ⑥, and then adjust nuts ③ of Azimuth Adjustor ④ back and forth slowly. Antenna can make fine azimuth adjustment from -15°to +15°. Tighten Bolts ⑤ & ⑥ and adjuster ④ after the adjustment is complete.



①③Nut M10 ②Clamp
④Azimuth Adjustor
⑤⑥Bolt M10

Fig 4.1



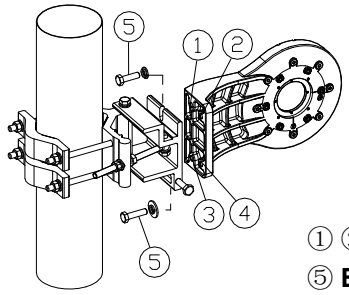
①Bolt M10
②Elevation Adjustor

Fig 4.2

4.2 Elevation Adjustment

Make coarse elevation adjustment (shown in Fig 4.3): loosen the bolts ⑤. Select the correct holes for the range of adjustment required based on the following table. Tighten bolts ⑤after adjustment is complete.

Make fine elevation adjustment (shown in Fig 4.2):loosen the bolts ①, and then rotate Elevation Adjustor ② clockwise or counter clockwise. The antenna has a fine adjustment of +/-15°. Tighten bolts ① after the adjustment is complete.



Use Bolt holes	Range of Adjustment
①&③(default)	**-15° to +15°**
①&④	**+3° to +33°**
②&③	**-33° to -3°**

① ② ③ ④**Thread Hole (M10)**

⑤ **Bolt M10**

Fig 4.3

5.0 Tighten and Inspect

Tighten all the bolts to the recommended torque after antenna assembly and adjustment is complete.

Inspect the Antenna to ensure that the installation is safe, and all instructions have been followed correctly.