

# Antenna Installation Instructions

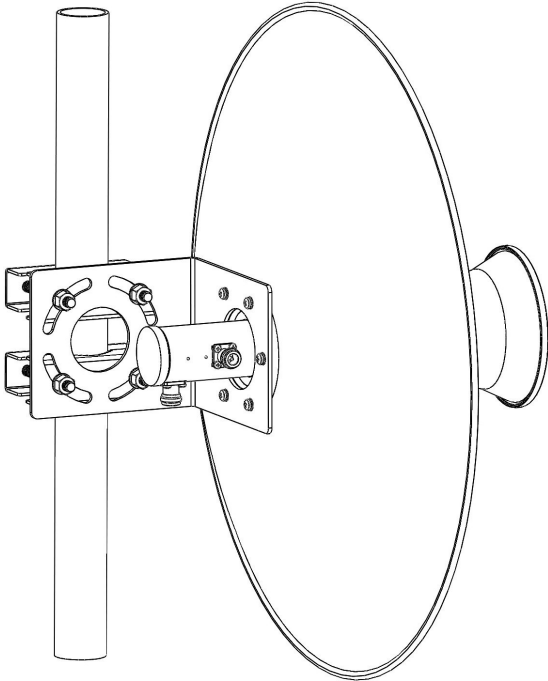
Part Number: HW5971-28.5D-HP

## Description

This antenna consists of a 0.52m reflector, feeder and antenna mounting bracket. The mounting bracket is designed for installation on vertical pipe of diameter 35mm to 75mm. The precise antenna mounting bracket provides adjustment ranges of  $\pm 30^\circ$  elevation.

**Notice**

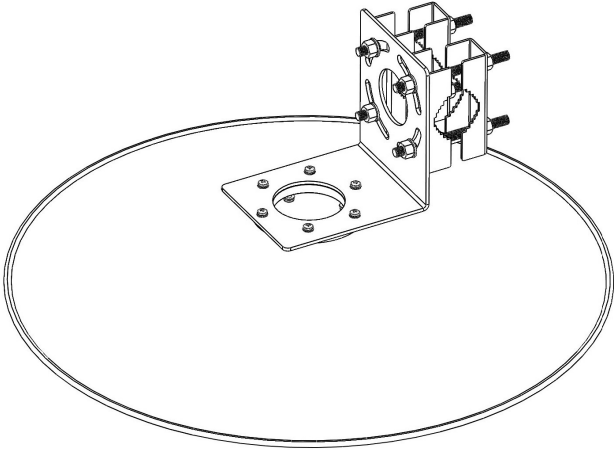
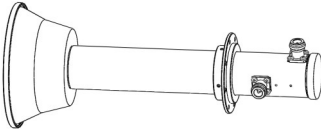
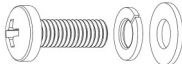
The installation, maintenance or removal of antenna systems requires qualified, experienced personnel. This installation instructions have been written for such personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment. Honorwave disclaims any liability or responsibility for the results of improper or unsafe installation practices.



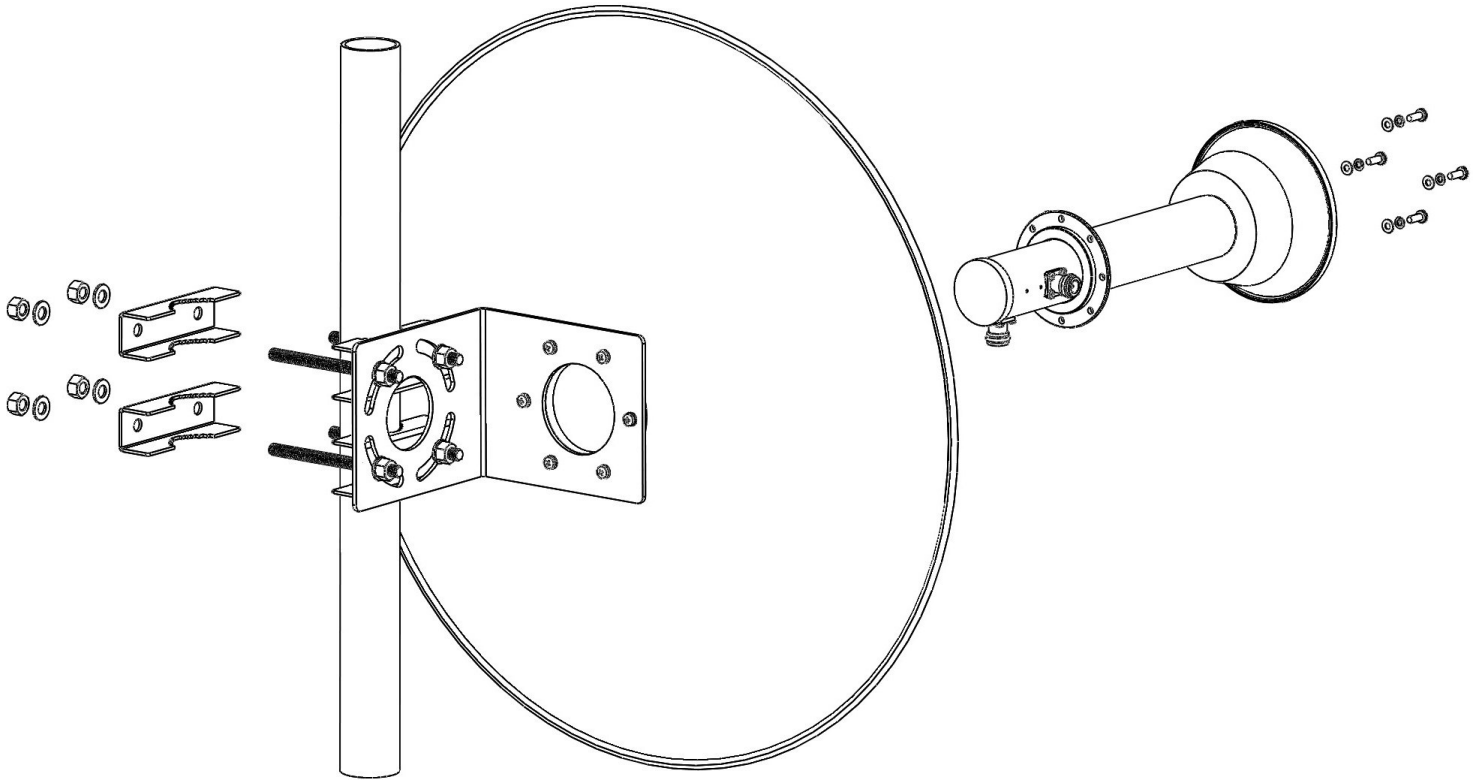
## Tools Required

| Item | Contents                  | Qty | Image                                                                                 |
|------|---------------------------|-----|---------------------------------------------------------------------------------------|
| 1    | Combination Wrench, 13mm  | 1   |  |
| 2    | Screwdriver, cross-recess | 1   |  |

## Part List

| Item | Contents                   | Qty | Description / Image                                                                                     |
|------|----------------------------|-----|---------------------------------------------------------------------------------------------------------|
| A    | Reflector 0.52m & Mounting | 1   |                     |
| B    | Feeder                     | 1   |                     |
| C    | Screw M4x12, Cross, st     | 4   | Feed to Reflector  |
| D    | Spring Washer M4, st       | 4   |                                                                                                         |
| E    | Washer M4, st              | 4   |                                                                                                         |
| F    | Installation Guide         | 1   |                                                                                                         |

## Installation



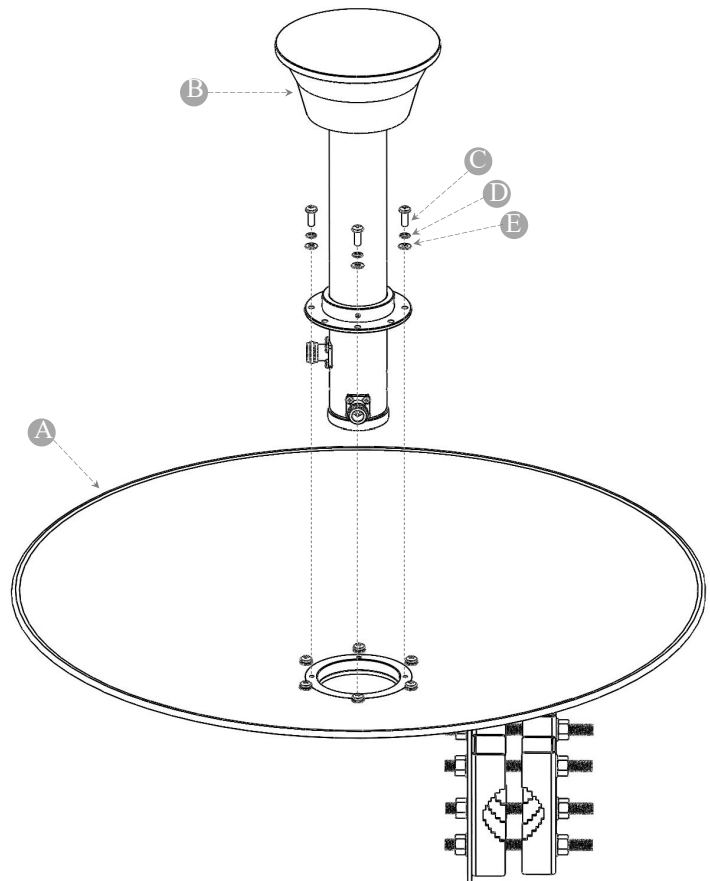
### 1 Install Feed to Reflector

Install Feed [B] to Reflector [A] by:

[C] Screw M4x12; 4 pcs

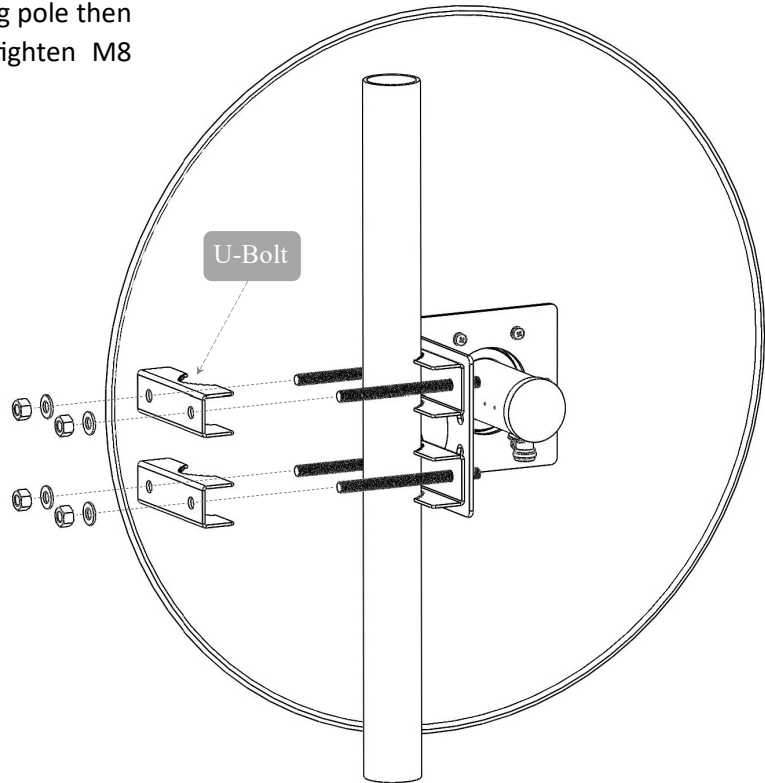
[D] Spring Washer M4; 4 pcs

[E] Washer M4; 4 pcs



## 2 Attach Antenna to Mounting Pole

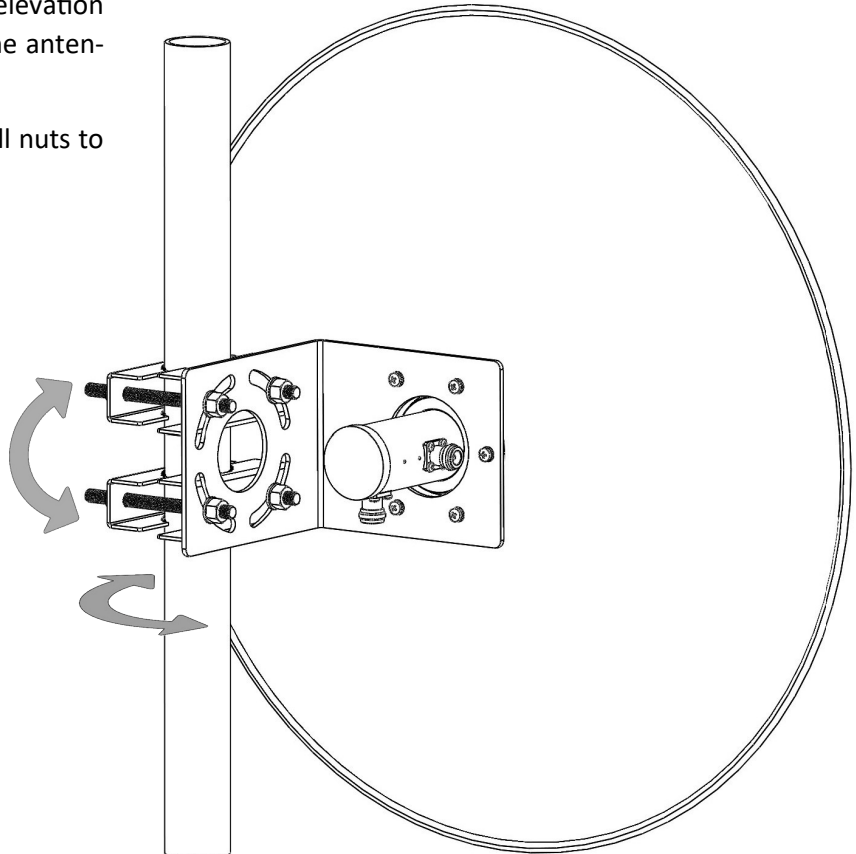
Follow the picture to attach antenna to mounting pole then place the U-bolts on the M8x120 Screws and tighten M8 nuts.



## 3 Adjust Azimuth and Elevation

After an approximate alignment , both elevation and azimuth can be adjusted by rotating the antenna.

When azimuth/elevation are set , tighten all nuts to approximately 14N-m (10 lb-ft).



## TECHNICAL DATA SHEET

### General Specifications

|              |                                |
|--------------|--------------------------------|
| Model Number | HW5971-28.5D-HP                |
| Diameter (m) | 0.52                           |
| Polarization | Dual (Vertical and Horizontal) |

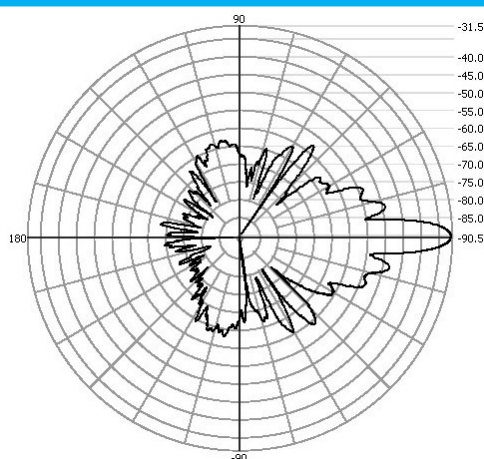
### Electrical Specifications

|                        |                               |
|------------------------|-------------------------------|
| Input                  | 2 × N-Female                  |
| Frequency Range (MHz)  | 5.9 GHz to 7.1 GHz            |
| VSWR                   | 1.4:1                         |
| Impedance ( $\Omega$ ) | 50                            |
| Gain (dBi)             | 28.5                          |
| 3dB Beamwidth          | H-plane: 5.4° / E-plane: 5.4° |
| F/B Ratio (dB)         | 40                            |

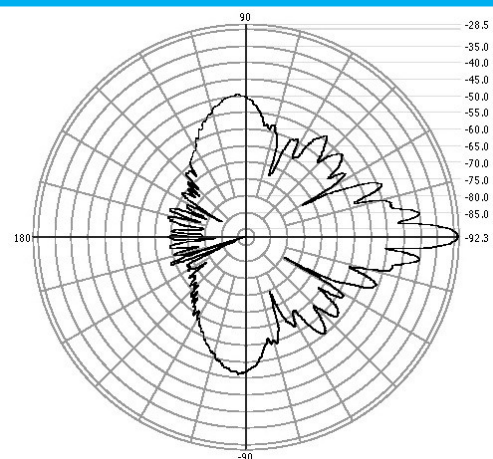
### Mechanical Specifications

|                              |                 |
|------------------------------|-----------------|
| Weight With Holder (kg)      | 3 kg            |
| Color                        | Golden          |
| Plating                      | Dacromet        |
| Screws and Nuts              | Dacromet        |
| Elevation Adjustment         | $\pm 30^\circ$  |
| Wind Loading (km/h)          | 200             |
| Operating Temperature        | -40 °C to 60 °C |
| Supportable Comparative Damp | 90%             |

### Patterns



E-Plane



H-Plane

For further technical support leave message at

E-mail: [support@honorwave.com](mailto:support@honorwave.com)

whatsapp: +964 770 607 7724 8 A.M - 5 P.M (GMT+3)

All messages will be answered in 2 working days.