

| Date | Prepared by | Approved by | Document nos | Rev |
|-------------|-------------|-------------|-----------------------|-----|
| 22 Oct 2022 | Yasir | Tony | MS-ANT-ALIGN-TOOL-001 | 1 |

INSTRUCTION MANUAL MS-ANT-ALIGN-TOOL

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Revision History:

| Date | Description | Revised by | Revision nos. |
|-------------|-----------------------------------|------------|---------------|
| 22-Mar-2022 | Initial document released | Yasir | 1 |
| 22-Oct-2022 | Camera mounting hardware upgraded | Yasir | 2 |
| | | | |

1.00 HARDWARE COMPONENTS

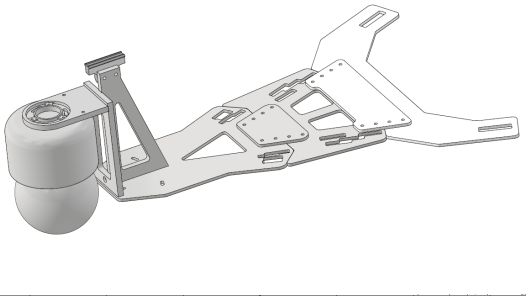
1.10 Matsing Laptop



1.20 HD PTZ Camera



1.30 Camera Mounting System



1.40 Ethernet Cable



1.50 POE Adapter



2.00 COMPATIBLE ANTENNA MODELS

2.10 30cm, 45cm, 60cm, 90cm, 120cm, 180cm

Column headers in the below table show lens size and the respective model numbers.

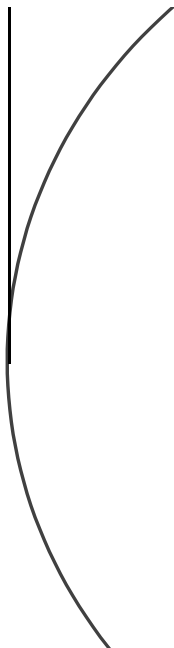
2.11 Single-Band

All model numbers that **don't contain** "DB" are Single-Band models.

2.12 Dual-Band

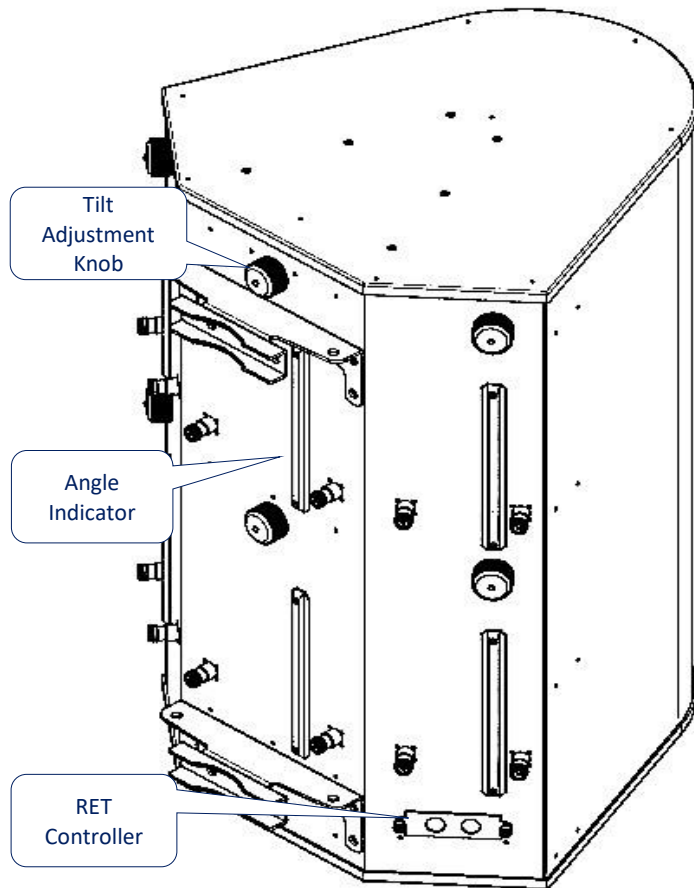
All model numbers that **contain** "DB" letters represent Dual-Band models.

| 180cm | 120cm | 90cm | 60cm | 45cm | 30cm |
|---------------------|---------------|--------------|--------------|-------------|-------------|
| MS-10.10.10DBA180 | MS-16H120 | MS-6.3DB90 | MS-4.2DB60 | MS-12F45 | MS-4F30 |
| MS-10.10.10DBA180-T | MS-8H120 | MS-6.3DB90-T | MS-4.2DB60-T | MS-18F45 | MS-8F30 |
| MS-12.6DB180 | MS-8L120 | MS-12F90 | MS-16F60 | MS-6F45 | |
| MS-12.6DB180-T | MS-8T120 | MS-12H90 | MS-4H60 | | |
| MS-20.10DBA180 | MS-8.4DB120 | MS-18H90 | MS-8F60 | | |
| MS-20.10DBA180-T | MS-8.4DB120-T | MS-24F90 | MS-8H60 | | |
| MS-24H180 | | MS-48F90 | | | |
| MS-48H180 | | MS-6H90 | | | |
| MS-6L180 | | | | | |
| MS-6T180 | | | | | |
| MS-12H180 | | | | | |
| MS-12L180 | | | | | |
| MS-12T180 | | | | | |



3.00 MANUAL TILT ADJUSTMENT

| | |
|---|--|
| 1 | The MBA antenna come in RET mode as default, but if needed can also be manually adjusted. To do so, please unscrew the waterproof cap behind the element whose tilt is to be adjusted. |
| 2 | By Default the knob is on engaged mode, pull out the handle for manual tilt adjustment, turn the handle to change the tilt. |
| 3 | When done, push the handle back in, screw the waterproof cap back to the position. |



Engaged with internal RET motor position



Unscrew/ Screw the cap for tilt adjustment process



Pull knob out to disengaged RET for tilt adjustment



4.00 BRACKET INSTALLATION

4.10 Bolts & Nuts Requirements

| nos | Model Apply | Bracket | Bolts | | Nuts | |
|-----|--------------------|---------|-------------|-----|------|-----|
| | | Qty | Size | Qty | Size | Qty |
| 1 | All MBA's Antennas | 2 | M12 x 200mm | 4 | M12 | 10 |

4.11 Bolts & Nuts



4.12 Bracket



4.20 Tools Requirement

4.21 Adjustable Spanner



4.22 M12 Spanner



4.30 Bracket Spacing & Installation Sample

