

MS-8.4DB120 Antenna Series Instruction Manual

Date	Prepared by	Approved by	Document nos	Revision
21 May 2020	Ray Ling	Pavel Lagoiski	MS-8.4-IM-001	1

Applicable Model: MS-8.4DB120, MS-8.4DB120-T

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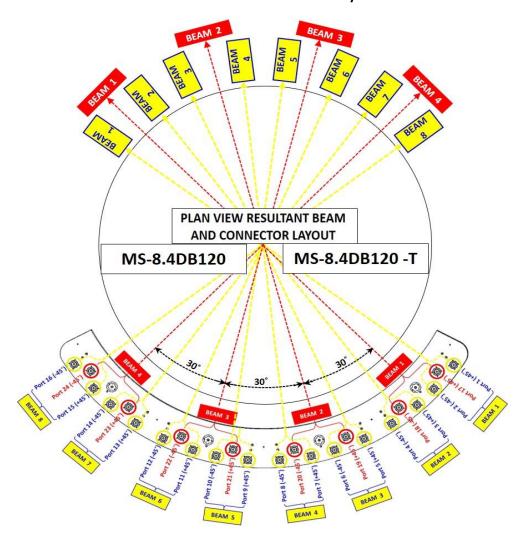
Revision History:

Date	Description	Revised by	Revision nos.
21-May-20	To include MS-8.4DB120-T and update all to newest requirement.	Ray Ling	1

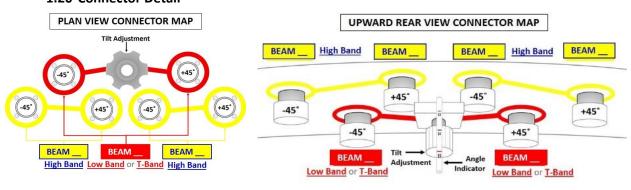
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1.00 BEAMS & CONNECTORS:

1.10 Plan View Resultant Beam And Connector Layout

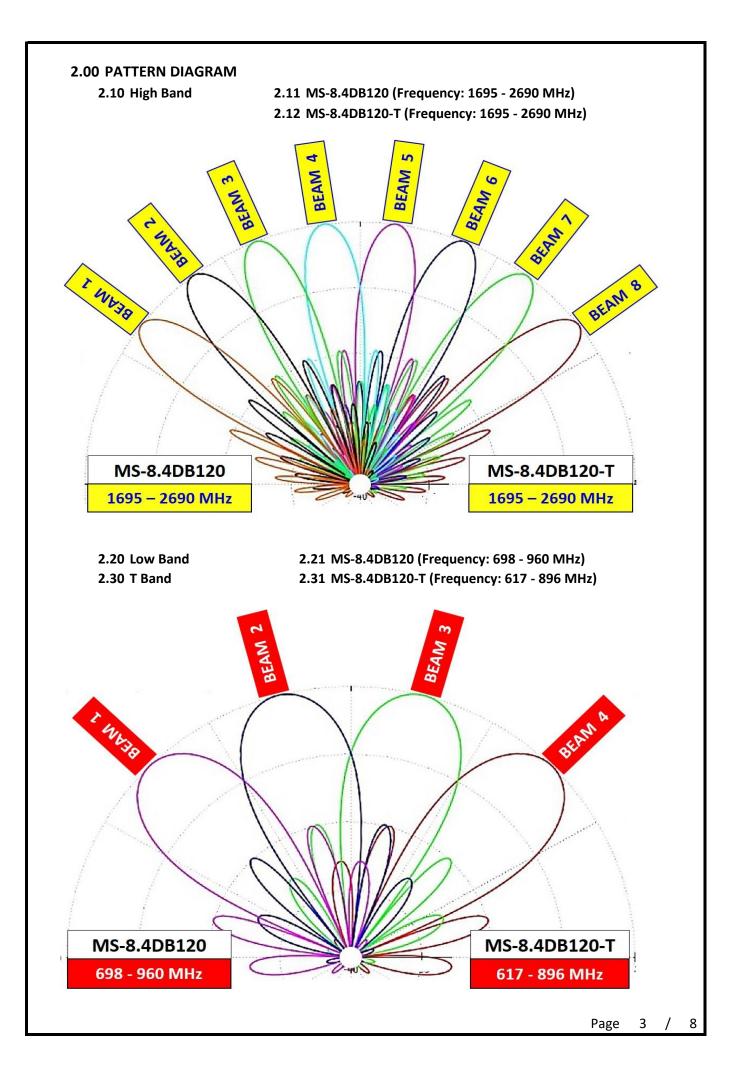


1.20 Connector Detail



1.30 Connector Ports Table

Low Band	BEAM 4		BEAM 3		BEAM 2		BEAM 1	
or T-Band	Port 24 (-45°)	Port 23 (+45°)	Port 22 (-45°)	Port 21 (+45°)	Port 20 (-45°)	Port 19 (+45°)	Port 18 (-45°)	Port 17 (+45°)
	BEAM 8	BEAM 7	BEAM 6	BEAM 5	BEAM 4	BEAM 3	BEAM 2	BEAM 1
High Band			Port 12 Port 11 (-45°) (+45°)		!!!	!		

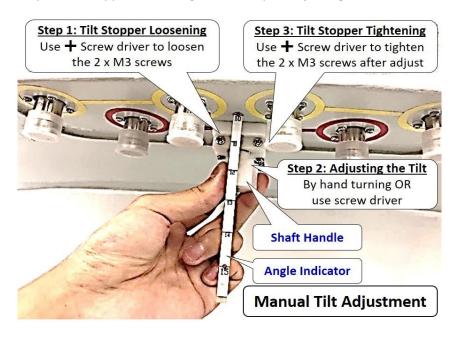


3.00 MANUAL TILT ADJUSTMENT

Step 1: Tilt Stopper Loosening.

Step 2: Adjusting the Tilt.

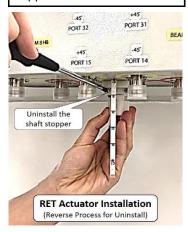
Step 3: Tilt Stopper Tightening.



4.00 RET ACTUATOR INSTALLATIONS (Optional)

4.10 Installation Process (Reverse Process for Uninstallation)

Step 1: Uninstall the Shaft stopper



Step 4: Install the RET



Step 2: Uninstall the Shaft Handle



Step 5: RET Actuator stub gap facing out



Step 3: Install the Hex adaptor and screw it on



Step 6: RET Actuator Tighten to RET attachment interface



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Step 7: Screw and tighten RET cable



Step 8: RET Actuator installation complete.



4.20 RET Actuator kit and tools

RET Attachment Interface (Sub-Assy)



RET Attachment Interface (Sub-Assy)

RET Attachment Interface Kits



Silicon Gasket

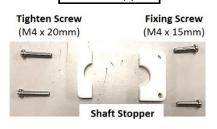


Hex Screw (M4 x 10mm)

Use M3 Hex Key

RET Attachment Interface

Shaft Stopper



Hex Adaptor



Shaft Handle



RET Actuator



RET cable

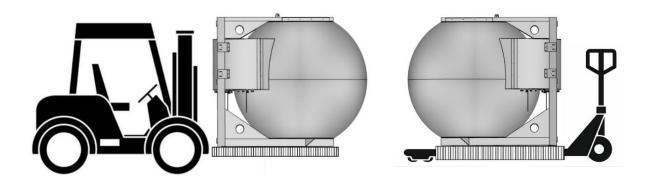


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5.00 TRANSPORTATION / INSTALLATION

5.10 Transportation (From Point to Point)

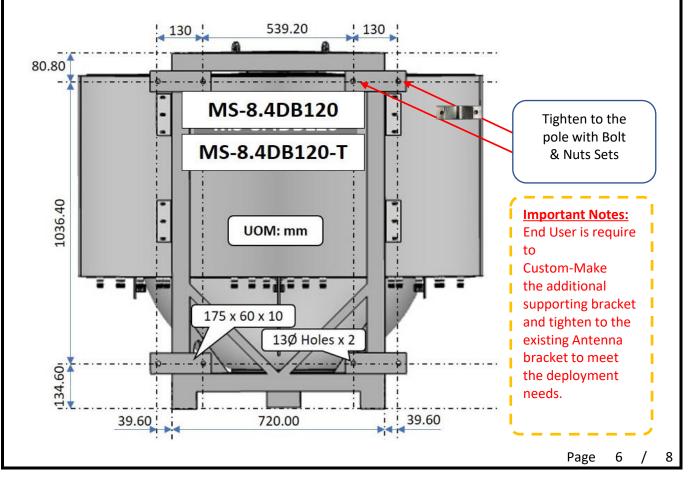
Strictly comply to the Local authority and regulatory on Workplace Safety and Health Control and Measure when moving and transportation of large or heavy equipment, appropriate material handling machine should be use. (Risk Assessment apply for Forklift or Pallet Truck Lifting)



5.20 Bracket Mounting

Lens Size (Model)	Bracket Qty (pc)	Bolt & Nuts Size	Bolts Set (pc)
MS-XXX180 Lens	6	M14 x 15cm	12
MS-XXXX 60,90,120 Lens	4	M12 x 15cm	8



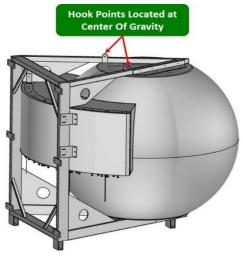


5.30 Installation using a crane

Strictly comply to the Local authority and regulatory on Workplace Safety and Health Control and Measure when performing lifting of large or heavy equipment, appropriate material handling machine should be use and only certified personal should perform the task. (Risk Assessment require to apply for both Up-Lifting and Down-Lifting.)

5.31 Lifting the Antenna

The antenna has 2 hook points installed on the top frame (located slightly behind the center of the sphere). These hooks are designed at the center of gravity point of the antenna. A cable, rope can be securely fastened to the hooks and the antenna can be lifted using a crane or forklift as pictured below.







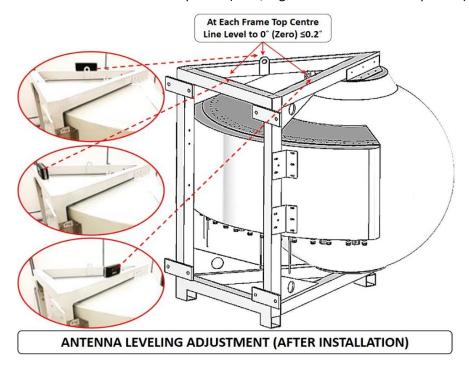


5.40 Antenna Installation

With reference to "Bracket Mounting" Procedure, End user is required to Custom-Make the additional supporting bracket and tighten it to the existing Antenna bracket to meet the deployment needs.

5.41 Antenna Levelling

After the Antenna is mounted to the bracket, it is required to be adjusted to 0° (Zero Degree) with ≤0.2° on 3 sides of the frame top level.(Rear, Right & Left=As shown in picture)



5.42 Digital Level Gauge Calibration



5.43 Adjustment Requirement



