

MS-10.10.1	0DBA180	Instruction Manual						
Date	Prepared by	Approved by	Document nos	Revision				
9 Jan 2020	Ray Ling	Patrick Yeo	MS-10.10.10DBA180-IM-001	00				

# **INSTRUCTION MANUAL MS-10.10.10DBA180**

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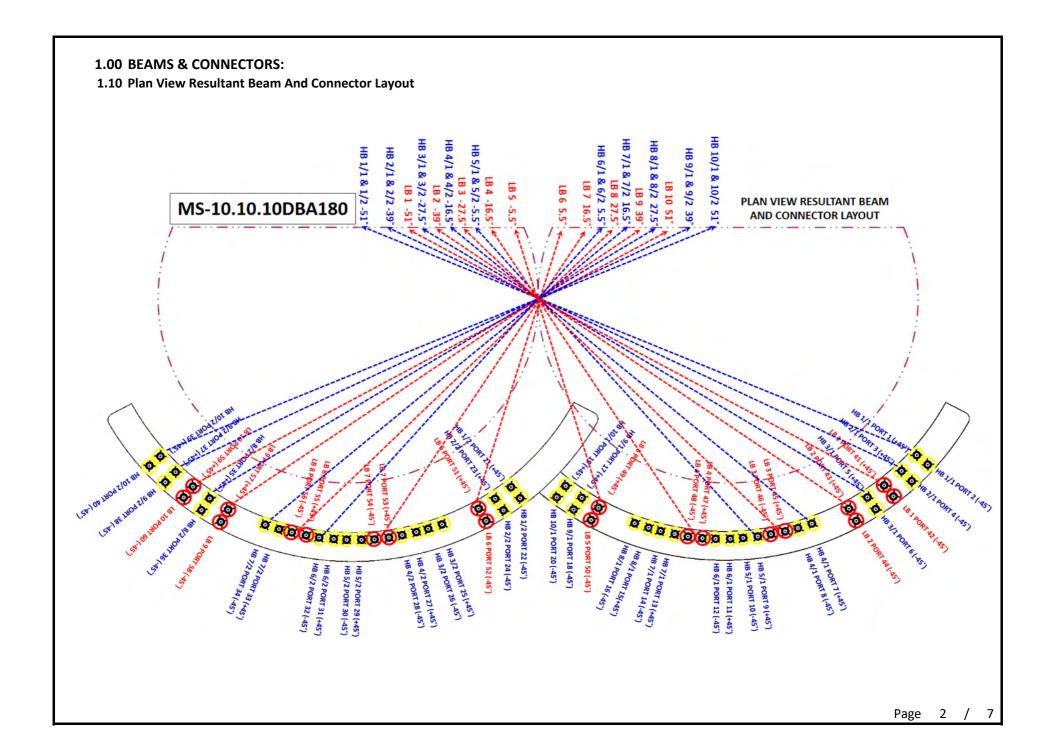
### 3.00 TRANSPORTATION / INSTALLATION

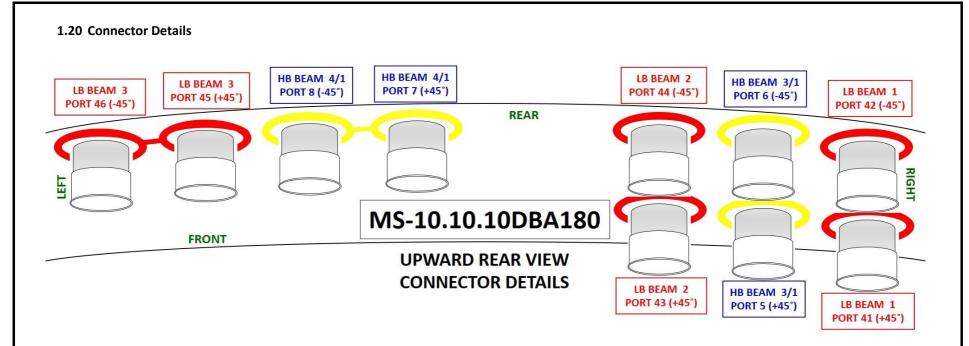
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#### **Revision History:**

Date	Description	Revised by	Revision nos.

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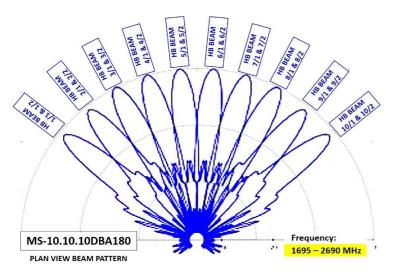


#### 1.30 Connector Ports Table

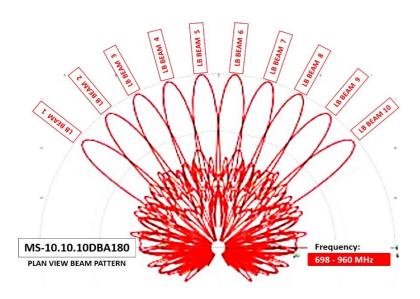
	MS-10.10.10DBA180 CONNECTOR TABLE																				
HB BEAM 10/1	HB BEAM 9/1	LB BEAM 5	нв вел	AM 8/1	нв вел	M 7/1	LB BE	EAM 4	нв вел	AM 6/1	нв вел	AM 5/1	LB BE	AM 3	нв вел	AM 4/1	LB BEAM 2	HB BEAM 3/1	LB BEAM 1	HB BEAM 2/1	HB BEAM 1/1
PORT 19	PORT 17	PORT 49	PORT 16	PORT 15	PORT 14	PORT 13	PORT 48	PORT 47	PORT 12	PORT 11	PORT 10	PORT 9	PORT 46	PORT 45	PORT 8	PORT 7	PORT 43	PORT 5	PORT 41	PORT 3	PORT 1
(+45°)	(+45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(+45°)	(+45°)	(+45°)	(+45°)	(+45°)
SEAR VIEW OF ANTENNA RIGHT SIDE RIGHT SIDE RIGHT SIDE										PORT 2 (-45°)											
HB BEAM 10/2	HB BEAM 9/2	LB BEAM 10	HB BEAM 8/2	LB BEAM 9	нв вел	M 7/2	LB BE	AM 8	нв вел	AM 6/2	НВ ВЕА	AM 5/2	LB BE	AM 7	нв вел	AM 4/2	нв вел	AM 3/2	LB BEAM 6	HB BEAM 2/2	HB BEAM 1/2
PORT 39	PORT 37	PORT 59	PORT 35	PORT 57	PORT 34	PORT 33	PORT 56	PORT 55	PORT 32	PORT 31	PORT 30	PORT 29	PORT 54	PORT 53	PORT 28	PORT 27	PORT 26	PORT 25	PORT 51	PORT 23	PORT 21
(+45°)	(+45°)	(+45°)	(+45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(+45°)	(+45°)	(+45°)
PORT 40 (-45°)	PORT 38 (-45°)	PORT 60 (-45°)	PORT 36 (-45°)	PORT 58 (-45°)	<< <lef< td=""><td colspan="6">FT SIDE REAR VIEW OF ANTENNA LEFT SIDE</td><td>RIGHT 9</td><td>SIDE&gt;&gt;&gt;</td><td>PORT 52 (-45°)</td><td>PORT 24 (-45°)</td><td>PORT 22 (-45°)</td></lef<>	FT SIDE REAR VIEW OF ANTENNA LEFT SIDE						RIGHT 9	SIDE>>>	PORT 52 (-45°)	PORT 24 (-45°)	PORT 22 (-45°)					

# 2.00 PATTERN DIAGRAM

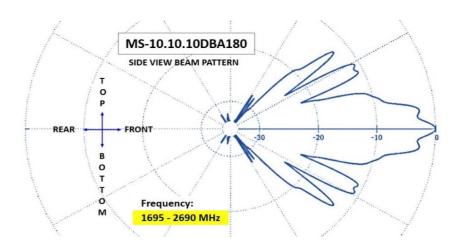
### 2.10 Plan View HB Beam Pattern:



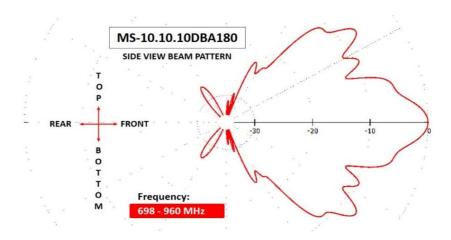
### 2.30 Plan View LB Beam Pattern:



#### 2.20 Side View HB Beam Pattern:



### 2.40 Side View LB Beam Pattern:



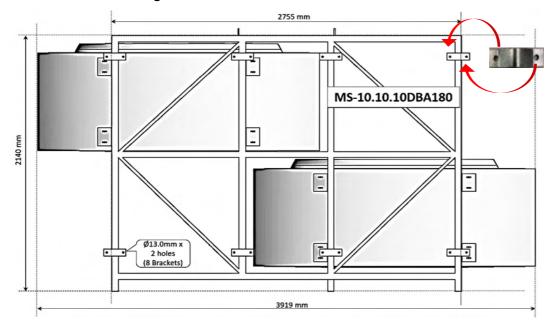
# 3.00 TRANSPORTATION / INSTALLATION

### 3.10 Transportation (From Point to Point)

Strictly comply to the local authority and regulatory on Workplace Safety and Health Control and Measure when moving and transporting of large or heavy equipment. Appropriate material handling machine should be used. (Risk Assessment applies for Forklift or Pallet Truck Lifting)



### 3.20 Bracket Mounting



Model	Bracket	Bolt &	Bolts Set	
	Qty (pc)	Nuts Size	(pc)	
MS- 10.10.10DBA180	8	M12 x 15cm	16	

Tighten to the pole with Bolt & Nuts Sets





# **Important Notes:**

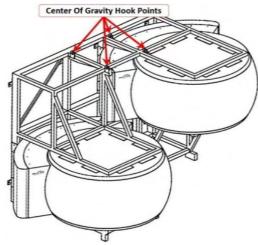
End User is required to CUSTOM-MAKE the additional supporting bracket and tighten it to the existing Antenna bracket to meet the deployment needs.

### 3.30 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 used and only certified personnel should perform the task. (Risk Assessment requirement applies for both Up-Lifting and Down-Lifting.)

# 3.31 Lifting the Antenna

The antenna has 4 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 as pictured below.







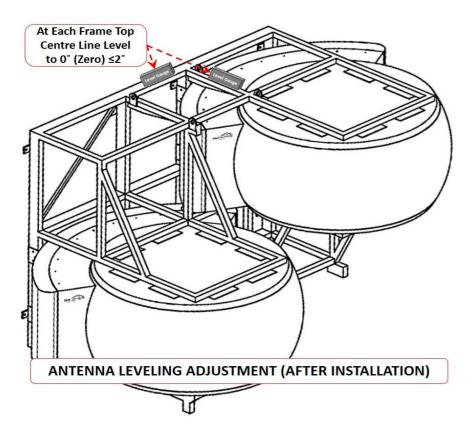


#### 3.40 Antenna Installation

With reference to <u>Item 3.2 Bracket Mounting Procedure</u>, End user is required to Custom-Make the additional supporting bracket and tighten it to the existing Antenna bracket to meet the deployment needs.

# 3.41 Antenna Leveling

After the Antenna is mounted to the bracket, it is required to be adjusted to  $0^{\circ}$  (Zero Degree) with  $\leq 0.2^{\circ}$  on 2 sides of the frame top level.(Rear, Right & Left=As shown in picture)



# 3.42 Digital Level Gauge Calibration



### 3.43 Adjustment Requirement

