# DH 48" Polar Mount

Available in 3.0m, 3.7m and 3.8m one piece or sectional antenna



Specifications	3.0m	3.7m	3.8m		
Antenna Sections	4	4	4		
C Band Gain @ 4 Gig	40.6 db	42.3 db	42.5 db		
Ku Band Gain @ 12 Gig	49.9 db	51.1 db	51.8 db		
Aluminum Thickness	.085	.085	.090		
f/d Ratio	.3	.4	.378		
Wind Force at 60° at 90 MPH	3,020 lbs	4,200 lbs	4,600 lbs		
First Side Lobe (E-Plane)	1.2°	2.4°	2.3°		
All Side Lobes	-26 db	-22 db	-22 db		
3db Beam Width (E-Plane)	0.5°	1.4°	1.4°		
F/L	36"	57.6"	57.6"		
Antenna Weight (one piece)	102 lbs	153 lbs	160 lbs		
Antenna Weight (sectional)	110 lbs	165 lbs	175 lbs		
Crate Dims w/Antenna Approximate Weight	62"x40"x66" 254 lbs	76"x36"x78" 348 lbs	79"x36"x81" 464 lbs		
Mount Weight	224 lbs	224 lbs	224 lbs		
Pallet Dims w/Mount Approximate Weight	50"x50"x19" 230 lbs	50"x50"x19" 230 lbs	50"x50"x19" 230 lbs		

## \*Antenna sizes are nominal

### \*Custom crating available

### \*Dimensions & weights are approximate

### **OPTIONAL:**

- Hot Dip Galvanizing
- Non-Penetrating Roof Mount
- Electronics, Feedhorns, LNBS, Filters & CablingHalf/Full Dish De-icing



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#### 48" Polar Mount Features

- 48" Ring with 8 blocks
- Bronze Bushings at Pivot Points
- 110° of Travel
- 5 1/2" od mast
- 8 Back Braces
- 4 Struts

With today's innovative technology, DH is able to take our larger; one piece, spun aluminum antenna and cut them into sections. This allows for ease of handling, installation and shipping.





Crating available for domestic or ISPM 15 international

Purchased was a DH 3.7m 4 piece antenna and 48" mount. Installation was done on a roof at 25'. The panels are much easier to get to the roof for assembly. Once on the roof it assembled quickly. We used four guys, total of 4 hrs. Antenna was strung and we used our spectrum analyzer for final confirmation. Installation was smooth! KCVU-TV, Ken Rice, Chico CA 95928 (07/18/2012)



# **DH TEST DATA**

## Tested with A1 Turbo S2

	Dreaf of Devicements													
<u></u>	Proof of Performance													
		Fi	lename -	3 7M N	OR3220.1	3W H	Fie	dGuid	le No	rth Ame	erican V	2 10		
		310	Date:	10/03/2	013			Softwa	re: 1.2	4				
			Time: ocation:	07:17:1	6				el: TUI al: 167	RBO S2	2			
			chnician:	IRAN			LN			=5.15 3	4-4.2			
			Notes:	1						Contin	ental US	5		
			Level:	dBm				Swite	h: No	ne				
				Satel	lite: 13	3.0 W	/est /	/ G1	5					
Tran	Dnlink MHz	Freq MHz	Error MHz F	Pol Ty	od Code pe Rate	e Symbol Rate	Level dbm	IRD SiqQ	C/N db	Eb/No dB	dB	Status	Sales C	m/
1 ID	MHz 3720.088	MHz 1429.912	Error MHz F -0.011	ol Ty H Dvt	od Code pe Rate p-S 5/	Symbol Rate	Level dbm -29.0	IRD SiqQ 100	C/N db 16.4	dB 15.9	dB 17.7	Status LOCK	Volts 17.9	m/
	MHz	MHz 1429.912 1149.944	Error MHz F	Pol Ty	od Code pe Rate p-S 5// S2 8-5//	Symbol Rate 29270 30000	Level dbm	IRD SiqQ	C/N db	dB	dB	Status	Volts	m/ 21
1 ID 11A1	MHz 3720.088 4000.056	MHz 1429.912 1149.944 1359.820	Error MHz F -0.011 -0.008	M Pol Ty H Dvb H Dvb	od Code pe Rate o-S 5// S2 8-5// o-S 3//	Symbol Rate 5 29270 5 30000 4 11936	Level dbm -29.0 -28.1	IRD SiqQ 100 100 97	C/N db 16.4 15.7	dB 15.9 15.2	dB 17.7 17.0	Status LOCK LOCK	Volts 17.9 17.9	m/ 210 210 210
1 ID 11A1 . D2A1 . H2A1 . E2A1 .	MHz 3720.088 4000.056 3790.180 3808.072 3880.052	MHz 1429.912 1149.944 1359.820 1341.928 1269.948	Error MHz F -0.011 -0.008 -0.039 -0.006 -0.022	M Pol Ty H Dvt H Dvb H Dvb H Dvb H Dvb	od Code pe Rate o-S 5// S2 8-5// o-S 3// S2 8-3// S2 8-3// S2 8-3//	Symbol Rate 29270 30000 11936 16303 29999	Level dbm -29.0 -28.1 -32.1 -33.4 -31.9	IRD SiqQ 100 100 97 100 100	C/N db 16.4 15.7 14.1 15.5 15.3	dB 15.9 15.2 13.6 15.0 14.8	dB 17.7 17.0 15.4 16.8 16.6	Status LOCK LOCK LOCK LOCK	Volts 17.9 17.9 17.9 17.9 17.9	m/ 210 210 210 210 210 210
1 ID 11A1 . D2A1 . H2A1 . E2A1 . B2B1 .	MHz 3720.088 4000.056 3790.180 3808.072 3880.052 4120.044	MHz 1429.912 1149.944 1359.820 1341.928 1269.948 1029.956	Error MHz F -0.011 -0.008 -0.039 -0.006 -0.022 -0.017	M Pol Ty H Dvb H Dvb H Dvb H Dvb H Dvb H Dvb	od Code pe Rate 5-S 5// S2 8-5// 52 8-3// S2 8-3// S2 8-3// S2 8-3// S2 8-3//	<ul> <li>Symbol</li> <li>Rate</li> <li>29270</li> <li>30000</li> <li>11936</li> <li>16303</li> <li>29999</li> <li>31250</li> </ul>	Level dbm -29.0 -28.1 -32.1 -33.4 -31.9 -28.6	IRD SiqQ 100 100 97 100 100 98	C/N db 16.4 15.7 14.1 15.5 15.3 14.5	dB 15.9 15.2 13.6 15.0 14.8 14.0	dB 17.7 17.0 15.4 16.8 16.6 15.8	Status LOCK LOCK LOCK LOCK LOCK	Volts 17.9 17.9 17.9 17.9 17.9 17.9	m/ 211 211 211 211 211 211 211
1 ID 11A1 . D2A1 . H2A1 . E2A1 . B2B1 . 3 .	MHz 3720.088 4000.056 3790.180 3808.072 3880.052 4120.044 3760.084	MHz 1429.912 1149.944 1359.820 1341.928 1269.948 1029.956 1389.916	Error MHz F -0.011 -0.008 -0.039 -0.006 -0.022 -0.017 0.014	M Pol Ty H Dvb H Dvb H Dvb H Dvb H Dvb H Dvb H Dvb	od Code pe Rate 5-S 5// S2 8-5// 0-S 3// S2 8-3// S2 8-3// S2 8-3// S2 8-3// S2 8-3// C2 3//	<ul> <li>Symbol</li> <li>Rate</li> <li>29270</li> <li>30000</li> <li>11936</li> <li>16303</li> <li>29999</li> <li>31250</li> <li>19510</li> </ul>	Level dbm -29.0 -28.1 -32.1 -33.4 -31.9 -28.6 -27.6	IRD SiqQ 100 100 97 100 100 98 100	C/N db 16.4 15.7 14.1 15.5 15.3 14.5 17.9	dB 15.9 15.2 13.6 15.0 14.8 14.0 17.4	dB 17.7 17.0 15.4 16.8 16.6 15.8 19.2	Status LOCK LOCK LOCK LOCK LOCK LOCK LOCK	Volts 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17.9	m/ 211 211 211 211 211 211 211 211
1 ID 11A1 . D2A1 . H2A1 . E2A1 . B2B1 .	MHz 3720.088 4000.056 3790.180 3808.072 3880.052 4120.044	MHz 1429.912 1149.944 1359.820 1341.928 1269.948 1029.956 1389.916 1105.488	Error MHz F -0.011 -0.008 -0.039 -0.006 -0.022 -0.017	M Pol Ty H Dvb H Dvb H Dvb H Dvb H Dvb H Dvb H Dvb H Dvb	od Code pe Rate 5-S 5// S2 8-5// 0-S 3// S2 8-3// S2 8-3// S2 8-3// S2 8-3// S2 8-3// C2 3//	<ul> <li>Symbol</li> <li>Rate</li> <li>29270</li> <li>30000</li> <li>11936</li> <li>16303</li> <li>29999</li> <li>31250</li> <li>19510</li> <li>22500</li> </ul>	Level dbm -29.0 -28.1 -32.1 -33.4 -31.9 -28.6	IRD SiqQ 100 100 97 100 100 98	C/N db 16.4 15.7 14.1 15.5 15.3 14.5	dB 15.9 15.2 13.6 15.0 14.8 14.0	dB 17.7 17.0 15.4 16.8 16.6 15.8	Status LOCK LOCK LOCK LOCK LOCK LOCK LOCK	Volts 17.9 17.9 17.9 17.9 17.9 17.9	m/ 211 211 211 211 211 211 211
1 ID 11A1 _ D2A1 _ H2A1 _ E2A1 _ B2B1 _ 3 _ G3A1 _	MHz 3720.088 4000.056 3790.180 3808.072 3880.052 4120.044 3760.084 4044.512	MHz 1429.912 1149.944 1359.820 1341.928 1269.948 1029.956 1389.916 1105.488 1309.920	Error MHz F -0.011 -0.008 -0.039 -0.006 -0.022 -0.017 0.014 -0.052	M Pol Ty H Dvb H Dvb H Dvb H Dvb H Dvb H Dvb H Dvb H Dvb H Dvb H Dvb	od Code pe Rate 5-S 5/0 S2 8-5/0 5-S 3/4 S2 8-3/4 S2 8-3/4 S2 8-3/4 C2 3/4 S2 8-5/0	<ul> <li>Symbol</li> <li>Rate</li> <li>29270</li> <li>30000</li> <li>11936</li> <li>16303</li> <li>29999</li> <li>31250</li> <li>19510</li> <li>22500</li> <li>29270</li> </ul>	Level dbm -29.0 -28.1 -32.1 -33.4 -31.9 -28.6 -27.6 -31.6	IRD SiqQ 100 100 97 100 100 98 100 99 100	C/N db 16.4 15.7 14.1 15.5 15.3 14.5 17.9 15.0	dB 15.9 15.2 13.6 15.0 14.8 14.0 17.4 14.5	dB 17.7 17.0 15.4 16.8 16.6 15.8 19.2 16.3	Status LOCK LOCK LOCK LOCK LOCK LOCK LOCK	Volts 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17.9	m/ 21 21 21 21 21 21 21 21 21 21
1 ID 11A1 - D2A1 - H2A1 - E2A1 - B2B1 - 3 - G3A1 - 7 - 13 - 17 -	MHz 3720.088 4000.056 3790.180 3808.072 3880.052 4120.044 3760.084 4044.512 3840.080 3840.080 3960.076 4025.324	MHz 1429.912 1149.944 1359.820 1341.928 1269.948 1029.956 1389.916 1105.488 1309.920 1189.924 1124.676	Error MHz F -0.011 -0.008 -0.039 -0.006 -0.022 -0.017 0.014 -0.052 0.015 0.015 0.015	M Pol Ty H Dvb H Dvb	od Code pe Rate 5-S 5// S2 8-5// S2 8-3// S2 8-3// S2 8-3// S2 8-3// S2 8-3// S2 8-3// C2 3// C2 3// C2 3// C2 3// C2 3//	<ul> <li>Symbol</li> <li>Rate</li> <li>29270</li> <li>30000</li> <li>11936</li> <li>16303</li> <li>29999</li> <li>31250</li> <li>31250</li> <li>19510</li> <li>292700</li> <li>19510</li> <li>4878</li> </ul>	Level dbm -29.0 -28.1 -32.1 -33.4 -31.9 -28.6 -27.6 -31.6 -27.4 -26.2 -33.2	IRD SiqQ 100 100 97 100 100 98 100 99 100 100 100	C/N db 16.4 15.7 14.1 15.5 15.3 14.5 17.9 15.0 16.2 17.0 15.3	dB 15.9 15.2 13.6 15.0 14.8 14.0 17.4 14.5 15.7 16.5 14.8	dB 17.7 17.0 15.4 16.8 16.6 15.8 19.2 16.3 17.5 18.3 16.6	Status LOCK LOCK LOCK LOCK LOCK LOCK LOCK LOCK	Volts 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17.9	m/ 21 21 21 21 21 21 21 21 21 21 21 21
1 ID 11A1 - D2A1 - H2A1 - E2A1 - B2B1 - 3 - G3A1 - 7 - 13 -	MHz 3720.088 4000.056 3790.180 3808.072 3880.052 4120.044 3760.084 4044.512 3840.080 3960.076	MHz 1429.912 1149.944 1359.820 1341.928 1269.948 1029.956 1389.916 1105.488 1309.920 1189.924 1124.676 1069.956	Error MHz F -0.011 -0.008 -0.039 -0.006 -0.022 -0.017 0.014 -0.052 0.015 0.015	M Pol Ty H Dvb H Dvb	od Code pe Rate 5-S 5// S2 8-5// S2 8-3// S2 8-3// S2 8-3// S2 8-3// S2 8-3// S2 8-3// C2 3// C2 3// C2 3// C2 3// C2 3//	Symbol           Rate           Rate           3           3           2           3           3           3           4           2999           4           1250           4           9           22500           4           19510           22500           4           29270           4           4878           30000	Level dbm -29.0 -28.1 -32.1 -33.4 -31.9 -28.6 -27.6 -27.6 -31.6 -27.4 -26.2	IRD SiqQ 100 100 97 100 100 98 100 99 100 100	C/N db 16.4 15.7 14.1 15.5 15.3 14.5 17.9 15.0 16.2 17.0	dB 15.9 15.2 13.6 15.0 14.8 14.0 17.4 14.5 15.7 16.5	dB 17.7 17.0 15.4 16.8 16.6 15.8 19.2 16.3 17.5 18.3	Status LOCK LOCK LOCK LOCK LOCK LOCK LOCK LOCK	Volts 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17.9	m/ 21 21 21 21 21 21 21 21 21 21 21

### Testing of the 3.8m 4 piece sectional antenna

### **Proof of Performance**

Filename : 91W.NOR.3220H Date: 10/03/2013 Time: 05:22:10 Location: FRAN Technician: Notes: Level: dBm FieldGuide: North American V 2.10 Software: 1.24 Mode: TURBO S2 Seria: 1674529 LNB Mode: LO=5.15 3.4-4.2 Regior: NE Continental US Switch: None

### Satellite: 91.0 West / G17

Tran	ŝ_	Dnlink MHz	Freq MHz	Error MHz I	Pol	Mod Type	Code Rate	Symbol Rate		IRD SiqQ	C/N db	Eb/No dB	Es/No dB	Lock Status	LNB Volts	LNE mA
B2A1	-	3769.072	1380.928	-0.006	Н	DvbS2	8-5/6	14400	-33.7	100	15.7	15.2	17.0	LOCK	17.9	210
B2B1		3800.072	1349.928	-0.007	Н	DvbS2	8-3/4	31250	-28.9	99	15.2	14.7	16.5	LOCK	17.9	210
B2C1	-	3888.044	1261.956	-0.023	Н	DvbS2	8-5/6	19750	-31.6	99	14.9	14.4	16.2	LOCK	17.9	210
B2E1	1	4080.040	1069.960	-0.021	Н	DvbS2	8-3/4	30000	-30.3	96	13.5	13.0	14.8	LOCK	17.9	210
B2F1		4133.656	1016.344	-0.015	Н	DvbS2	8-5/6	6960	-32.4	96	13.3	12.8	14.6	LOCK	17.9	210
32G1	-	4160.040	989.960	-0.016	Н	DvbS2	8-3/4	31250	-27.8	99	14.9	14.4	16.2	LOCK	17.9	210
E3B1	ID	3720.056	1429.944	-0.026	Н	DvbS2	8-3/5	28799	-32.3	100	18.2	17.7	19.5	LOCK	17.9	210
3	-	3751.072	1398.928	-0.007	Н	DvbS2	8-5/6	14410	-33.5	100	15.7	15.2	17.0	LOCK	17.9	210
E3A1		3920.048	1229.952	-0.022	н	DvbS2	8-3/4	29999	-28.7	98	14.7	14.2	16.0	LOCK	17.9	210
G3C1		3993.540	1156.460	-0.025	Н	DvbS2	8-5/6	19167	-31.6	98	14.4	13.9	15.7	LOCK	17.9	21
7	-	3840.084	1309.916	0.014	H	Dvb-S	7/8	29270	-25.3	101	15.8	15.3	17.1	LOCK	17.9	210
13		3960.076	1189.924	0.015	Н	DC2	7/8	29270	-23.7	97	14.1	13.6	15.4	LOCK	17_9	210
17	-	4013.572	1136.428	0.014	Н	Dvb-S	1/2	6620	-31.4	95	13.1	12.6	14.4	LOCK	17.9	210
17		4040.056	1109.944	-0.007	Н	DvbS2	8-3/4	31247	-28.4	97	13.8	13.3	15.1	LOCK	17.9	21
21		4115.692	1034.308	0.015	Н	DC2	3/4	19510	-25.5	100	15.7	15.2	17.0	LOCK	17.9	21