

# DH 48" Polar Mount

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

**Performance!**



Saint Paul Neighborhood Network  
St. Paul, Minnesota

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.

Made In The  
**USA**

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	180 lbs	198 lbs
Antenna Weight (sectional)	110 lbs	165 lbs	214 lbs
Crate Dims w/Antenna	62"x40"x66"	76"x36"x78"	79"x36"x81"
Approximate Weight	254 lbs	348 lbs	464 lbs
Mount Weight	224 lbs	224 lbs	224 lbs
Pallet Dims w/Mount	50"x50"x19"	50"x50"x19"	50"x50"x19"
Approximate Weight	230 lbs	230 lbs	230 lbs



\*Antenna sizes are nominal  
\*Custom crating available  
\*Dimensions & weights are approximate

#### 48" Polar Mount Features

#### OPTIONAL:

- Hot Dip Galvanizing
- Non-Penetrating Roof Mount
- Electronics, Feedhorns, LNBS, Cabling
- Half/Full Dish De-icing
- 48" Ring with 8 blocks
- Bronze Bushings at Pivot Points
- 110° of Travel
- 5 1/2" od mast
- 8 Back Braces
- 4 Struts

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)





Satellite

# DH Test Data

Tested with A1 Turbo S2

103  
3220  
4.2m  
DH Ant

## Proof of Performance

Filename : 42NO3220.103H      FieldGuide: North American V 1.99  
 Date: 09/05/2012                Software: 1.19  
 Time: 16:51:39                    Model: TURBO S2  
 Location:                            Serial: 1674529  
 Technician:                        LNB Model: LO=5.150 3.4-4.2  
 Notes:                                Region: NE Continental US  
 Level: dBm                         Switch: None

### Satellite: 103.0 West / AMC1

Tran	Dnlink MHz	Freq MHz	Error	Mod	Code	Symbol	Level	IRD	C/N	Eb/No	Es/No	Lock	LNB	LNB
			MHz Pol	Type	Rate	Rate	dbm	SiqQ	db	dB	dB	Status	Volts	mA
B2A1	3760.040	1389.960	-0.035	Err DvbS2	8-3/4I	29999	-28.9	99	15.0	14.5	16.3	LOCK	17.9	210
5 ID	3800.080	1349.920	-0.010	Err DC2	7/8	29270	-27.1	99	14.9	14.4	16.2	LOCK	17.9	210
7	3840.000	1310.000	-0.086	Err Dvb-S	3/4	26681	-27.4	100	15.5	15.0	16.8	LOCK	17.9	210
7	3840.080	1309.920	0.015	Err Dvb-S	3/4	26681	-27.3	100	15.5	15.0	16.8	LOCK	17.9	210
10	3906.576	1243.424	0.014	Err Dvb-S	3/4	6510	-32.2	96	13.4	12.9	14.7	LOCK	17.9	210
11	3915.072	1234.928	0.015	Err Dvb-S	2/3	4410	-32.6	96	13.5	13.0	14.8	LOCK	17.9	210
10	3920.224	1229.776	0.014	Err Dvb-S	5/6	3140	-34.3	91	12.0	11.5	13.3	LOCK	17.9	210
10	3924.224	1225.776	-0.010	Err Dvb-S	5/6	2734	-35.3	95	12.7	12.2	14.0	LOCK	17.9	210
B2B1	3927.508	1222.492	-0.059	Err DvbS2	Q-3/4	2450	-40.3	95	12.8	12.3	14.1	LOCK	17.9	210
K1A1	3960.052	1189.948	-0.007	Err DvbS2	8-5/6	30000	-27.7	99	15.0	14.5	16.3	LOCK	17.9	210
15	4040.068	1109.932	0.015	Err Dvb-S	3/4	26681	-25.4	101	15.9	15.4	17.2	LOCK	17.9	210
17	4040.000	1110.000	-0.073	Err Dvb-S	3/4	26681	-25.3	101	15.8	15.3	17.1	LOCK	17.9	210
G1A1	4073.568	1076.432	0.000	Err Dvb-S		3000	-33.1		0.0			Unlock	17.9	210
19	4081.068	1068.932	0.015	Err Dvb-S	3/4	7230	-31.6	97	13.9	13.4	15.2	LOCK	17.9	210
B	4089.952	1060.048	-0.006	Err DvbS2	8-2/3	5923	-33.7	99	15.3	14.8	16.6	LOCK	17.9	210
21	4120.000	1030.000	-0.056	Err DvbS2	8-3/4I	30000	-26.8	99	14.9	14.4	16.2	LOCK	17.9	210
21	4120.044	1029.956	-0.013	Err DvbS2	8-3/4I	30000	-26.7	99	14.9	14.4	16.2	LOCK	17.9	210

## Proof of Performance

Filename : 42NO3220.103V      FieldGuide: North American V 1.99  
 Date: 09/05/2012                Software: 1.19  
 Time: 16:51:39                    Model: TURBO S2  
 Location:                            Serial: 1674529  
 Technician:                        LNB Model: LO=5.150 3.4-4.2  
 Notes:                                Region: NE Continental US  
 Level: dBm                         Switch: None

### Satellite: 103.0 West / AMC1

Tran	Dnlink MHz	Freq MHz	Error	Mod	Code	Symbol	Level	IRD	C/N	Eb/No	Es/No	Lock	LNB	LNB
			MHz Pol	Type	Rate	Rate	dbm	SiqQ	db	dB	dB	Status	Volts	mA
2	3740.000	1410.000	-0.097	Err Dvb-S	7/8	29270	-26.2	98	14.5	14.0	15.8	LOCK	17.9	210
2	3740.088	1409.912	0.015	Err Dvb-S	7/8	29270	-26.2	98	14.5	14.0	15.8	LOCK	17.9	210
6	3820.000	1330.000	-0.093	Err DC2	3/4	29270	-25.5	100	17.4	16.9	18.7	LOCK	17.9	210
6 ID	3820.084	1329.916	0.014	Err DC2	3/4	29270	-25.3	100	17.3	16.8	18.6	LOCK	17.9	210
8	3860.068	1289.932	-0.004	Err DvbS2	8-5/6	30000	-27.9	100	15.4	14.9	16.7	LOCK	17.9	210
B2D1	3891.044	1258.956	-0.029	Err DvbS2	8-2/3	9092	-34.8	100	15.5	15.0	16.8	LOCK	17.9	210
B2E1	3913.544	1236.456	0.000	Err Dvb-S		6400	-45.6		0.0			Unlock	17.9	210
12	3940.076	1209.924	-0.010	Err DC2	7/8	29270	-25.0	100	15.6	15.1	16.9	LOCK	17.9	210
13	3980.076	1169.924	0.015	Err Dvb-S	7/8	26666	-24.9	100	17.3	16.8	18.6	LOCK	17.9	210
18	4060.072	1089.928	0.000	Err DC2		29270	-35.6		0.0			Unlock	17.9	210
20	4091.068	1058.932	0.015	Err Dvb-S	3/4	14035	-29.9	98	14.4	13.9	15.7	LOCK	17.9	210
B2I1	4109.044	1040.956	-0.032	Err Dvb-S	3/4	14029	-31.3	96	13.5	13.0	14.8	LOCK	17.9	210
24	4196.064	953.936	0.014	Err Dvb-S	2/3	2894	-34.0	100	16.8	16.3	18.1	LOCK	17.9	210

103  
3220  
4.5m  
DH Ant

## Proof of Performance

Filename : 453220.103HMD      FieldGuide: North American V 1.99  
 Date: 09/07/2012                Software: 1.19  
 Time: 13:45:06                    Model: TURBO S2  
 Location:                            Serial: 1674529  
 Technician:                        LNB Model: LO=5.150 3.4-4.2  
 Notes:                                Region: NE Continental US  
 Level: dBm                         Switch: None

### Satellite: 103.0 West / AMC1

Tran	Dnlink MHz	Freq MHz	Error	Mod	Code	Symbol	Level	IRD	C/N	Eb/No	Es/No	Lock	LNB	LNB
			MHz Pol	Type	Rate	Rate	dbm	SiqQ	db	dB	dB	Status	Volts	mA
B2A1	3760.040	1389.960	-0.037	Err DvbS2	8-3/4I	29999	-28.1	101	15.8	15.3	17.1	LOCK	17.9	210
5 ID	3800.080	1349.920	-0.011	Err DC2	7/8	29270	-26.1	100	15.5	15.0	16.8	LOCK	17.9	210
7	3840.000	1310.000	-0.087	Err Dvb-S	3/4	26681	-26.0	100	16.6	16.1	17.9	LOCK	17.9	210
7	3840.080	1309.920	0.014	Err Dvb-S	3/4	26681	-26.0	100	16.7	16.2	18.0	LOCK	17.9	210
10	3906.576	1243.424	0.015	Err Dvb-S	3/4	6510	-30.7	97	14.0	13.5	15.3	LOCK	17.9	210
11	3915.072	1234.928	0.014	Err Dvb-S	2/3	4410	-31.6	96	13.4	12.9	14.7	LOCK	17.9	210
10	3920.224	1229.776	0.015	Err Dvb-S	5/6	3140	-33.0	94	12.6	12.1	13.9	LOCK	17.9	210
10	3924.224	1225.776	-0.011	Err Dvb-S	5/6	2734	-33.6	96	13.6	13.1	14.9	LOCK	17.9	210
B2B1	3927.508	1222.492	-0.061	Err DvbS2	Q-3/4	2450	-39.1	97	14.0	13.5	15.3	LOCK	17.9	210
K1A1	3960.052	1189.948	-0.013	Err DvbS2	8-5/6	30000	-27.4	100	15.5	15.0	16.8	LOCK	17.9	210
15	4040.068	1109.932	0.014	Err Dvb-S	3/4	26681	-24.3	100	16.8	16.3	18.1	LOCK	17.9	210
17	4040.000	1110.000	-0.075	Err Dvb-S	3/4	26681	-24.3	100	16.8	16.3	18.1	LOCK	17.9	210
G1A1	4073.568	1076.432	0.000	Err Dvb-S		3000	-38.1		0.0			Unlock	17.9	210
19	4081.068	1068.932	0.014	Err Dvb-S	3/4	7230	-31.4	98	14.4	13.9	15.7	LOCK	17.9	210
B	4089.952	1060.048	-0.007	Err DvbS2	8-2/3	5923	-33.3	99	15.2	14.7	16.5	LOCK	17.9	210
21	4120.000	1030.000	-0.057	Err DvbS2	8-3/4I	30000	-25.6	100	15.6	15.1	16.9	LOCK	17.9	210
21	4120.044	1029.956	-0.012	Err DvbS2	8-3/4I	30000	-25.6	100	15.7	15.2	17.0	LOCK	17.9	210

## Proof of Performance

Filename : 453D0.103VMD      FieldGuide: North American V 1.99  
 Date: 09/07/2012                Software: 1.19  
 Time: 13:45:06                    Model: TURBO S2  
 Location:                            Serial: 1674529  
 Technician:                        LNB Model: LO=5.150 3.4-4.2  
 Notes:                                Region: NE Continental US  
 Level: dBm                         Switch: None

### Satellite: 103.0 West / AMC1

Tran	Dnlink MHz	Freq MHz	Error	Mod	Code	Symbol	Level	IRD	C/N	Eb/No	Es/No	Lock	LNB	LNB
			MHz Pol	Type	Rate	Rate	dbm	SiqQ	db	dB	dB	Status	Volts	mA
2	3740.000	1410.000	-0.100	Err Dvb-S	7/8	29270	-25.4	97	14.1	13.6	15.4	LOCK	17.9	210
2	3740.088	1409.912	-0.012	Err Dvb-S	7/8	29270	-25.5	97	14.1	13.6	15.4	LOCK	17.9	210
6	3820.000	1330.000	-0.095	Err DC2	3/4	29270	-24.8	100	17.6	17.1	18.9	LOCK	17.9	210
6 ID	3820.084	1329.916	-0.012	Err DC2	3/4	29270	-24.9	100	17.6	17.1	18.9	LOCK	17.9	210
8	3860.068	1289.932	-0.013	Err DvbS2	8-5/6	30000	-27.9	100	15.7	15.2	17.0	LOCK	17.9	210
B2D1	3891.044	1258.956	-0.031	Err DvbS2	8-2/3	9092	-34.6	100	16.4	15.9	17.7	LOCK	17.9	210
B2E1	3913.544	1236.456	0.000	Err Dvb-S		6400	-33.6		0.0			Unlock	17.9	210
12	3940.076	1209.924	-0.012	Err DC2	7/8	29270	-24.5	100	15.4	14.9	16.7	LOCK	17.9	210
13	3980.076	1169.924	-0.010	Err Dvb-S	7/8	26666	-24.1	100	17.7	17.2	19.0	LOCK	17.9	210
18	4060.072	1089.928	0.000	Err DC2		29270	-34.8		0.0			Unlock	17.9	210
20	4091.068	1058.932	-0.011	Err Dvb-S	3/4	14035	-28.6	100	15.7	15.2	17.0	LOCK	17.9	210
B2I1	4109.044	1040.956	0.000	Err Dvb-S		14029	-39.3		0.0			Unlock	17.9	210
24	4196.064	953.936	0.014	Err Dvb-S	2/3	2894	-34.6	100	16.8	16.3	18.1	LOCK	17.9	210