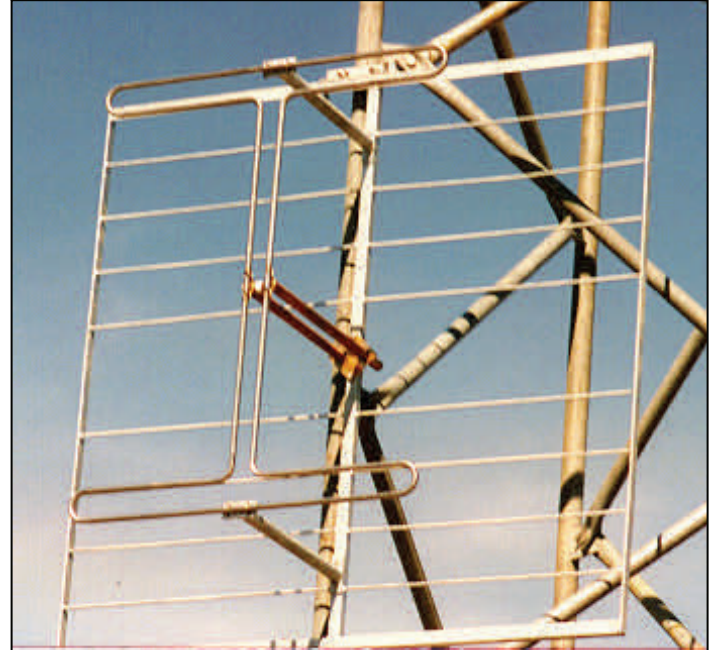




HORIZONTAL DUAL DIPOLE FLAT PANEL ANTENNA

The JAMPRO JHD-HR4 antenna is a half wave spaced dual dipole horizontally polarized flat panel antenna system. Galvanized steel panel construction & stainless steel dipole insures many years of dependable performance. The JHD antenna has been proven to have excellent bandwidth, with typical VSWR of <math><1.05:1</math> on carrier, and <math><1.1:1</math> across the channel. Many standard and custom directional patterns are available to fit any of your coverage requirements.



**Designed for high band VHF
(Ch 7-13) band III (174-230 MHz)**

Typical single channel VSWR <math><1.1:1</math> on channel

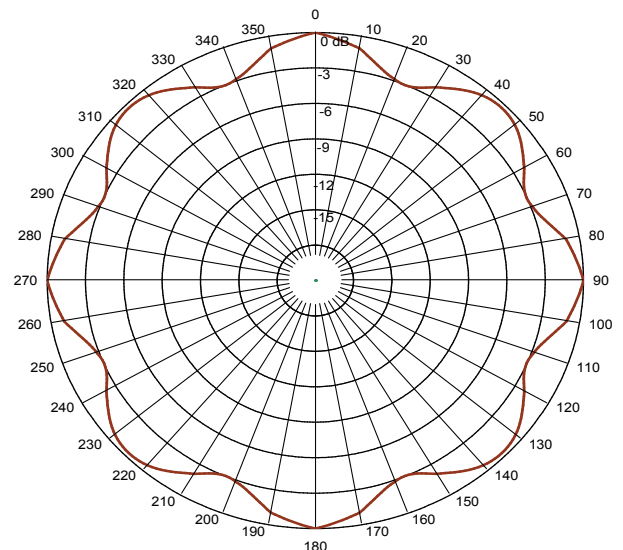
**Omni-directional or custom
directional patterns**

Hot dipped galvanized steel construction

Stainless steel dipoles

**Custom mounting brackets available for
easy installation**

**Single panel gain 7.5 dBd is at mid-band 8.0 dB
Gain at high end of band III**



Standard 4 Around Omni Azimuth Pattern



JAMPRO JHD HR4 BROADCAST ANTENNA					
# Bays	Panels per Bay	Gain (times)	Gain (dBd)	Height (ft)	Projected Area (sq. ft.)
1	1	10	10	9.7	Contact Factory
	2	5	7		
	3	3.3	5.18		
	4	2.5	3.97		
2	1	20	13	20.3	Contact Factory
	2	10	10		
	3	6.6	8.2		
	4	5	7		
3	1	30	14.77	30	Contact Factory
	2	15	11.76		
	3	10	10		
	4	7.5	8.75		
4	1	40	16	41.9	Contact Factory
	2	20	13		
	3	13.3	11.23		
	4	10	10		
6	1	60	17.78	62.5	Contact Factory
	2	30	14.77		
	3	20	13		
	4	15	11.76		
8	1	80	19	85.1	Contact Factory
	2	40	16		
	3	26.6	14.23		
	4	20	13		

All stated gains are Peak gains. Gains do not include losses for feed system, beam tilt or null fill.

Notes:

- Weights and windloads contact factory.
- All input EIA flange, female 50 ohm
- Input N, 7/16 or 7/8 (other type of connectors on request).
- Frequency range one channel in Band III (174-230 MHz).
- Null fill and beam tilt on request.
- Specifications are based on one wave spaced bays. Other spacing available.
- VSWR for individual panels and complete systems typical $\leq 1.1:1$
- Power rating per panel varies with input power
- Total number of frequencies/channels limited only by total input power.
- In an omni-directional configuration typical circularity +/- 1.5 dBor better. Directional patterns available

Options

Options available include FCC-Directionalization, Pattern Measurement Service, beam tilt, null fill, and special mounting brackets.

Non-ionizing Radiation

Since many factors contribute to a station's compliance with the FCC exposure guidelines for radio frequency radiation, JAMPRO Antennas, Inc. cannot accept any responsibility in this matter. The station must examine and determine its status based on each individual situation.

*All specifications are subject to change.