

Paracclipse's Hydro Antennas

Paracclipse manufactures a wide variety of satellite antennas to meet your needs

HYDRO 7.5' (2.3m) & 6' (1.8m)

MULTIPLE MOUNT OPTIONS

Outstanding Reception From Any View

Good looks, compact size and picture-perfect reception make the Paracclipse Hydro an excellent choice anywhere - especially in urban and suburban settings where antenna size may be restricted. These precision hydroformed antennas often outperform larger mesh antennas and provide years of trouble-free reception.



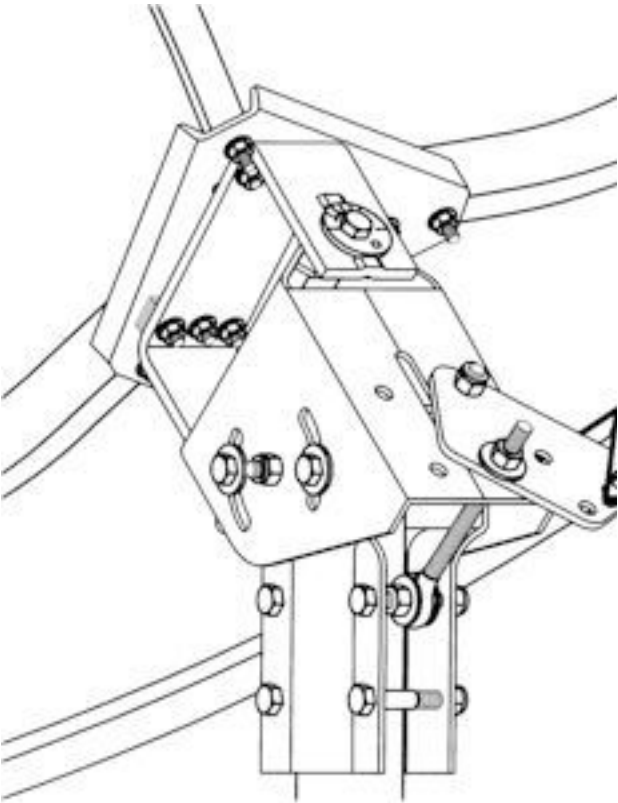
Precision Performance

The Hydro reflectors are precision molded through intense water pressure. These hydroformed paraboloids are perfect - free of surface deformities, ripples, flat spots or other irregularities. The result is exceptionally distortion-free performance: C-band & Ku-band (analog and digital) reception that matches or exceeds that of larger mesh antennas.

In addition, the Hydro's one-piece construction from heavy-gauge aluminum makes it one of the strongest antennas you can buy. It retains its structural integrity and parabolic shape better than any multi-piece antenna.

Polar Mount (VP)

A heavy duty, preassembled, fully-adjustable polar mount using a linear actuator. Oil impregnated bronze bushings on pivot points. Mount allows 120° azimuth travel with an 18" actuator.



VP Mount

The Paraclipse Hydro's exclusive design features:

- One piece, hydroformed reflector.
- Uniform reflector surface which results in extremely low side lobes.
- Heavy-gauge aluminum or galvanealed steel antenna adds structural strength.
- All steel parts are sealed and protected with a baked-on, powder-coat finish.
- Powder-coat painted reflector, smoke-blue color standard, tan-color optional.
- Steel-to-aluminum (mount-to-reflector) contact points insulated to prevent corrosion.
- Self-aligning, three-pole feedhorn support with preset focal distance.

Exceptional Signal Reception

Independent laboratory range test produced symmetrical reflective patterns on both C-band and Ku-band. This illustrates the precise parabolic surface provided by Paraclipse's exclusive hydroforming process. The Hydro offers exceptional satellite signal identification, even from 2° spaced satellites.

Specifications		
	6' (1.8m)	7.5' (2.3m)

C-band Gain	35.9 dB	37.8 dB
Ku-band Gain	44.9 dB	47.2 dB
C-band Efficiency	68%	60%
Ku-band Efficiency	64%	62%
2° Spacing Approved	Yes*	Yes
C-band 3dB Beamwidth	2.9°	2.2°
C-band First Side Lobe	-26.4 dB	-25.3 dB
C-band Antenna Noise Temperature @ 45° Elevation	48° K	41° K
Ku-band Antenna Noise Temperature @ 30° Elevation	36° K	28° K
F/D	0.335	0.375
Focal Point	23.125" (59cm)	31.8" (81.5cm)
<p>*With opposite polarization of satellites.</p> <p>Specifications are determined by range test or engineering computation methods.</p>		

HYDRO 5' (1.5m) & 4' (1.2m)

MULTIPLE MOUNT OPTIONS

Improved and Expanded Satellite Reception From High Powered Digitized Satellite Signals

Rain fade and lost reception for those living on the outer edges of digital satellite reception can now be a thing of the past! Enjoy quality reception with the NEW GENERATION of Hydroformed antennas. Smaller reflectors, made of Galvanealed steel supported by a range of mounts from which to choose, help carry on the tradition of quality Paraclipse products at affordable prices.



A New Generation of Hydros

Paraclipse introduces a new line of Hydroformed antennas and mounts to meet the challenges of high powered satellites and digital signals. Galvanealed steel reflectors, manufactured into perfect paraboloids and supported by strong, lightweight Polar and AZ-EL mounts, add up to picture perfect reception.

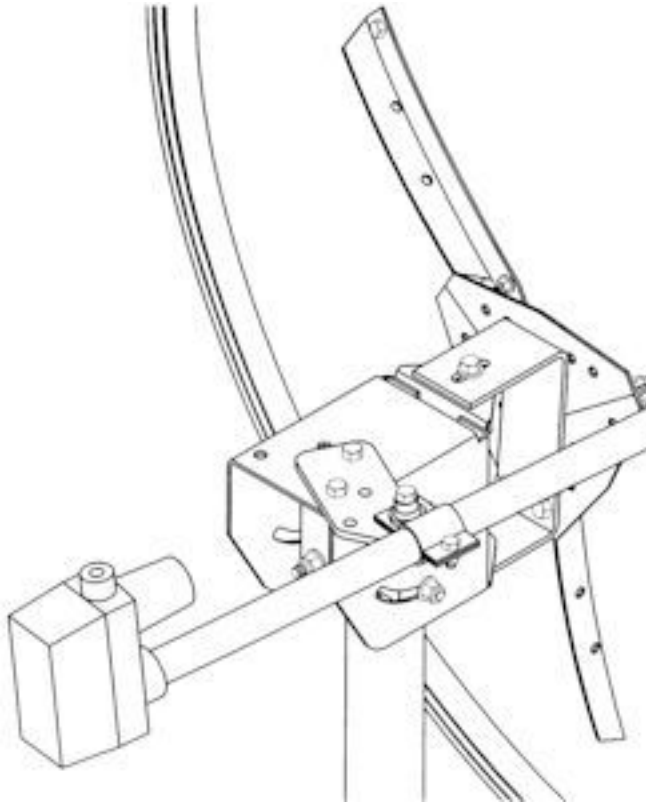
These antennas, the smallest ever made by Paraclipse, offer the necessary gain and efficiencies needed to overcome rain fade and lost signals in fringe areas of reception.

This new generation of Hydro antenna will help to expand usage of Paraclipse antennas in areas not serviced in the past. The Hydro's one piece design allows for fast, easy installation.

Quality Mounts for a Quality Reflector

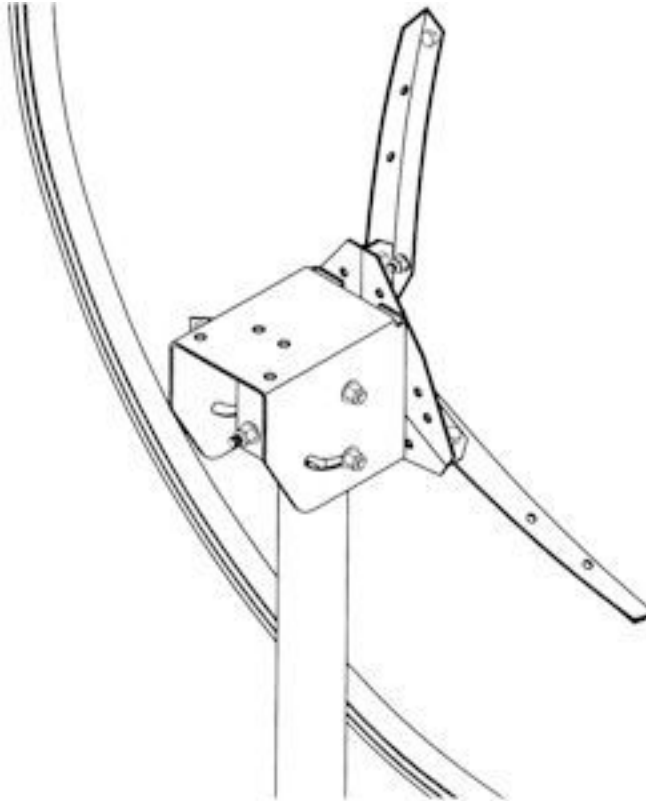
Polar (SP) Mount

A maximum strength, lightweight, steel polar mount. Design allows for use with less expensive ground base pipe with smaller o.d. Mount offers 120° azimuth travel with a 12" actuator.



AZ-EL (SP) Mount

Lock onto a single satellite for unsurpassed picture quality. AZ-EL mount is constructed of lightweight steel, protected with baked-on powder-coat finish.



The Paraclipse Hydro's exclusive design features:

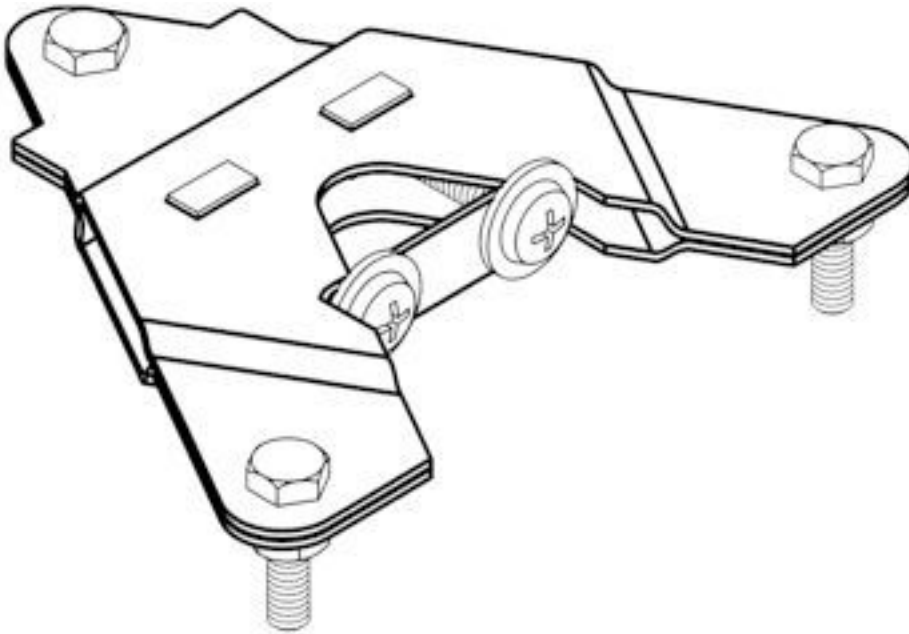


-
- **Extra Strength**
- A newly constructed multi-ribbed rim design adds additional strength to the reflector, assuring parabolic accuracy and unsurpassed reception.
- One-piece, formed reflector.
- Reflector constructed from Galvaneal steel (a proven product used in the automotive industry to guarantee against rust and product failure).
- Choice of strong, lightweight Polar or AZ-EL mounts.
- Six step powder coat finish with a sealed baked-on process ensuring years of protection against paint failure.
- Self-aligning, three-pole feedhorn support with preset focal distance.

Optional features:

- Choice of smoke-blue or tan color.

- Feed cover.



-
- **Ku-band Adapter Feed Plate**
- An optional adapter feed plate allows you to use existing feed supports for both C-band and Ku-band signals. Feed plate is adjustable for use with a wide variety of feeds.
-

Specifications		
	4' (1.2m)	5' (1.5m)
C-band Gain	32.8 dB	34.8 dB
Ku-band Gain	42.0 dB	44.0 dB
C-band Efficiency	68%	68%
Ku-band Efficiency	68%	68%
F/D	0.40	0.39
Focal Point	18.90" (48cm)	23.10" (59cm)
Base pipe	2" schedule 40 [2.38" (6.03cm) o.d.]	2" schedule 40 [2.38" (6.03cm) o.d.]

Specifications are determined by engineering computation methods.

Warranty

All Paraclipse antennas have a one-year limited warranty. Please see warranty policy for details.

© Paraclipse, Inc., 2000