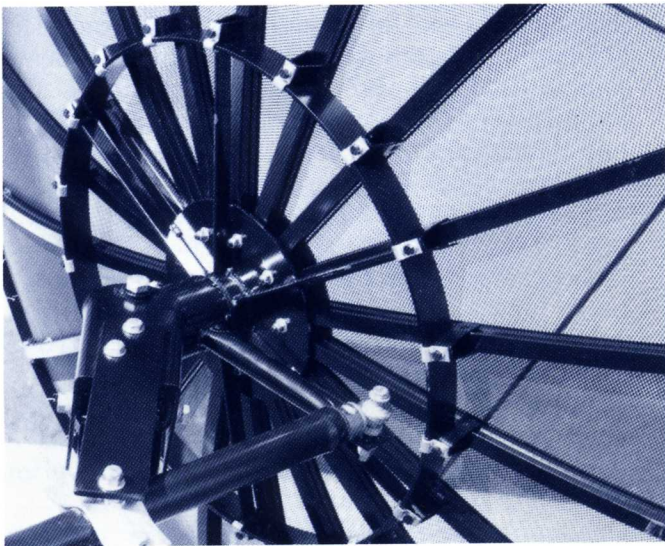


# THE SX12, FEATURING...

## Craftsmanship

*Orbitron craftsmanship has produced a sturdy and reliable high gain antenna, the SX12. A high standard of craftsmanship is evident in every one of the following features:*

**Parabolic stressed frame construction** is fundamental to the design and construction of the SX12. After the antenna ribs are fastened to the perimeter ring the hub bolts are tightened, resulting in increased tension on the ribs. This tension forces the antenna into a rigid, true parabola.



*This view illustrates the strength and integrated design of the mounting and support structure of the SX12. Shown here are the polar mount, hub, back support ring and rib clips.*

The steel "quick hub" mount and back support ring provide sturdy support for the antenna's 18 extruded aluminum ribs.

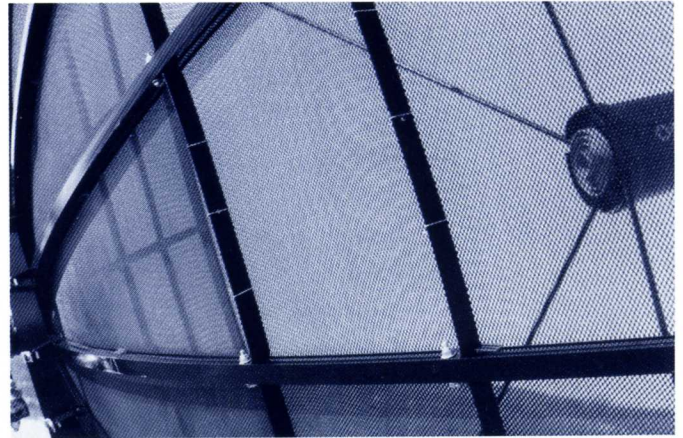
"Spinclination", an Orbitron innovation, affords precise declination setting. This is done by rotating the antenna to the correct latitude setting on the polar tube declination scale.

Die forming of expanded aluminum mesh provides double curvature mesh panels which help to assure the parabolic accuracy necessary to provide sharp C/Ku reception.

The quad leg feed support affords both precise centering of the feed horn and greater antenna strength.

The mesh-lock rib design used on this and other SX series antennas forces the mesh against the top of the rib groove for better mesh retention. Aluminum clips then snap into the bottom of the mesh groove to lock the mesh in place.

Rib clips clamp the ribs to the steel back support ring. This is another guarantee of antenna stability, durability and accuracy.



*This profile view of the antenna shows mesh clips in place while J-hooks anchor the mesh to the mesh curves, two of which are bolted between each rib.*

Two concentric mesh support rings are formed by individual mesh curves bolting between the ribs. These curves provide anchors for the mesh panels and add strength and rigidity to insure that the mesh maintains a true parabola.

Built-in rib connectors are located in the end of each rib. These encapsulated square nuts speed assembly. The use of a single  $\frac{5}{16}$ " bolt connection instead of sheet metal screws at the perimeter-rib connection is an important factor in the strength and accuracy of the Orbitron antenna.

A baked-on black powder coat finish is used on all parts of the SX12. This coating offers excellent protection from rust and corrosion under most weather conditions.

The SX12 is UPS shippable. This provides the convenience of next day delivery and low UPS rates.

A five year limited warranty covers defects in materials and workmanship.

An optional horizon-to-horizon mount is available for the SX12. This mount is capable of interfacing with all popular receivers and features  $\pm 0$  to .14 degrees pointing accuracy. The mount has snow dumping capability and won't freeze up in winter.

An optional special elevation kit is available for the SX12. This kit allows the international customer to track unstable and inclined orbit satellites. The kit is available in a motorized or automatic version.

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