

**C-, INSAT C-, and Ku-Band
Fast installation, interchangeable feeds**

ValuStar™ 1.2m - 3.6m Earth Station Antennas

ValuStar™ antennas from Andrew Corporation are small-diameter, superior quality, earth station antennas for professional services where reliability and durability are essential. They are ideal for broadcast distribution applications.

ValuStar antennas are available in sizes from 1.2 to 3.6 meters and feature an interchangeable, high performance, dual-polarized receive only feed system that provides optimum gain.

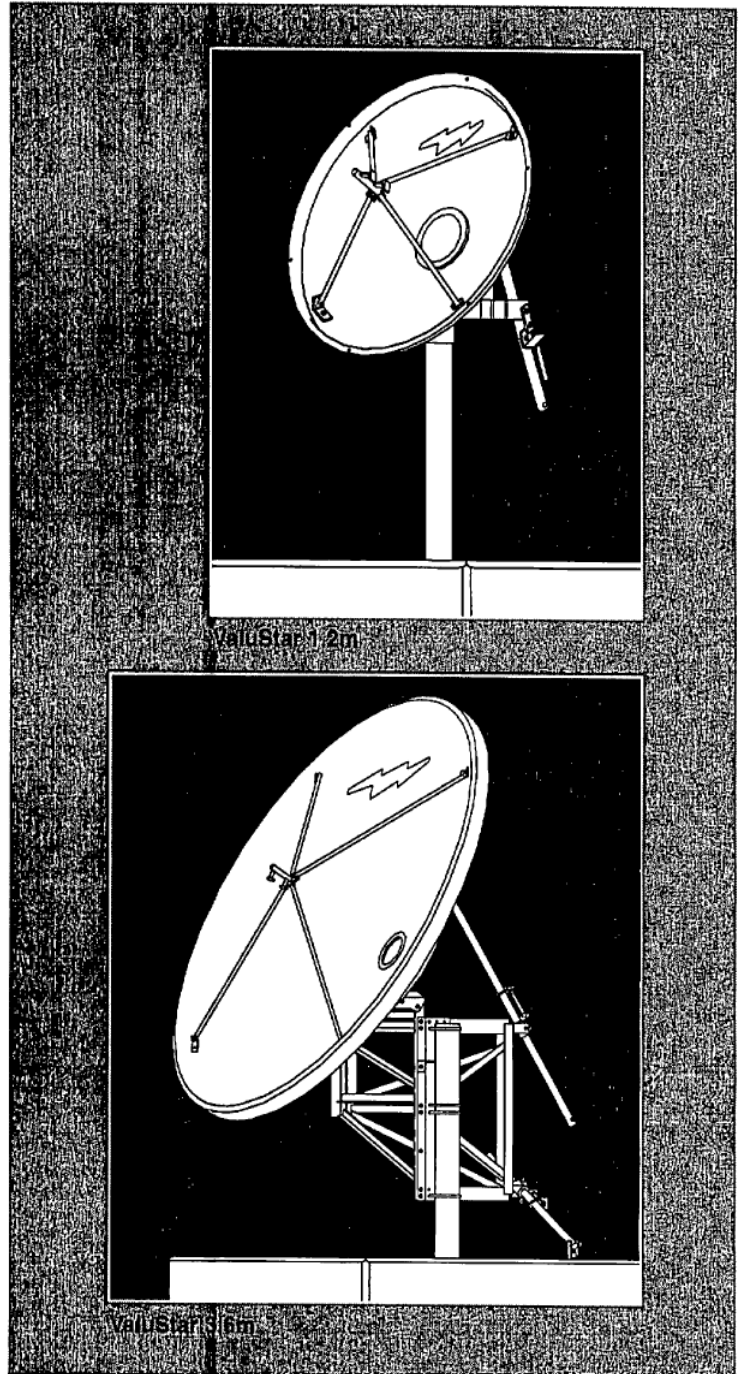
To reduce overall project costs and allow local product manufacture and labor content, the basic antenna is provided with a high-quality azimuth/elevation mount. This mount can be connected to either an Andrew provided (vertical) pipe PIPE [], or a customer provided (vertical) pipe, and can be held in the vertical position by casting it into a concrete foundation. An optional mount MNT [] can be offered to bolt to a foundation or other suitable mounting structure.

The antennas use rugged, high accuracy, spun aluminum reflectors which are conversion coated and painted white.

Hot-dip galvanizing of the steel mount parts and careful choice of all materials ensure reliable performance and long life in adverse environments.

Features:

- *C 3.625-4.2 GHz
UC 4.5- 4.8 GHz
Ku 10.7-12.75 GHz*
- *Dual Polarized, High Gain*
- *125 mph (200 km/h) Wind Survival in any position*
- *Anti-icing Options*
- *Fast, Simple Installation*



ANDREW®

Specifications

Antenna Type	ES12			ES18			ES24			ES30			ES36		
Diameter, meters	1.2			1.8			2.4			3.0			3.6		
Gain, dBi with 2 port combiner	30.7			34.3			37.0			38.8			39.6		
3.625	31.4			35.0			37.7			39.5			40.3		
4.000	31.8			35.4			37.8			40.0			41.3		
4.200	32.4			36.0			38.7			40.5			41.9		
4.500	32.7			36.3			39.0			40.8			42.2		
4.650	33.0			36.6			39.3			41.1			42.5		
4.800	40.0			43.6			46.3			48.2			49.4		
10.70	40.2			43.8			46.5			48.4			49.6		
10.95	40.8			44.4			47.2			49.0			50.2		
11.95	41.6			45.1			48.0			49.8			50.9		
12.75	1.3			1.3			1.3			1.3			1.3		
VSWR, maximum	30			30			30			30			30		
Cross Polar Discrimination (linear), dB	1.3			1.3			1.3			1.3			1.3		
Voltage Axial Ratio (circular)	4.7 4.0 1.7			3.1 2.7 1.0			2.4 2.0 0.75			1.9 1.6 0.60			1.6 1.3 0.50		
3dB Beamwidth, degrees	C-Band 2-Port Linear/Circular			C-Band 2-Port Linear/Circular			UC 2-Port Linear			C-Band 2-Port Linear			Ku-Band 2-Port Linear		
ES12 - Noise Temperature, K	42K			36K			43K			37K			58K		
at 10 degrees Elevation	33K			29K			34K			30K			49K		
at 30 degrees Elevation	29K			25K			30K			26K			45K		
at 50 degrees Elevation	C-Band 2-Port Linear/Circular			C-Band 2-Port Linear/Circular			UC 2-Port Linear			C-Band 2-Port Linear			Ku-Band 2-Port Linear		
ES18 - Noise Temperature, K	36K			31K			37K			32K			50K		
at 10 degrees Elevation	29K			24K			30K			26K			42K		
at 30 degrees Elevation	25K			20K			26K			21K			38K		
at 50 degrees Elevation	C-Band 2-Port Linear/Circular			C-Band 2-Port Linear/Circular			UC 2-Port Linear			C-Band 2-Port Linear			Ku-Band 2-Port Linear		
ES24 - Noise Temperature, K	25K			18K			26K			28K			35K		
at 10 degrees Elevation	18K			14K			19K			15K			26K		
at 30 degrees Elevation	14K			11K			15K			12K			22K		
at 50 degrees Elevation	C-Band 2-Port Linear/Circular			C-Band 2-Port Linear/Circular			UC 2-Port Linear			C-Band 2-Port Linear			Ku-Band 2-Port Linear		
ES30 - Noise Temperature, K	29K			22K			30K			23K			41K		
at 10 degrees Elevation	22K			18K			23K			19K			32K		
at 30 degrees Elevation	18K			14K			19K			15K			28K		
at 50 degrees Elevation	C-Band 2-Port Linear/Circular			C-Band 2-Port Linear/Circular			UC 2-Port Linear			C-Band 2-Port Linear			Ku-Band 2-Port Linear		
ES36 - Noise Temperature, K	29K			22K			30K			23K			41K		
at 10 degrees Elevation	22K			18K			23K			19K			32K		
at 30 degrees Elevation	18K			14K			19K			15K			28K		
at 50 degrees Elevation															

All of the above models include an az/el mount that interfaces to a customer-provided pipe or the MNT series of pipe.

Antenna Type	ES12			ES18			ES24			ES30			ES36		
Survival Wind Rating, mph (km/h)	125 (200)			125 (200)			125 (200)			125 (200)			125 (200)		
Mount Adjustment Range															
Elevation, degrees															
Coarse	0-90			0-90			0-90			0-90			0-90		
Fine	± 7.5			± 7.5			± 7.5			± 7.5			± 7.5		
Azimuth, degrees															
Coarse	360			360			360			360			360		
Fine	± 7.5			± 7.5			± 7.5			± 7.5			± 7.5		
Net Weight, lb (kg)	122 (55)			136 (62)			616 (280)			682 (310)			1067 (485)		
Standard Reflector															
Vertical Configuration	One Piece			One Piece			One Piece			Two Piece			Two Piece		
Mounting Pipe Size Needed, Nom.	4.5"			4.5"			6.625"			6.625"			6.625"		
Surface Anti-Icing options:															

Antenna reflector surface anti-icing systems are available to prevent snow and ice from forming that would otherwise accumulate on the antenna reflector and affect the signal quality. These systems heat a 360 degree region of the reflector and come supplied with a precipitation sensing device, a temperature sensing control unit and all inter-connecting cables. In addition, a dish centre heater is available, for use where ice and snow conditions may be severe.

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