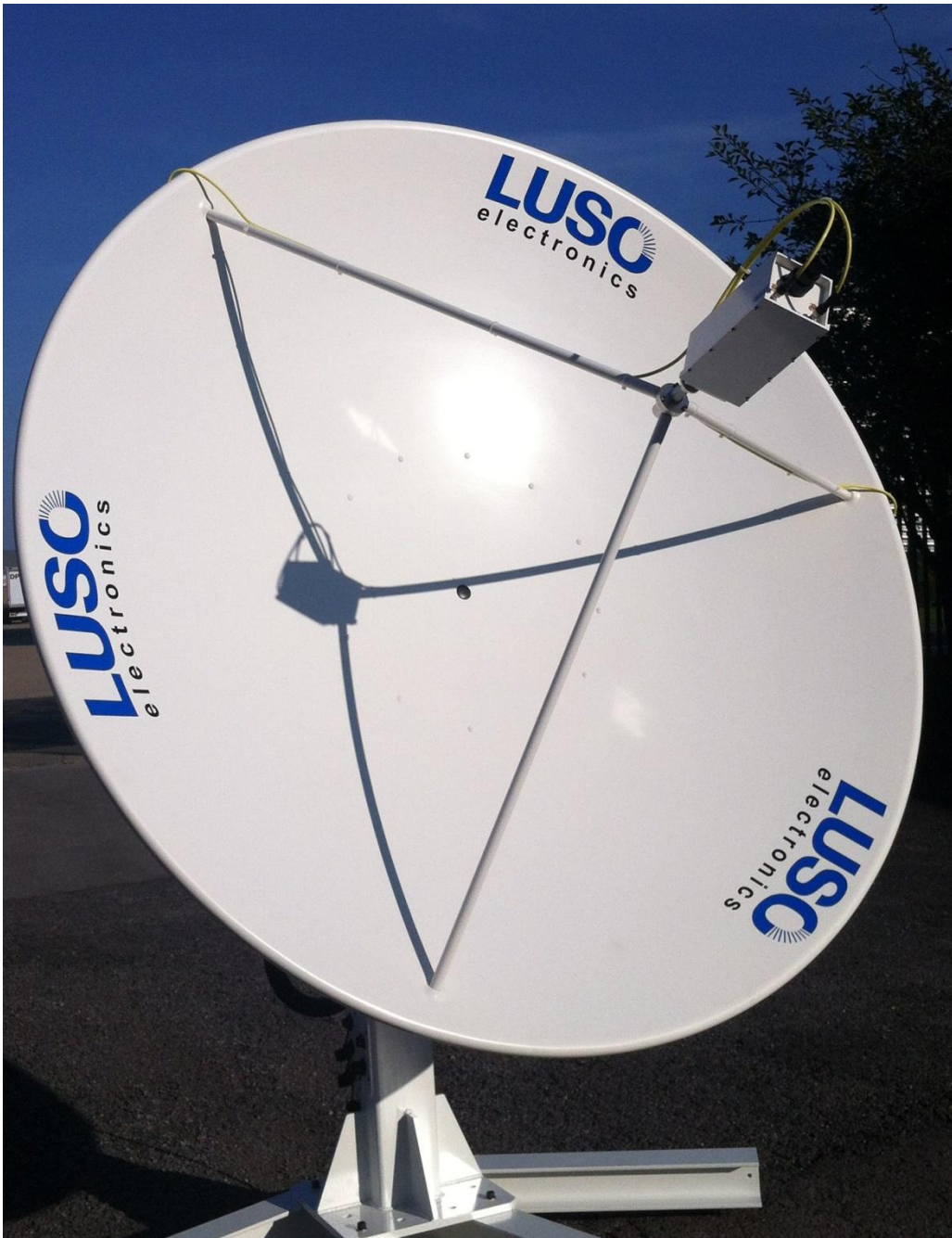


1.8M KA BAND RECIEVE ANTENNA



This motorised platform provides robust reception capacity in all conditions while maintaining a compact form factor and allowing easy installation.

The antennas are available in 4 variants. Fully fixed, manually point able. Motorised and full tracking. A full range of ancillary components is available.

Luso will normally be able to deliver the antennas from stock. We offer complete installation and commissioning, installing the 5-piece motorized system is normally completed in one day, about one-third of normal installation time for other motorised antennas. Customers can opt for a fixed installation in the first instance then upgrade easily to a full tracking one at a later date. The modular design also simplifies other changes that may be needed during the life of the installation

The mounting pole is is heavy duty box section for maximum rigidity with the option of non penetrating mounts, cast in-place mounts or a bolt-down tripod..

Controller options allow tracking of inclined orbit satellites as well as a range of other features Construction is from heavy section steel, hot dip galvanized for lifelong protection, with high accuracy slewing drives and auxiliary bearings. The antenna is aluminium with a polyester powder coat finish

TECHNICAL SPECIFICATION

Antenna diameter	1.8m prime focus
Mid Band Gain at: 18 ghz 20 ghz 22ghz	48 dB 49dB 50dB
VSWR	1:1.5 or better
Operational frequency range	Ka Rx band 17.2-22.2 GHz
Polarity	LP/CP,easily swappable
Pointing accuracy	within 0.1 degrees az/el, 1 degree polarisation
Weights -head antenna	~120kg 30 kg
Wind load capabilities	Operational to 55mph, survival 125mph
Rain (Operational)	12mm per Hour
Temperature (Operational)	-40 to +55 deg C
Atmospheric	Coastal and Industrial Areas
Solar Radiation	360 BTU/h/ft2
Antenna de-ice	Optional
Antenna Noise Temperature	
5deg Elevation	165K
10deg Elevation	134K
20deg Elevation	111K
40deg Elevation	97K
Cross Pol Isolation	28dB
Pattern Beamwidth	
-3dB	0.58deg
-15dB	1.30deg
Elevation Movement	0-90 deg
Azimuth Movement	+/-130 deg

Polarization Movement

+/- 90 deg

CONTROLLER TECHNICAL SPECIFICATION

Tracking Algorithms	NORAD tracking based on downloaded TLE's Step tracking using optional external beacon receiver
Antenna Selection	Select from automatically updated antenna list Manually enter antenna location
Slew Speed	1deg per Sec for Az/EI 5deg per Sec for Pol
Controller Interface Front Panel Web RC&M	High contrast 40x8 character display Integral web server for connection to PC/ Tablet Fully featured remote control protocol
Electrical Connections	Ethernet, for connection to PC or internet Serial for modem connection Emergency stop loop
Size	19" 2U rack mount 400mm deep
Weight	7kg

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