



1.2MT FLYAWAY MOTORIZED ANTENNA

The solution developed by Italspazio Mechanical Design department provides high gain and exceptional pattern characteristics with Ku band feed and it is ideal for receiving from GEO satellite.

The 1.2 mt antenna is a rugged, reliable antenna system that **operates at Ku band frequencies** with high efficiency and at the same time successfully with stands environmental effects. **Antenna consists** of main reflector, segmented in **6 pieces to reduce shipping volume** and to facilitate transport with No. 2 - Flightcase, with 2-ports feed assembly and motorization sub-system for Az/El axis.

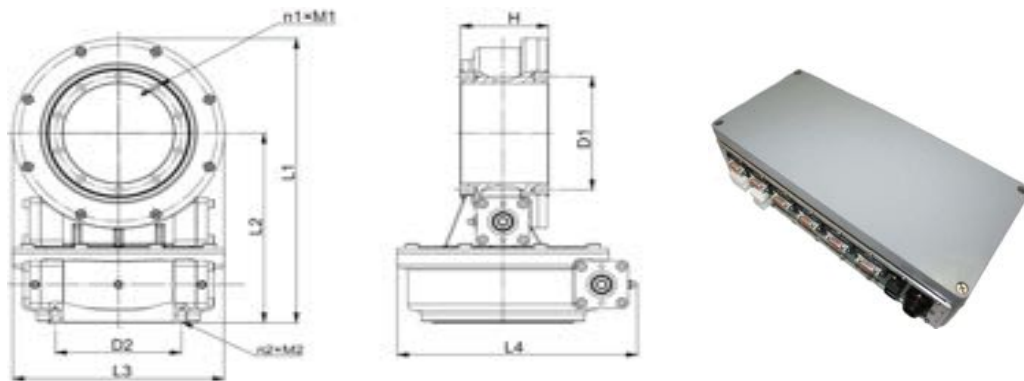
This motorization sub-system will be placed on a flight case basement mount with Elevation over Azimuth configuration with fine adjustment on each axis.

The system has an emergency stop for safety intervention and allow, in case of ACU fault, to the operator to move manually all the mechanical sub-system.

The hot-dipped galvanized finishes for the steel mount, maintains pointing accuracy and ensures durability and reliability.

The antenna can also be provided with the following **OPTIONS**:

- High performance LNA/LNBs
- Full RF chain with LNA, Up/Down converters
- Uplink Power Amplifiers
- Installation Manuals



ISO 9001:2015



ELECTRICAL SPECIFICATION

Type	1.2m flyaway	
	Ku-Band	
Operating Frequency. GHz	Receive	Transmit
	10.95 - 12.75	13.75 - 14.5
Gain, Mid-band, dBi	41.5	43.0
Polarization	Linear	
Beam width	1.4°	1.2°
Power Capability		1KW
Cross Polarization Isolation, dB	30	30
VSWR	1.25	1.25
Feed Interface	WR-75	WR-75
Feed Insertion Loss, dB	0.2	0.3
Isolation, Tx to Rx, dB	85	
First Sidelobes		

MECHANICAL SPECIFICATION

Antenna Diameter	1.2m
Antenna Type	Off-set
Mount Type	El. over Az.
Surface Accuracy (RMS)	≤0.5 mm
Antenna Movement Range	
Azimuth (motorized)	± 110°
Elevation (motorized)	0° - 90°
Polarization (manual)	± 90°
Drive speed of Az/El axis	0.4° s
Weight	55 KG

ENVIRONMENTAL SPECIFICATION

Operation Wind	40 Km/h
Survival Wind	80 Km/h
Temperature	-40° up to +50°
Relative Humidity	100%
Solar Radiation	1000 Kcal/h/m ²

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