

ERA 1,2m segmented FlyAway antenna on the low-profile tripod

Reflector Era – Cobham 12Kus model
1.2 m across-flats four-piece segmented carbon-fiber and aluminum sandwiched “Diamond” shaped reflector with feedboom and feed.

Optics & Feed Offset, Prime focus,
2-port linear

Positioner & Drive mechanics Azimuth travel $\pm 30^\circ$ fine, 360 coarse
Elevation travel 5-85° fine

Low-profile heavy-duty aircraft aluminum tripod

Dry bushings leg stowing & self securing mechanism

Dry slide bearing azimuth turn-table and elevation mechanisms

Stainless steel trapezoidal screw manual actuators for azimuth and elevation

Stainless steel ball-bearing leveling feet

Manual rotation of the feed, $\pm 90^\circ$ fine



12KuS antenna RF data:

	Band & Gain	Cross-polarization	Isolation	VSWR
Tx	13.75–14.5 GHz 43.6 dBi at W/G output of OMT (14.0 GHz)	<-35 dB within 0.3° of bore sight	>40 dB excluding transmit reject filter	<1.3:1
Rx	10.95–12.75 GHz 42.2 dBi at W/G output of filter (11.7 GHz)	<-35 dB on bore sight <-25 dB within 0.3° of bore sight	>35 dB >70dB with transmit reject filter	<1.3:1

Eutelsat / Intelsat compliant sidelobe envelope, confirmed Eutelsat / Intelsat DSNG stations registration experience.

Flight cases:

	Netto weight	Brutto weight in flight case	Flight cases dimensions
Polycarbonate with extruded aluminum edges enforcement and inside shaped foam locations, Soft-fastened locations for 48” flex-twist waveguide with quick-connect flanges	Reflector 14 kg	Approx. 20 kg	680(L)x590(W)x690(H) mm
	Tripod, positioner, feedboom and feed 27 kg	Approx. 40kg	1450(L)x520(W)x420(H) mm

Environmental data:

Wind speed (survival) 18m/s

Temperature -40° to +60°C

Rainfall <100 mm/hour, Snow <50 mm/hour

Relative humidity <100%

Options:

Waveguides and quick-connect flanges, variety of LNB/LNA

Remote manual rope drive of the polarization

Hardigg&Peli or Zarges flight cases

The tripod and positioner can be purchased separately and adapted for customer's reflector.