



DESCRIPTION

The SWE-DISH FA120KS Fly-Away system is a 1.2 m (47 inch) motorized antenna designed for worldwide transmit and receive operation in Ku-band, with X- and Ka-band upgradeability. This Fly-Away antenna is designed to meet robust mission critical requirements, easy transport and one operator quick deploy and use. The sturdy construction, advanced communications capabilities and easy operation enable fast moving field groups to stay solely focused on their mission.

EASY OPERATION

This one-button start portable satellite terminal provides the ultimate support for operators with minimal or no satellite communications training. The intuitive PC GUI will guide the operator step by step through deploy, communication and to stow. The smart design and simple operation makes it possible to deploy and assemble the antenna system by one single person in less than 10 minutes.

EXCELLENT ANTENNA PERFORMANCE

This Fly-Away antenna consist of a segmented elliptical reflector and feed arm mounted transceiver with sub-reflector. The design result in a compact antenna system with superior stiffness, high performance, and low profile.

The unique shape of the accurate elliptical main- and sub-reflector provide outstanding antenna performance designed to meet INTELSAT and EUTELSAT requirements with high gain, low sidelobes, high cross-pol discrimination and high port-to-port isolation.

SWE-DISH CUTTING EDGE DESIGN

The system combines the benefits of simple, one-person operation with exceptional technical performance. The new FA120KS Fly-Away carries on the legacy of the highly successful SWE-DISH satellite antenna product range.

KEY FEATURES

- SWE-DISH cutting edge design
- From case to contact in under 10 minutes – easy one-man operation with auto deploy, auto stow and fully automatic point-and-shoot antenna control
- Easy to set up - no tools required for assembly or deployment
- Outstanding low loss RF feed system mount
- Internal GPS receiver, compass and inclinometer
- Compliant to military standards – constructed of rugged materials and rigorously tested to surpass the toughest conditions and standards. Compliant with MIL-STD-810F environment
- Excellent antenna performance – high gain, low sidelobes, excellent cross-pol discrimination

DECEMBER 2008 VERSION 1.1

SPECIFICATIONS: SWE-DISH® FA120 FLY-AWAY SYSTEM

ANTENNA PERFORMANCE

Antenna aperture	1.2 x 0.84 m (47.2 x 33.1 in) Gregorian offset antenna
Antenna positioning	Automatic positioning through GPS, electronic compass and inclinometer Manual override on all three axis

TRANSMIT PERFORMANCE

System without amplifier

Transmit frequency	13.75 – 14.50 GHz
Tx Gain @ midband	41.6 dBi

System with 6W P1dB SSPB

Transmit frequency	14.00 – 14.50 GHz, Option: 13.75 – 14.50 GHz
EIRP	49.9 dBW

RECEIVE PERFORMANCE

Receive frequency	10.95 – 12.75 GHz (3 LNBS with LO 10.00/10.75/11.30 GHz)
G/T @ 20° elevation	21 dB/K @ 11.8 GHz
Cross Polarization Discrimination	>30 dB on bore sight

ANTENNA TRAVEL RANGE

Azimuth range	± 210° in 0.1° step
Elevation range	10° – 90° in 0.1° step
Polarization range	190°
Polarization	Linear

ENVIRONMENTAL PERFORMANCE

Operating temperature	-15° C to +50°C (5° F to +122° F)
Storage temperature	-40° C to +70°C (-40° F to +158° F)
Operational wind speed	Max 11 m/s (25 mph) free standing unit Max 22 m/s (50 mph) anchored unit
Operational altitude	Max 3,000 m (9,850 ft)
Rainfall	Max 100 mm (4 in) rain per hour

PHYSICAL

Sealing class	IP65
Size (app)	1090 x 895 x 527 mm (42.9 x 27.3 x 20.2 in) Total volume of FA120KS Fly-Away case: 0.5 m ³ (13.7 cubic feet)
Weight (app)	70 kg (155 lb) (without amplifier) 72.6 kg (160 lb) (with amplifier) 1 RU Controller: 4.1 kg (8.8 lb)
Color	Desert Tan, Options: Green or Silver

POWER

DC supply to terminal	+48 V DC to antenna base.
DC Power Drain	6 A @ 48 V DC Maximum 350W

Specifications are subject to change without notice, and this datasheet will not form part of any contract.