

PRODUCT
SPECIFICATIONS

Detail Photo

(on right)

Rear view with feed assembly
and support arm
attached



1.0 Meter Fly Away Receive Transmit Antenna System

Constructed of light weight carbon fiber, the reflector, feed support and tripod are easily carried by one person via three compact soft cases.



ASC Signal Corporation introduces the 1.0 meter fly away receive transmit antenna. This antenna is engineered to adapt to environments and applications that require high mobility and rapid deployment. The light weight modular system design is perfectly suited for emergency telecommunication services and front line military communication.

Constructed of light weight carbon fiber, the reflector, feed support and tripod are easily carried by one person via three compact soft cases. Weighing approximately 10 kg each, the 1.0 meter fly away antenna system is transportable by light air craft, helicopter or commercial airline. An optional tourist style suitcase storage system is also available.

This 1.0 meter antenna system offers manual or fully motorized 3 axis positioning.

The motorized version includes a +12 VDC power supply that is capable of operation from a standard automobile cigarette lighter. Both versions provide bore sight polarization adjustment for optimum cross pole performance on all satellites.

When combined with the GigaSat STC 100 antenna controller, flux gate compass, GPS system and a standard inclinometer, this antenna automatically points at and acquires any geostationary satellite without additional user intervention.

- Constructed of durable carbon fiber
- Exceeds Intelsat and Eutelsat recommended specifications
- Available with fully automated geostationary satellite acquisition

SPECIFICATIONS

MODEL MIL-10FA 1.0 Meter Fly Away Receive Transmit Antenna System

Electrical Performance

Bands	Transmit	MIL-10FA-80	7.90 to 8.40 GHz
		MIL-10FA-140	13.75 to 14.50 GHz
		MIL-10FA-180	17.30 to 18.40 GHz
		MIL-10FA-300	27.50 to 31.00 GHz
Receive	MIL-10FA-80	7.25 to 7.75 GHz	
	MIL-10FA-140	10.70 to 12.75 GHz	
	MIL-10FA-300	19.20 to 21.20 GHz	
3 dB Beamwidth (Transmit)			<1.8° at 13.75 GHz
Transmit Power			50 W to 1 kW
Off Axis Transmit Gain			< 29-25 Log Ø dBi
VSWR			1.3:1
Gain	Transmit	MIL-10FA-80	38.0 dBi Mid Band
		MIL-10FA-140	42.0 dBi Mid Band
		MIL-10FA-180	43.5 dBi Mid Band
		MIL-10FA-300	48.0 dBi Mid Band
Receive	MIL-10FA-80	37.0 dBi Mid Band	
	MIL-10FA-140	40.0 dBi Mid Band	
	MIL-10FA-300	44.5 dBi Mid Band	
Noise Temperature	Receive	MIL-10FA-80	50° K/30° Elevation
		MIL-10FA-140	50° K/30° Elevation
		MIL-10FA-300	50° K/30° Elevation

Mechanical Performance

Antenna Type	Elliptical Offset with Seven Segments and Two Piece Feed Arm	
Reflector Dimensions	1.1 m x 1.0 m	
Polarization	Linear, Orthogonal Transmit and Receive	
Elevation Adjustment	0° to 90°	
Azimuth Adjustment	±120°	
Polarization Adjustment	±90° Continuous	
Cross Polarization	-35 dB within the -1 dB Co-Polar Contour	
Reflector Material	Carbon Fiber	
Port to Port Isolation	40 dB	
Antenna Optics	Prime Focus	
Finish (standard)	White (Other Colors Available)	
Weight with Motors	Case 1	8.6 kg
	Case 2	10.1 kg
	Case 3	10.3 kg

Environmental Performance

Survival Winds	80 km/h
Temperature	Operational -40°C to 80°
Humidity	100 %
Altitude	4,500 m



ASC Signal Corporation
620 North Greenfield Parkway
Garner, NC 27529 USA

Telephone: +1-919-329-8700

Fax: +1-919-329-8701

Internet: www.ascsignal.com

All designs, specifications and availabilities of products and services presented in this bulletin are subject to change without notice.

ASC-MGR20

© 2007 ASC Signal Corporation