



Mobile Telesystems, Inc.

MTI's *Black Widow Series*

KR-1000

1-Meter Collapsible Flyaway Ku-Band, Ka-Band Receive Antenna

Product Overview:

MTI, a leader in mobile technology, offers transportable VSAT solutions. The *Black Widow series* is a portable collapsible flyaway Ku-Band and Ka-Band antenna. This state-of-the-art communications antenna receives from anywhere in the world.

Its unique design, made of Silicon impregnated polyester aluminum thread, allows you to set up and dismantle quick and easy. The antenna is extremely lightweight, portable and durable.

The *Black Widow* consists of a collapsible antenna mounting on a tripod or a suitcase with wheels and can be configured in any location — in any way you like.



MTI's *Black Widow*
(Model KR-1000) with case mount

VSAT Applications:

- Data Transmissions
- Video Teleconferencing
- Broadcast Events
- Remote Networking
- Telephone and Voice Traffic
- Site Surveys
- Emergency Communications
- Surveillance



MTI's *Black Widow*
(Model KR-1000) with tripod mount

MTI's *Black Widow* Advantages:

- Lightweight
- Deployable
- Quick Setup
- Truly Collapsible

MTI-KR1000_BlackWidow (02/06)

Visit Our Website:
www.mti-usa.com

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KR-1000

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<i>Specifications</i>	<i>Ku-Band Receive</i>	<i>Ka-Band Receive</i>
Frequency	10.7 - 12.75 GHz	18.2 - 21.2 GHz
Polarity	Linear, Circular	Linear, Circular
Return Loss	20 dB typ	18 dB typ
Insertion Loss	0.1 dB typ	0.4 dB typ
Feed Interface	WR75	WR42
Midband Gain	39.2 dBi \pm 0.5 dB	42.8 dBi \pm 0.5 dB
Noise Temperature	52K @ 30°EL	91K @ 30°EL
3 dB Beamwidth (Midband)	1.8°	1.2°
G/T (Clear Sky)	19.1 dB/°K (0.7dB NF LNB)	19.9 dB/°K (1.3dB NF LNB)
First SideLobe Level (+/- 2 dB)	-18 dB	-16 dB
<i>Mechanical Data</i>		
Antenna Optics	Prime Focus	Prime Focus
F/D ratio	0.5	0.5
Mount Type	Tripod with Elevation over Azimuth Case with Elevation over Azimuth	
Elevation Adjustment	0° to 90° Continuous	
Azimuth Adjustment	360° Continuous	
Weight (Antenna & Tripod)	19 lbs (Antenna only: 8 lbs)	
Weight (Antenna & Case)	28 lbs.	
<i>Environmental Specifications</i>		
Wind Load (With Ballast Anchors)	Operational: Survival (gusts):	30 mph (48 km/hr) 50 mph (80 km/hr)
Temperature	Operational: Survival:	-30° to 130°F -50° to 150°F
Rain	Operational:	0.5 in/hr (13 mm/hr)

All product specifications are subject to change without notice.

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