TOUCI-ISAT MOBILE FLYAWAY HOTSPOT

A Portable Satellite Wi-Fi Internet Hotspot

A Case-Based Mobile Satellite Internet System

Go where cell access is not available. The Toughsat Flyaway mobile satellite system is easily transported and deployed by one person for highspeed connectivity using Commercial Grade iDirect from any location. With an integrated wireless access point, this satellite solution can become a multi-user hotspot in minutes. And with Dual Matrix service, you can choose from one of two satellites with a touch of a button (North America only).

Our Flyaway bracketing allows the Toughsat to be easily mounted on the ground, or on top of any vehicle roof rack, even rental vehicles. With the largest case length under 62", the Toughsat flyaway can easily fit into most SUV or other vehicle cargo areas. Power requirements are minimal and can be supplied by a mini-inverter from a vehicle power port, or from a portable generator.

Our VoIP phone service is optimized for satellite communication and many are often unaware they are speaking over a satellite link. At \$49.95 a month which includes 1000 free minutes, phone service is viable at any location. The Toughsat Flyaway Case - Portable Cost Effective Communications

Toughsat Flyaway Features:

- One Operator Simplicity No Certification Required
- Single Source Provider for Equipment, Service and Support
- Ground Mounting and Roof Rack Mounting (Fly-and-Drive)
- Comercial Grade iDirect Service Global Network
- Creates Wi-Fi hotspot in 3.5 minutes automatically
- · Dual Matrix Service Two satellites for redundancy
- · Ideal for VoIP phone service Very low latency
- Shippable Under UPS-FedEx-DHL limits (.98m system)
- Low power usage 90 watts average (150 watts max draw)
- Works in extreme environments. Hot-Cold-Rain-Snow
- Manufactured and supported by Ground Control
- Available in .98 meter or 1.2 meter dish sizes
- 24-7 U.S based support & nationwide field technicians



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GENERAL FEATURES

- + Manufactured by Ground Control.
- + Requires little or no training to operate.
- + No certification or licensing to operate.
 + Dish peaking accuracy is within 0.1 degrees with near zero play.
- + Typical seek time to find and lock on satellite is 3.5 minutes.
- + Establishes a self-contained local
- distortions to lock on any satellite.
- + Operates globally in both hemispheres.
- + 6 watt transmitter with 8 Watt optional.
- + Can find any liner Ku-Band satellite.

- + Computer control is not required.
- + Autostow safety features if rig is moved or dish goes off signal.



The Flyaway is easily setup by one person



IPINTERNATIONAL.NET

Wireless 1RU ACU (Dish Controller)

- + Dual Matrix Redundant satellite service
- + Integrated wireless 4 port router.

- dish parameters and firmware updates.
- + Manual overrides for dish pointing, GPS,
- Subnet Gateway address, DNS

Diagnostic & Updating

- + Lifetime free firmware upgrading active Ground Control account.
- + System provides accurate technical diagnostics without dispatching a
- Ground Control for performance tuning and troubleshooting.
- + System provides historical log of events for accurate diagnostics

MAIN CASE Specifications

Toughsat (Same for both .98 and 1.2 systems)	Comp
External Dimensions	61.25"
Weight .98 dish (loaded)	149 lb:
Weight 1.2 dish (loaded)	160 lb:

DISH & BAG Specifications

Reflector Types. External Dimensions .98 Meter Dish.....

External Dimensions (same for both .98 and 1.2)...... 21.75" x 24.75" x 14 (55.24 x 62.86 x 35.56 cm) Weight Components Cable Run

batible with Toughsat XP or SP x 21.75" x 16" (155.6 x 55.24 x 40.64 cm) s (67.59 kg) Under shipping weight limits s (72.57 kg)

.0.98 or 1.2 square meter ellective area .39" x 4" depth (99.06 x 10.16 cm)

> Dish Controller, iDirect Router, Power Conditioner

BRACKETING & DOLLY BAG

External Dimensions	63" x 8" x 8" (1	58 x 20 x 20 cm)
Weight	28 lbs (13 kg)	
Other Components	Hardware and	tools
DISH ROTATION		
Azimuth	410°	Toughsat TS2 ACU (Antenna Control Unit)
Elevation	165°	
Polarization	+-80°	One button operation with Dual Matrix
RF INTERFACE		Service for the ultimate in redundant satellite communications.
Transmit Power	6 watts BUC	
Receive Frequency	Range 950-145	50 mhz
ENVIRONMENT		
Max Operational Temperature (at 100% humidity)	Operational -2	0° F to 140° F (-28° C to 60° C)
Max Survival Temperature (at 100% humidity)	60° F to 160°	F (-51° C to 71° C)
POWER REQUIREMENTS		
Dish Controller & Dish Motors (Via 120 VAC)	15 watts (can l	be turned ol after pointing)
iDirect Modem (via AC120V to DC 24V @ 5 Amp)	75 watts	

SATELLITE NETWORK - iDirect (Flyaway may be used with any Ku-Band provider & satellite router)

Satellite Router (optional0	iDirect Evolution X5 Series Router
Max Download	Varies. Dependent on location
Max Upload	Varies. Dependent on location
Public (Static) IP Address	Included
DHCP	Yes. Wireless or 4 port Ethernet
NAT	
Wireless Security	WPA (TKIP) WPA2 (AES) + WEP 64
	Supported by included router
Port Mapping & Port Triggers	Supported by included router
QoS, ToS, MAC Address Clone, RIP v1 RIP v2	
Networkable clients machines	Unlimited
Wireless	Cisco Linksys wireless router "G"





- RACKMOUNT CASE (6U)