

Global Communications Solutions (GCS)

HAWKEYE™ II LITE



Whether the need is remote Internet/VPN connectivity, live videoconferencing, or getting tonight's news on the air, the Hawkeye II Lite™ Auto-Acquire FlyAway VSAT system provides high data rate communications up to 4mpbs.

The Hawkeye II Lite™ 1.2M FlyAway Ku-Band VSAT system is specifically designed to be airline checkable - eliminating the need for separate shipping. The complete system consists of four cases housing an Auto-Acquire 1.2M antenna, RF system and iDirect™ outdoor modem.

Case 1 is comprised of a fully Auto-Acquire 1.2M antenna positioner. Case 2 consists of a Ku-Band Feed, Struts and 4-segment lightweight, circular carbon fiber reflector in a custom padded protected case. Systems can be provided in power ranging from 25W to 60W. A third case houses the BUC/SSPA and a fourth case houses the iDirect™ outdoor modem, outriggers and accessories.

System Features:

- Four light-weight, airline-checkable custom cases make up the complete Auto-Acquire Antenna, RF System and outdoor modem.
- Auto-Acquire antenna system finds the satellite automatically within minutes.
- 4-piece lightweight carbon fiber 1.2M circular reflector provides best RF performance.
- 25W to 60W BUC & SSPA options
- iDirect™ outdoor modem eliminates heavy IFL cables
- ViewSAT terminal and control software simplifies deployment and operation

Applications:

- Quick-Deploy voice, data and video communications
- Deployable Homeland Defense emergency response communications
- Remote Internet/VPN connectivity within CONUS or OCONUS
- Video Surveillance and Video Conferencing

Homeland Security/Emergency Response/COOP



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GCS-251iC Outdoor Modem

The GCS-251iC is a complete satellite modem system developed on an embedded iDirect™ platform. It allows any L-Band communications system to utilize the iDirect™ modem without the need of conventional IFL cables or spectrum analyzers. By placing the iDirect™ modem in a ruggedized weatherproof enclosure with ECU, the unit is able to be located outdoors. Therefore, only a short coax run is needed to connect to the BUC & Booster. The connection to the indoor data equipment is via a single CAT5 cable.

The ODU contains a GPS, internal computer, antenna controller, tuning meter, Ethernet switch and iDirect modem. The system allows an operator to point and peak any satellite system without external equipment such as a spectrum analyzer. The necessary parameters (Lat/Long) are automatically loaded into the iDirect™ modem for mobile systems.

ViewSAT™ Software

ViewSAT™ is a monitor and control application designed for simple remote terminal operation through the use of an Intuitive Graphical User Interface (GUI).

It is specifically designed to monitor and control GCS' Hawkeye™ and Cheetah™ series of VSAT terminals.

The monitor and control is provided for the iDirect™ modem, Antenna controller and some select BUC/SSPAs.



Antenna and RF System:

Feed Type:	Prime Focus, Offset Feed
Reflector type:	1.2M segmented carbon fiber
Operation:	Motorized, Auto-Acquire
G/T:	21.5 dB/K (typical)
EIRP:	58 dBW (40W SSPA)
Power:	25W to 60W available
Elevation:	15-90 degrees of boresight
Azimuth:	+/- 200 degrees continuous
Temperature:	-20° C - 50° C
Wind Loading:	30 mph gusting to 45 mph with stabilizers deployed

Configuration - Rugged Hardigg shipping cases:

Case 1 - Motorized Positioner:	29" x 27" x 21" - 99 lbs.
Case 2 - RF Equipment:	29" x 27" x 21" - 98 lbs.
Case 3 - Reflector/Feed Boom:	37" x 27" x 20" - 99 lbs.
Case 4 - Outdoor modem/outriggers and accessories:	32" x 20" x 16" - 80 lbs.

Space Segment and Services:

L-3 GCS offers complete private HUB/NMS facilities as well as connectivity through partner Teleports from almost any part of the world.

GCS

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L-3. Leading. Headquartered in New York City, L-3 Communications employs over 63,000 people worldwide and is a prime system contractor in aircraft modernization and maintenance, C3ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, systems and subsystems. The company reported 2007 sales of \$14 billion.