

Global Communications Solutions (GCS)

HAWKEYE™ IIE



Whether the need is remote Internet/VPN, live videoconferencing, surveillance or reconnaissance, the Hawkeye IIE Auto-Acquire Flyaway VSAT system provides high data rate communications. This system can be deployed in a matter of minutes utilizing an auto-acquire antenna system. The Hawkeye IIE includes all equipment required to connect the user's computers and local area network (LAN) in the field to the Internet and/or Government specific Internet Protocol (IP) circuits, such as NIPRNET. In addition, the system is capable of supporting two IP telephones for VoIP (Voice over IP) communications. The transmitted signal is in IP format.

System Features:

- Auto-Acquire 1.2M carbon fiber antenna system finds the satellite automatically in minutes
- 4 Watt to 25 Watt SSPA options
- iDirect modem provides shared IP communications
- 120 ft. IFL cable reel
- Panasonic Toughbook laptop with software GUI for system control
- Singular IFL connector for ease of system interconnect
- Articulated boom for ease of system assembly
- Improved reflector latching system to allow for one person assembly
- Robust waveguide with quick disconnects
- Simple speed latch boom struts for ease of system assembly

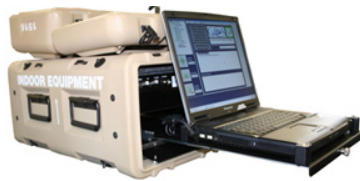
Applications:

- Quick-deploy, Government or Military secure voice, data, and video
- Military command/control or logistic support communications
- Deployable Homeland Defense Emergency response communications
- Worldwide remote Internet/VPN connectivity
- VoIP or Video-Conferencing



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Indoor Equipment:

The Indoor Equipment case is a 4RU Hardigg case with the following equipment:

- Modem tray containing iDirect modem, power supply, ethernet switch and power supply, and antenna positioner control board
- Cisco 2600 series router
- Laptop tray with mounted Panasonic Toughbook
- Optional Inclined Orbit Tracking receiver

Antenna and RF System:

| | |
|-----------------|--|
| Reflector type: | 1.2M Circular, 2-segment carbon fiber |
| Feed type: | Prime Focus, Offset feed; .8 f/d |
| Operation: | Motorized, auto-acquire |
| G/T: | 22.2 dBK (typical) |
| EIRP: | 49.2 dBW (4 watt BUC) |
| Power: | 4 watt to 25 watt available |
| LNB: | Three provided for global Ku coverage |
| Azimuth: | 400 degrees |
| Elevation: | +/- 200 degrees continuous |
| Temperature: | -20°C to +50°C (outdoor equipment) |
| Wind loading: | 30 mph gusting to 45 mph with stabilizers deployed |

LNB TABLE

| LNB | PART # | INPUT (MHz) | LO (MHz) | OUTPUT (MHz) |
|--------------|----------|-------------|----------|--------------|
| 1 - EUROPE | NJR2537S | 10950-11700 | 10000 | 950-1700 |
| 2 - CONUS | NJR2535S | 11700-12200 | 10750 | 950-1450 |
| 3 - INTELSAT | NJR2536S | 12250-12750 | 11300 | 950-1450 |

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