



**Norsat**  
International Inc.

Pioneering the Broadband Frontier



## HD GLOBETrekker™ SNG

The GLOBETrekker™ SNG represents the next generation of portable satellite news gathering systems. The highly integrated terminal is capable of broadcast quality H.264/MPEG-4 AVC and optional MPEG-2 video (up to 24Mbps). It is fully automated and is the industry's only HD SNG flyaway with built-in Norsat LinkControl™ intelligence.



## Intelligent

Equipped with 'built-in intelligence' through LinkControl™ software, the Norsat GLOBETrekker™ SNG system relieves users from lower level tasks and simplifies the satellite acquisition process. LinkControl™ is available on a wired display and an optional Android™ smartphone application. The system's intuitive single-touch operation leads the user through the process of pointing, acquiring and peaking a satellite and enables the system to operate unattended in harsh and hostile conditions.

## Ultra Portable

The Norsat GLOBETrekker™ SNG is a highly integrated system which includes a carbon fiber antenna, motorized feed assembly, LNB, BUC, motorized azimuth/elevation superstructure; built-in inclinometer, compass, GPS, MPEG-4/MPEG-2 encoder and DVB-S/2 modulator; built-in spectrum analyzer, DVB-S/2 receiver, Ethernet switch, DC-DC converter, shock protected chassis; a system controller including a wired display with software and a graphical user interface. Sleekly packaged in a rugged, self-contained wheelable cases (with IATA-compliant option), the system can be packaged to meet new stringent checked baggage weight and linear length restrictions.

## Tough

The Norsat GLOBETrekker™ SNG has been extensively tested to withstand vibrations and shocks. It is specifically designed to operate in harsh and hostile conditions characteristic of military missions or natural disaster zones.

### Ultra Portable

- Man Portable
- Airline Checkable
- Quick Assembly without Tools

### Intelligent

- Auto-Acquire
- Intuitive Interface
- Remote Operation

### Tough

- Rugged Design
- Shock Protected
- Environmental Controls



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# HD GLOBETrekker™ SNG Professional

## RF/Antenna (Outdoor Unit)

Transmit Frequency	13.75 GHz – 14.50 GHz
Receive Frequency	10.95 GHz – 12.75 GHz
RF Power	200W
EIRP	56.4dBW (40W, 1.0m)
G/T	19.4 dB/K
	(assumes $T_{ant} = 40\text{ K}$ , 20 deg elevation)
LNB Noise Figure	0.7 dB
Antenna	1.0 m or 1.2 m carbon fiber segmented (6)
Antenna Tx Gain	43 dBi (mid band)
Antenna Platform	Motorized Elevation over Azimuth Mounted on Baseboard Unit
Elevation Adj.	10° to 80°, Motorized, resolution <0.1°
Azimuth Adj	±170°, Motorized, resolution <0.1°
Polarization	Linear, Cross Pol., Motorized resolution <0.25°

## Baseband

Services	DVB-S/2 Video and Audio Transmission
Video Standards	NTSC or PAL
Video Encoding	H.264/MPEG-4 AVC Part 10, MPEG-2
Video Bit Rates	< 2 Mbps up to 24 Mbps
Chroma Sampling	4:2:0 / 4:2:2
Video Inputs	1 x Composite (BNC) 1 x HD-SDI with embedded audio (BNC)
Audio Channels	2
Audio Input	2 x Balanced (XLR) 2 x Unbalanced (RCA) 1 x Embedded audio HD-SDI (BNC)
Modulator	DVB-S/2 (QPSK, 8PSK, 16APSK, 16QAM, 32APSK) all modulation and code rates
RF Interfaces	L-band Tx/Rx (from/to external modem)



GLOBETrekker SNG Professional HD™ with 200W BUC in Components Chassis (option)

## System Control and Software

Software	Patent-Pending LinkControl™ Platform Satellite Almanac Antenna Alignment GPS Interface Beacon/Carrier Detector Spectrum Analyzer DVB-S Receiver Service Control Application Status, Alarms, Logging and Help Files
Computer	Industrial grade x86 running Windows® XP Embedded Operating System
Wired Display	800 x 600 Sunlight readable ruggedized display

## Environmental

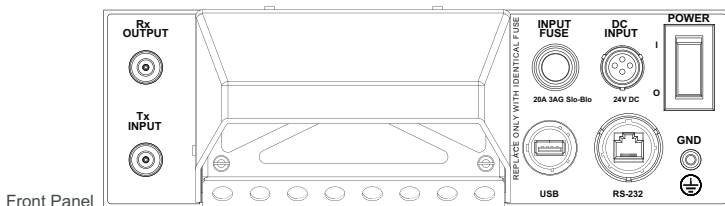
Operating Temp	-30°C to +50°C
Rainfall	180 mm/h Operational 360 mm/h Survival
Wind Speed	50 km/h Operational 100 km/h Survival (with ballast/tie downs)
Humidity	5-95% condensing
Shock/Vibration	Designed to meet MIL-STD-810F

## Power

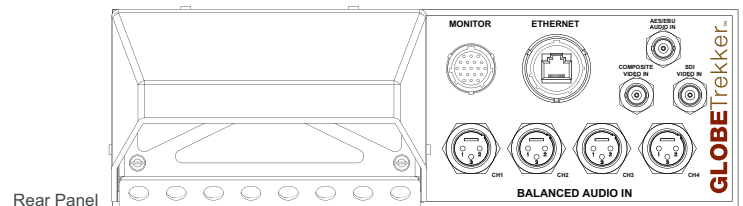
Prime Power	24V DC (nominal) Optional AC 110/220 VAC 50 / 60 Hz (Stable to 90 VAC)
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## Packaging (40W, 1.0m variant)

	Option 1 (> 32kg/case)	Option2 (< 23kg/case)
Number of Cases	2	3
Case Dimensions (LxWxH - cm)	74 x 46 x 35	67 x 49 x 29
Case Linear Length (cm)	154	145
Case Weight (kg)	43, 38	<32kg each



Front Panel



Rear Panel



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