



M2sat MicroSNG TakeAway

The worlds smallest high quality Satellite News Gathering System based on Inmarsat-BGAN



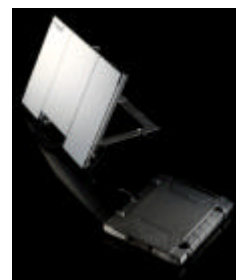
M2sat MicroSNG provides an ultralight SNG system where optimal portability and user friendliness are combined with high quality video capabilities. The M2sat MicroSNG system is based on an the Inmarsat BGAN system and a **Thrane and Thrane BGAN terminal** combined with a Tandberg Video Codec. The terminal and codec units are integrated in a dustproof case that can stand harsh environments.

The Tandberg video codec seamlessly integrates the power of video-conferencing, live video transmissions and IP-video streaming into a richly featured and easy to use product.

The complete SNG solution involves one video codec integrated in the MicroSNG case, with another codec installed in the studio or newsroom. Setting up a video session via the MicroSNG is as simple as making a telephone call, just dial the (ISDN) number of the newsroom and push the CONNECT button. The MicroSNG supports H.263 and H.264 video transmission, over ISDN and IP networks. The system is fully compatible to existing Video Store and Forward systems. Also the unit provides full internet access or IP-Connectivity to corporate networks.

Features and Capabilities

- Transmit and receive IP rates up to 492 kbps (shared) and up to 256 kbps (dedicated) for streaming audio, video and data applications.
- Standard in- and outputs for camera, monitor and audio equipment. RJ-11 interface for voice. Ethernet port for IP data transmission, e.g. video store & forward file transfer.
- Easy operation via a touch pad. No PC/notebook needed!
- Connections to world wide ISDN and IP networks as well as high speed Internet connectivity via the Inmarsat BGAN SAS gateway.
- Ruggedised design for rough transportation and operating conditions. Terminal deployment within 5 minutes. AC, DC and dual power supply options.
- Supports: Live Video Streaming, Store and Forward Video, FTP, E-mail, high speed internet, voice and fax





Technical Data

Services

Simultaneous voice and data services
64kbps ISDN (voice and data)

Data services:

- Background Internet Access (Shared IP services)

Transmit/Receive up to 492/ 492 kbps

- Streaming IP services (Dedicated)

Transmit/Receive 32/32 kbps, 64/64 kbps, 128/128 kbps and 256/256 kbps

Built-in Video Codec

Type	Tandberg Codec (w/ 2 audio channels optional)
Video standards	H.261, H.263, H.263+, H.263++, H.264
Live video resolution	PAL: 4CIF, CIF (interlaced/non-interlaced) NTSC: 4SIF, SIF (interlaced/non-interlaced)
Frame rate	up to 30 frames / sec at 384 kbps transmission speed
Video input/Output	Composite video (BNC Connector)
Audio standards	G.711, G.722, G.722.1, G.728, MPEG-4 AAC-LD
Audio inputs	1 x microphone, 24 V phantom powered (XLR Connector) 1 x line level (XLR Connector)
Audio output	1 x line level (XLR Connector)
Encryptor support	NATO standard KG194/KIV-7
Embedded encryption	H.233, H.234, H.235v2/3, DES and AES standards based

Data/Voice Interfaces

LAN / IP	1 Ethernet port (10 Base-T, RJ-45 socket)
Voice	RJ-11 for voice handset

MicroSNG Terminal Control (satmodem + video codec)

Local	Standard Keypad control with LCD display
Via Ethernet Port	Optional Web browser control via connected laptop

Power Supply

Voltage	100 – 240 V AC 50/60 Hz and 12 V DC or 24 V DC (to be specified with order)
Consumption	150 W max. in transmit mode, 120 W max. in standby mode

Environmental

Temperature range	Terminal unit with video codec	0° to +40° C
	Antenna unit	-25° to +55° C
Humidity	95 % non-condensing	

Dimensions and Weight

Terminal unit with case	62 x 49 x 30 cm, approx. 15 kg
Antenna	20 x 30 cm flat panel

