



## Nera Inmarsat M4 Terminals: Voice, Fax, Video Conferencing, and High Speed Data

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 2911 Elm Hill Pike • Nashville, TN 37214 USA

### Nera World Communicator: The "Smallest" Inmarsat M4 Land Portable

Easy to set up and easy to use: the **Nera World Communicator** is the smallest and lightest M4 terminal available today (8.8 lb). It provides **global voice, fax, and 64 kbps** data service. Voice service is provided through a **wireless handset** (2.4Ghz DECT GigaSet) or through standard user-supplied telephone equipment (requires POTS adapter, see below). Typical applications include videoconferencing, store and forward video, and data communications. **Options include antenna cables up to 30 meters in length, a fixed site antenna for permanent applications, wheeled watertight hardcase, MPDS capability, 128 kbps multiplexer, and Talking Head Videophone.**



#### High Speed Data Services: (prepaid service available)

- 64 kbps data via the serial or USB port of a computer
- 3.1 khz audio for analog modem and fax communication
- ISDN service: 64/56 kbps, S/T interface
- Two-way videoconferencing via ISDN

#### Voice Communication: (prepaid service available)

- Wireless DECT 2.4 Ghz handset
- Optional ISDN handset
- Optional Terminal Adapter required to interface with POTS telephone equipment.
- 4.8 kbps and 64 kbps speech quality are available



**Wireless DECT Handset shown on top of World Communicator transceiver unit.**

#### Specifications:

- Li Ion Battery (**100 hrs of standby operation**, *NOTE: battery efficiency degrades at low temp*)
- Terminal size: 6.8 x 27.5 x 35.5 cm; Deployed antenna: 34 x 77.4 x 1.2 cm
- **Weight 3.9 kg**; 3.4 kg without battery
- Operating temperature: -25°C to +55°C for antenna and modem
- Tx frequency: 1626.5 -1660.5 MHz; Rx frequency: 1525-1559 MHz
- Channel spacing: 5/40 KHz; EIRP: 25 dBW; G/T: -7 dBK -1
- 64 kbps data; 4.8 kbps compressed voice (low cost mini-M service)
- ISDN compatibility (RJ45-50 interface, European, **requires S/T interface**)
- Interfaces: RS-232 (9-pin DSUB), IR port
- Built-in DECT base station (supports up to 12 DECT handsets) (frequencies: 1880 - 1900 MHz)

\* All specifications subject to change without notice. Prices shown in U.S. dollars. Outfitter Airtime Contract required for above listed pricing.



## Portable VideoPhone & Video Conferencing Solutions

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# Talking Head VideoPhone Codec for 64/128 kbps ISDN or Inmarsat M4

The **7E Talking Head VideoPhone** (shown with Thrane & Thrane Capsat Messenger Inmarsat M4 terminal) provides video communications suitable to 64 or 128 kbps ISDN or Inmarsat M4 service. Outfitter Satellite offers several types of multiplexed Inmarsat M4 solutions for achieving 128 kbps data access. The unit contains an adjustable **6.4" TFT display** and **speaker**. The Talking Head is integrated into a tough waterproof case adequate for cables, microphones, and headphones, and it has a minimum of complex controls. **In short, a Talking Head is hard to break and easy to use.**



Excellent picture quality at 64 or 128kbps is assured by the latest **H.263** compression algorithms, or you can select to transmit high quality **7.5kHz audio** and low speed pictures instead. A simple mixing facility on the unit enables **low-Z microphones** and balanced or unbalanced line sources can be connected simultaneously. A custom designed I/O processor optimizes the audio/video for transmission and provides both professional **XLR/BNC** and **domestic phono connections**. Headphone jack sockets provide direct and cue (return) signals for monitoring purposes. The unit requires 90-264VAC 47-400Hz or 10.8-14.4V VDC (remote control requires two AA batteries). Optional external power kits are available from Outfitter Satellite.

### Specifications (subject to change without notice)

#### Video

ITU-T H.320, H.261 and H.263  
CIF resolution (352 x 288 pixels) at up to 15 fps  
QCIF resolution (176 x 144 pixels) at up to 30 fps  
Input: Composite, 75W BNC/Phono (PAL or NTSC)  
Output: Composite 75W BNC (PAL or NTSC)

#### Audio

ITU-T G.728 AND G.722 Full duplex with echo cancellation  
Line audio inputs (2) XLR & Phono  
Microphone input (1) XLR

**Display:** 6.4" TFT Camera: Single Chip (optional)  
**Data** RS-232 async. with T.120 to special order  
**Network** ISDN Basic Rate (2B+D); Euro-ISDN compatible  
**Dimensions:** 356 x 265 x 155 mm  
**Weight:** 4.5 kg  
**Power:** 90-264V AC; 50-60Hz or 12V DC  
**Operating temperature:** 0 to 40°C ambient  
**Non-operating temperature:** -10 to 60°C  
**Operating humidity:** 20% - 90% (non-condensing)  
**Non-operating humidity:** 10% - 95% (non-condensing)

### Available Equipment:

- **7E Talking Head TH-1 Video Phone**
- **7E Talking Head TH-2 Video Phone** (with integrated multiplexer)
- **7E S0DA 128 kbps Multiplexer** (multiplexes two M4 units)
- **7E TH-R Rack Mountable Basic with one codec**

All prices and specifications subject to change without notice. Purchase of new equipment is considered a custom order and returns or refunds are not allowed. Shipping costs will be determined at time of shipment. Purchase orders are accepted with credit approval. Prices are in USD. For information on renting this equipment call Outfitter Satellite. Prices shown requires purchase of M4 terminal.



## Ultimate Power Kit: When you need to carry your power with you...

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### Solar Power and Energy Storage in a rugged transportable package

If you need a reliable source of 12 VDC or 115 VAC 60 Hz power capable of going into a rugged environment, you need an **Ultimate Power Kit**. Our Ultimate Power Kit includes the following components: **four fuel-gauged Li-Ion rechargeable battery packs**, 150 Watt AC inverter, and a watertight transport case. A highly recommended option is a compact 25-Watt tri-fold ruggedized solar panel.

**Powering 12 VDC Equipment:** Each of the four Li-Ion batteries has 150 Watt-Hours of energy storage and can sustain up to **14 Amps of output current** through a 12 VDC cigarette lighter output. Each of the four batteries would run a typical 20 Watt notebook computer for about 5 hours (20 hours total). The realtime fuel-gauge system on each battery lets you know how much energy remains.



**Powering 115 VAC Equipment:** In addition to 12 VDC power, you can also use the AC inverter (included) to convert the battery pack's DC output to **115 VAC 60 Hz "wall power"**. Any AC powered equipment that uses less than 150 Watts can be operated in this manner.

**Re-Charging Your Ultimate Power Kit:** Recharging your batteries is easy whether you are in the field, in your vehicle, or at home. You can recharge each of the Li-Ion batteries using our optional **26-Watt solar panel in 7-8 hours of strong sunlight** (that is, 4 days of sunlight to recharge all four batteries). You can **also recharge using 115-240 VAC 50/60 Hz wall power**. Your vehicle's 12 VDC power can be converted to AC with the AC inverter, if you wish to recharge from your vehicle.

#### Component Specifications:

##### Li-Ion Battery Pack (custom order)

- Two 15 V sections with separate pack protection electronics and capacity gauge in Hard Plastic Case
- **Nominal Output:** 15 VDC; 4 A continuous
- **Capacity:** 11 AH (150 Watt-Hours) at 1 A and 23 deg C.
- **Operating Temperature:** -20 to 60 deg C.
- Input Power: requires specialized charger
- **Battery Weight:** 3.1 lb (or 1.4 kg), Size: 4.4" x 2.45" x 5 "

##### DC-to-AC Inverter

- 150 watt continuous power; 300 watt peak power
- Operating input voltage: 9.5 – 16 volts DC
- 3-prong-type AC receptacle
- Weight: 2.5 lbs; Size: 9.5" x 6" x 2"

##### Pelican Case (watertight unless external outlet option)

- **Shipping Weight:** 10 lbs for 1450 Case
- Outside Dimensions: 16-1/8"L x 13-1/4"W x 7"D for 1450 Case
- Available in Gray/Silver, Black, Yellow, or Orange