

SECTION 4

Great Voice Clarity

Compact Handset

Lightweight

Voicemail Service

Call History Log

Data Service

Coverage
Virtually Anywhere



Globalstar

Solutions

Globalstar GSP-1600 Handheld Tri-Mode Phone



No matter where your remote jobsite is located, Globalstar is your trusted companion. The GSP-1600 delivers clear digital voice and data communications virtually anywhere, combining Code Division Multiple Access (CDMA) technology and a constellation of multiple Low-Earth Orbit (LEO) satellites.

LEO satellites enable Globalstar to practically eliminate voice delay and maintain optimum battery life. The handset is also compact, which makes it easy to travel with. Plus it's reliable, ensuring superior voice quality and fewer dropped calls. Like many Globalstar products, the GSP-1600 provides a reliable, low-cost data solution that ensures the ability to send information via email or the Internet virtually anywhere in the world.



Globalstar Tri-Mode phones are designed with the flexibility to meet the needs of customers who already depend on wireless communications, but find themselves in areas where cellular or radio coverage is either unavailable or inaccessible. The Globalstar Tri-Mode phone is designed to complement existing fixed and cellular telephone networks by switching from terrestrial cellular telephony to satellite telephony as required. These features provide the Globalstar user the highest level of service and convenience.

HANDHELD TRI-MODE PHONE ADVANTAGES:

- Modes - Globalstar CDMA Satellite
 - Cellular Digital CDMA (800 MHz)
 - Cellular Analog AMPS (800 MHz)
- Comfortable and lightweight design
- Satellite antenna rotates and stows into the handset for convenience
- Easy to use and portable

A WIDE RANGE OF GLOBALSTAR SERVICES INCLUDE:

- Voice
- Voice Mail Services
- Data Services
- Short Message Service (SMS)
- Display Position Location Information

DATA SERVICES:

Through the GSP-1600, Globalstar offers efficient and reliable 9600 bps data services. Subscribers can access data services through the Globalstar network or through direct dial-up services from virtually anywhere in the world. Using the data cable to connect the Tri-Mode phone to a computer's RS232 port, sending and receiving information has never been easier. The Globalstar Data Kit (not included) includes a software CD and cable for installation and use.

GSP-1600 INCLUDES:

- GSP-1600 Handset
- Lithium Ion Battery
- North American Wall Charger
- User Manual
- Optional Accessories (not included) – see reverse

Visit www.virgintechologies.com for service plan and coverage details.

Globalstar GSP-1600 Handheld Tri-Mode Phone

TECHNICAL SPECIFICATIONS GSP-1600 HANDHELD TRI-MODE PHONE

ACCESSORIES (OPTIONAL)



HANDS-FREE CAR KIT

DATA CABLE



CIGARETTE LIGHTER ADAPTER/CHARGER



UNIVERSAL TRAVEL CHARGER



NORTH AMERICAN WALL CHARGER



PROTECTIVE LEATHER CASE



LITHIUM ION BATTERY PACK

TEMPERATURE RANGE

Phone
Car Kit Antenna
Car Kit Cradle

OPERATIONAL

-20 to +55°C (-4 to +131°F)
-30 to +50°C (-22 to +122°F)
-30 to +50°C (-22 to +122°F)

NON-OPERATIONAL

-30 to +60°C (-22 to +140°F)
-40 to +85°C (-40 to +185°F)
-40 to +85°C (-40 to +185°F)

RF POWER OUTPUT (CAR KIT)

400 mW maximum (+26 dBm) (Satellite mode)
.89 watts maximum (+29.5 dBm)

VOCODER

8k variable rate vocoder for Globalstar mode
13k variable rate vocoder for CDMA mode

FREQUENCY RANGE

Globalstar Transmit: 1610.73 to 1625.49 MHz
Globalstar Receive: 2484.39 to 2499.15 MHz
Cellular Transmit: 824.01 to 848.97 MHz
Cellular Receive: 869.01 to 893.97 MHz

TECHNOLOGY

Globalstar Satellite Mode (CDMA)
800 MHz CDMA (Digital Cellular)
800 MHz AMPS (Analog Cellular)

FEATURES:

- Battery Meter
- Signal Strength Indicator
- Voice Mail Notification
- 99 Memory location with call restriction
- Call History Log

TRI-MODE PHONE SIZE SPECIFICATIONS:*

The Globalstar Tri-Mode phone offers an ergonomic design that makes it comfortable for hand-held operation. The phone measures 400cc in total volume and weighs 384 grams. The height is 177 mm, the width is 57 mm and the thickness is 48 mm (excluding the cellular antenna). The antenna, when held in a vertical position, communicates with the Globalstar satellite at elevations more than 10 degrees above the horizon. The Globalstar antenna rotates and stows into the handset for convenience when not in use.

* All measurements for height and volume include standard battery and assume the Globalstar antenna is stowed.

TALK TIME/STANDBY TIME:

- In Globalstar satellite mode, the phone will sustain normal operation for 3.75 hours of talk time, 19 hours of standby time.
- In CDMA (IS-95) mode, the phone will sustain normal operation for 4.7 hours of talk time or 75 hours of standby time.
- In AMPS (IS-41) mode, the phone will sustain normal operation for 2.8 hours of talk time or 15 hours of standby time.

www.virgintechnologies.com

Some conditions apply. Rates for minutes based on individual price plan. Coverage may vary. Specifications subject to change without notice. Please contact Virgin Technologies at Toll Free 1-866-788-VSAT for pricing, coverage and airtime information. You can also visit our Web site at www.virgintechnologies.com/Solutions/Business_Solutions/Globalstar_Phones.htm for more information.

VIRGIN TECHNOLOGIES
innovative ways to make communication easy



GLOBALSTAR

GSP-1700

Satellite Phone

Globalstar's smallest and lightest satellite phone, the Globalstar GSP-1700 adds ergonomic design for even more comfort and convenience. The antenna, when held in a vertical position, communicates with the constellation of Globalstar satellites. It also rotates and stows into the handset when not in use for more compact carrying.



Available in copper, silver and red.

FEATURES

COMPACT AND LIGHTWEIGHT

- Weighing in at only 200g and measuring just 135mm x 55mm x 37mm*, the GSP-1700 is easy to travel with – no matter what the terrain or conditions.

HANDHELD ERGONOMICS

- Fits neatly into your hand to make dialing and holding the phone more comfortable.

RINGS WHILE ANTENNA IS STOWED

- Receive calls even when the antenna is down.

BACKLIT COLOUR DISPLAY WITH 4-LINE, 12-CHARACTER LCD

- Optimized for outdoor daytime viewing.

BENEFITS

COVERAGE FAR BEYOND CELLULAR

- Improve productivity and safety when working, traveling or visiting remote areas.

SUPERIOR VOICE CLARITY

- Enjoy natural conversation with minimal satellite delay.

CHOICE OF PRICEPLANS

- Plans that are tailored to your calling needs, including monthly or annual plans.

GLOBAL ROAMING

- Use the GSP-1700 in 120 countries worldwide!

THE GLOBALSTAR DATA ADVANTAGE

- Send emails, surf the Internet and send and receive fax data.

Discover how far the Globalstar GSP-1700 Satellite Phone can take you. Visit www.virgintechnologies.com or call us at Toll Free 1-866-788-VSAT.

*All measurements for height and volume include standard battery and assume the Globalstar antenna is stowed.

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exchange information easily



GSP-1700 SPECIFICATIONS

TEMPERATURE RANGE

- Phone: Operational, -20 to +55°C (-4 to +131°F)
Non-Operational, -30 to +60°C (-22 to +140°F)
- Car Kit Antenna: Operational, -20 to +55°C (-22 to +122°F)
Non-Operational, -40 to +85°C (-40 to +185°F)
- Car Kit Cradle: Operational, -30 to +50°C (-22 to +122°F)
Non-Operational, -40 to +85°C (-40 to +185°F)

RF POWER OUTPUT (CAR KIT)

- 400 mW maximum (+26 dBm) (Phones)
- 794 mW maximum (+29 dBm) (Car kit)

VOCODER

- 8k variable rate vocoder for Globalstar mode

FREQUENCY RANGE (CHANNEL CENTER FREQUENCY)

- Globalstar Transmit: 1610.73 to 1620.57 MHz
- Globalstar Receive: 2484.39 to 2499.15 MHz

TECHNOLOGY

- Globalstar Satellite Mode (CDMA)

TALK TIME/STANDBY TIME:

- Normal operation for four 4 hours of talk time (+26 dBm)
- 10 hours of standby time when in ring while stowed mode
- 36 hours of standby time when not in ring while stowed mode

ACCESSORIES



GAC-1700 AUXILIARY BATTERY CHARGER

Use it to externally charge a battery for the Globalstar GSP-1700, and provide power to the phone directly. Requires use of the Globalstar GVC-1700 vehicle charger (sold separately) or GWC-1700 Wall Charger.



GPB-1700 LITHIUM-ION BATTERY

Delivers ample power to the GSP-1700 satellite phone. Provides 4 hours talk time, 36 hours standby time. High-capacity Lithium-ion technology with integrated circuitry protects against short circuits and overcharging.



GVC-1700 VEHICLE CHARGER

Allows for operation of the GSP-1700 satellite phone while charging the battery. Fits standard automotive power sockets. Includes high-grade 6-foot coil cord.



GDK-1700 DATA KIT

Connects the GSP-1700 to any standard USB A port for easy access to the Internet, email or private data networks. Phone and laptop not included.



RUGGEDIZED LEATHER CASE

Helps protect your GSP-1700 satellite phone in the roughest of conditions. Phone will ring and can be answered while still in the case. Includes belt clip.



LIGHTWEIGHT NYLON CASE

Same ring- and answer-capability as the Ruggedized Leather Case, made with durable, weight-saving nylon. Also includes belt clip.

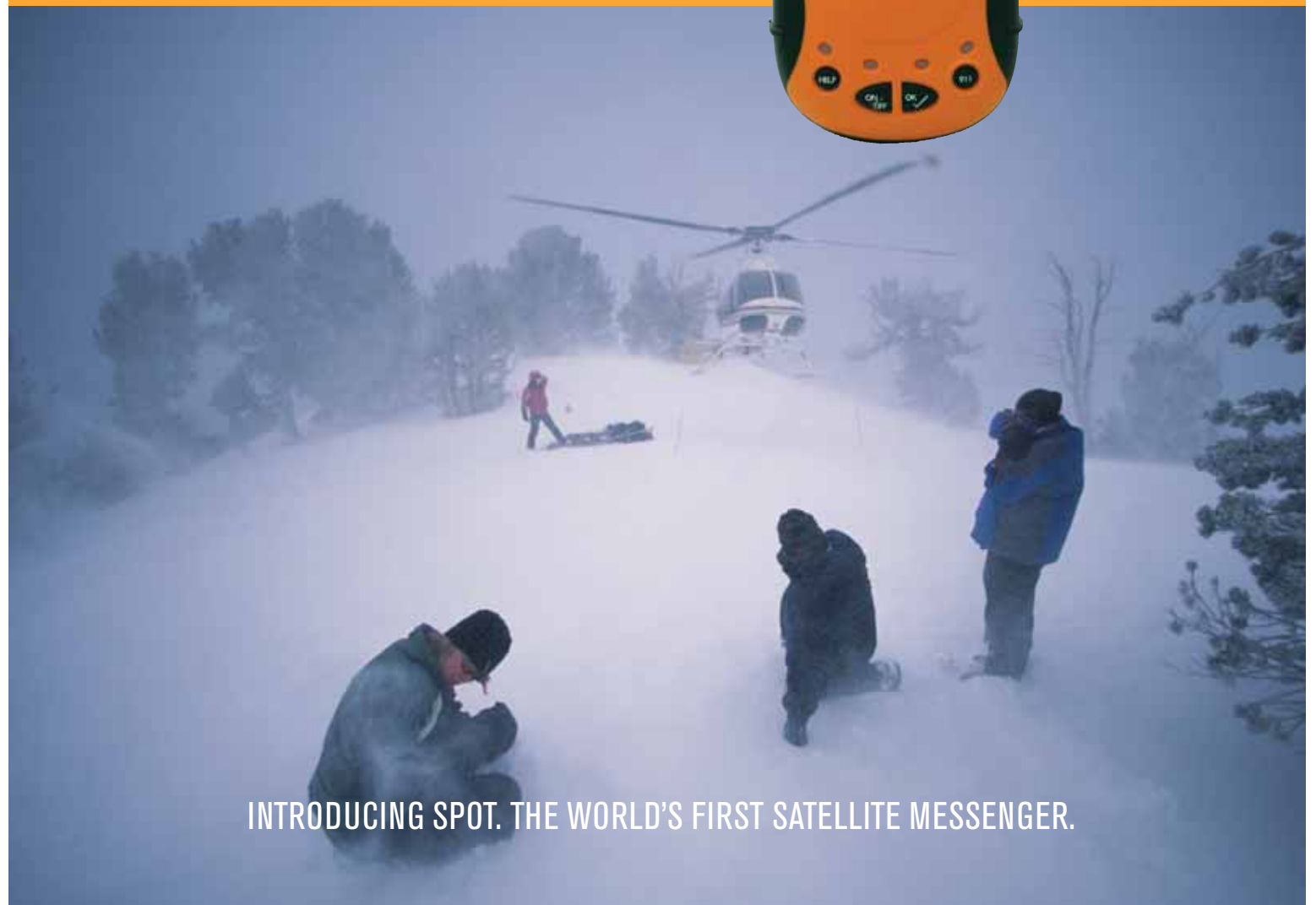
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exchange information easily

MILLIONS OF PEOPLE

**ESCAPE TO THE GREAT OUTDOORS.
UNFORTUNATELY, NOT ALL
OF THEM ESCAPE
FROM IT.**



INTRODUCING SPOT. THE WORLD'S FIRST SATELLITE MESSENGER.

LIVE TO TELL ABOUT IT™

SPOT. THE WORLD'S FIRST SATELLITE MESSENGER.



ASK FOR HELP

Request help from friends and family at your exact location.

CHECK IN

Let contacts know where you are and that you're okay.

TRACK PROGRESS

Send and save your location and allow contacts to track your progress using Google Maps™

ALERT 9-1-1

Dispatch emergency responders to your exact location.



THERE IS LIFE AFTER CELL PHONE SIGNALS DIE.

Unlike a traditional GPS device which only receives a satellite signal indicating your location, SPOT utilizes dual satellite networks to receive your location as well as transmit it along with pre-programmed messages to the recipients of your choice. Backed by one of the world's leading mobile satellite companies, the SPOT satellite network is currently employed by over 50,000 governmental and industrial clients, and averages a greater than 99% message success rate. No matter where you roam, SPOT gives you a vital line of communication with friends and family when and where you want it, and emergency assistance when and where you need it.

