



## KEY FEATURES

Priced to equip an entire workforce

Lightweight and compact

Productive field and office workflow

Windows Mobile 5.0 software familiarity and convenience

Bluetooth and WLAN connectivity



## BEST VALUE GIS DATA COLLECTION SYSTEM

The Juno™ ST handheld is a highly productive yet affordable, non-rugged GPS receiver for field data collection and mobile GIS. The Juno ST handheld is Trimble's most compact, lightweight, fully-integrated field computer, providing 2 to 5 meter GPS positioning in real time or after postprocessing.

### Easy to deploy

The Juno ST handheld is ideal for utility companies, government organizations, and agencies that are managing large deployments and tight budgets.

In applications such as forestry mapping and workforce automation, where accuracy may be less important, and high productivity is essential, the Juno ST handheld is ideal. Incorporating a high-sensitivity GPS receiver, it has been specifically designed to maximize yield of positions in hostile environments, such as under forest canopy and up against buildings.

If you need 2 to 5 meter accuracy in the field, you can use the integrated WAAS receiver for real-time corrections. Or you can collect data in the field and postprocess it back in the office to ensure positions are defined to the required accuracy level for your GIS, and to control the overall quality and consistency of your data.

### Keeping you mobile

Weighing in at only 133 g (0.3 lb), the Juno ST handheld provides the ultimate in portability to keep your workforce mobile.

The Juno ST handheld is easily carried in a shirt pocket and you won't be weighed down by a large receiver. Every member of your workforce can be equipped at all times.

You never have to worry about running out of memory in the field with the Juno ST handheld's SD card capability. You can be sure that you always have ample storage for data and raster background maps.

### Software for field and office productivity

As part of the Trimble family of GPS solutions, the Juno ST handheld is fully compatible with the entire range of Trimble Mapping & GIS software.

Enabling robust, professional data collection and maintenance, you have a choice of TerraSync™ software or the Trimble® GPScorrect™ extension for ESRI ArcPad. You can also choose any off-the-shelf NMEA protocol

GPS field software, or use the GPS Pathfinder® Tools Software Development Kit (SDK) to build an application that's customized to your needs.

Office processing and postprocessing capability is provided with GPS Pathfinder Office software and Trimble GPS Analyst™ extension for ESRI ArcGIS. Full software compatibility allows existing Trimble customers to continue to use the same streamlined workflows and DGPS infrastructure.

### Industry standard software

Powered by industry standard Microsoft® Windows Mobile® version 5.0 software, you get all the benefits of an open platform for mobile devices. With Windows Mobile 5.0 software, all your data and applications reside in persistent storage, so they are secure even in the event of power loss.

The Windows Mobile 5.0 software also includes familiar Microsoft productivity tools such as Word Mobile, Excel Mobile, Internet Explorer Mobile, and Outlook® Mobile.

### Stay connected

Integrated Bluetooth® and wireless LAN technology provide options for connecting to the Internet and your corporate network to access data and maps and to send and receive email and instant messages.

Use the built-in wireless LAN radio in conjunction with TrimPix™ technology to connect to a range of WiFi-capable Nikon digital cameras for automated capture of digital images. With TrimPix software you can take photos with a high resolution camera and send them wirelessly to your Juno ST handheld to be added as attributes to features in your GIS.

### It doesn't get any bigger than this

Don't underestimate the Juno ST handheld based on its size—it may be diminutive in stature but it still provides all the heavy-hitting power of a fully-integrated GPS solution backed by Trimble's entire range of software and support.

Providing reliable, high-quality data collection capability, the Juno ST handheld is available at a price that will allow you to maximize your entire workforce's potential.

# Juno ST handheld

## STANDARD FEATURES

### System

- Microsoft Windows Mobile version 5.0 software
- 300 MHz Samsung processor
- 64 MB RAM
- 128 MB non-volatile Flash data storage
- SD memory card slot with SDIO support
- Internally rechargeable and removeable Li-Ion battery
- Integrated Bluetooth wireless technology for connectivity to other devices
- Integrated 802.11b/g wireless LAN for local network connectivity

### GPS

- Integrated high-sensitivity GPS/WAAS<sup>1</sup> receiver and antenna
- 2–5 meter accuracy after differential correction (real-time or postprocessed)
- NMEA and SiRF protocol support

### Software

- GPS Controller for controlling NMEA output and in-field mission planning
- Microsoft ActiveSync®, Calculator, File Explorer, Internet Explorer, Pictures, Excel Mobile, Outlook Mobile (Inbox, Calendar, Contacts, Notes, Tasks), Word Mobile, Windows® Media Player
- Transcriber (handwriting recognition)
- TrimPix software for wireless camera support. Download from [www.trimble.com/trimpix.asp](http://www.trimble.com/trimpix.asp)

### Accessories

- Power supply with international adapter kit
- Vehicle power adapter
- 1m mini USB cable
- Quick Start Guide
- Carry case
- Rechargeable Li-ion battery

## OPTIONAL FEATURES

### Software

- TerraSync software
- Trimble GPScorrect extension for ESRI ArcPad software
- GPS Pathfinder Tools Software Development Kit (SDK)
- GPS Pathfinder Office software
- Trimble GPS Analyst extension for ESRI ArcGIS software

### Accessories

- Replacement Li-Ion battery
- External GPS antenna
- Stylus (pack of 2)

## TECHNICAL SPECIFICATIONS

### Physical

Size . . . . . 10.9 cm × 6.0 cm × 1.9 cm (4.3 in × 2.4 in × 0.7 in)  
Weight . . . . . 0.133 kg (0.3 lb) with battery  
Processor . . . . . 300 MHz Samsung S3C2442 processor  
Memory . . . . . 64 MB RAM and 128 MB internal Flash disk  
SD memory card slot with SDIO support

### Power<sup>2</sup>

Low (no GPS or backlight) . . . . . 10 hours  
Normal (with GPS and backlight<sup>3</sup>) . . . . . 6 hours  
Battery . . . . . Removeable 1200 mAh lithium-ion, rechargeable in unit

### Environmental

#### Temperature

Operating . . . . . -10 °C to +50 °C (14 °F to 122 °F)  
Storage . . . . . -20 °C to +70 °C (-4 °F to 158 °F)

### Input/output

Communications . . . . . Bluetooth<sup>4</sup>, 802.11b/g wireless LAN, USB slave port<sup>5</sup>  
Display . . . . . 2.8" QVGA (Transmissive with micro reflective; TMR)  
Touch panel, 240 × 320 pixel 65,536 colors, with backlight  
Audio . . . . . Mono speaker, unidirectional microphone speaker  
Record and playback utilities  
Industry-standard 3.5 mm stereo earphone jack  
Interface . . . . . Touch screen, Soft Input Panel (SIP) virtual keyboard  
handwriting recognition software, power status LED  
Audio system events, warnings, and notifications

### GPS

Channels . . . . . 12 (L1 code only)  
Integrated real-time . . . . . WAAS<sup>1</sup>  
Update rate . . . . . 1 Hz  
Time to first fix . . . . . 30 seconds (typical)  
Protocols . . . . . SiRF  
NMEA-0183 v3.0 (GGA, VTG, GLL, GSA, ZDA, GSV, RMC)

### Accuracy (HRMS)<sup>6</sup> after differential correction

Code Postprocessed . . . . . 2–5 m  
Real-time (WAAS<sup>1</sup>) . . . . . 2–5 m

1 WAAS (Wide Area Augmentation System) available in North America only.  
2 Using Bluetooth wireless technology or wireless LAN connectivity will consume additional battery power.  
3 Backlight setting at default level of medium brightness  
4 Bluetooth and wireless LAN type approvals are country specific. Juno ST handhelds have Bluetooth and wireless LAN approval in the U.S. and EU. For other countries please consult your local Reseller.  
5 Fully compatible with USB v2.0 computers.  
6 Horizontal Root Mean Squared accuracy. Requires data to be collected using horizontal mounting, minimum of 4 satellites, PDOP mask at 99, SNR mask at 12 dBHz, elevation mask at 5 degrees, and reasonable multipath conditions. Ionospheric conditions, multipath signals or obstruction of the sky by buildings or heavy tree canopy may degrade precision by interfering with signal reception. Accuracy varies with proximity to base station by +1 ppm for postprocessing and real-time.

Specifications subject to change without notice.

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