



### KEY FEATURES

- 3.5G cellular data and voice capability
- Feature packed, fully integrated solution
- 3 megapixel camera
- High-sensitivity GPS receiver
- Long life battery for all-day use
- Lightweight and compact

### ULTIMATE FIELD SOLUTION FOR ASSET MANAGEMENT WITH 3.5G VOICE AND DATA CAPABILITY

The Juno® SD handheld is a durable, lightweight handheld that integrates an array of powerful features. Providing photo capture, integrated cellular data and voice call capability, and high yield GPS positioning, the Juno SD handheld will empower and increase the efficiency of your entire mobile workforce.

Whether you are managing critical assets, responding to emergencies, or updating your enterprise GIS, the Juno SD is the ultimate solution. The integrated camera provides a visual record, while the cellular data and voice capability allows the user to relay crucial details of the situation back to the office.

#### In touch and connected

The integrated 3.5G HSDPA cellular capability keeps your entire field workforce in contact with the office and the data they need. The Juno SD provides a high-speed internet connection, enabling your team to access crucial information in the field; work-orders, map data, reference files, emails, and even the Internet. Field workers are kept in contact with cellular voice capability enabling them to call to the office for the next job, to provide live updates, or to request assistance—a must for worker safety.

The Juno SD handheld also enables connections to networks and other devices with its integrated Bluetooth® and wireless LAN capabilities.

#### Your all-in-one mobile solution

The Juno SD handheld is designed to keep your workforce mobile with the convenience of a single, pocketable device that avoids the need to carry a PDA, a separate camera, GPS data collector, and cellular phone.

An integrated 3 megapixel digital camera allows you to capture high quality images ideal for GIS data collection. The integrated GPS receiver provides position information which can be utilized by the digital camera and other applications installed on the device. Mobile workers can accurately record asset conditions, provide documentary evidence, and give staff back in the office an accurate picture of the situation in the field by utilizing the data and voice capabilities of the integrated cellular phone.

The long life battery of the Juno SD handheld allows GPS data collection for a full working day, without the need for recharging.

The battery is also field-replaceable, for extended periods away from a power source.

You never have to worry about running out of memory in the field with the Juno SD handheld's microSD card slot. Compatibility with high capacity microSD cards provides up to 8 GB of storage for large applications, data and raster background maps, or even entire projects from GIS data to associated documentation and more.

The Juno SD handheld's Windows Mobile® 6.1 operating system includes personal productivity tools such as Word Mobile, Excel® Mobile, Internet Explorer® Mobile, and Outlook® Mobile, allowing a seamless exchange of data between the field and office.

#### Productivity for field and office

In applications such as natural resource data collection, public works asset inspection, and mobile workforce management where high productivity is critical, the Juno SD handheld is ideal. Incorporating a high-sensitivity GPS receiver, it has been specifically designed to maximize yield of positions in difficult environments such as under forest canopy and up against buildings. For these types of applications, the Juno SD handheld can be used in real time with its integrated SBAS receiver to achieve 2 to 5 meter positional accuracy. When higher accuracy is required to meet company or regulatory standards, the field data collected with the Juno SD handheld can be postprocessed with the new Trimble® DeltaPhase™ technology to achieve 1 to 3 meter<sup>7</sup> accuracy.

As part of the Trimble family of GPS solutions, the Juno SD handheld is fully compatible with Trimble's entire range of Mapping & GIS software, giving you a choice of GIS data collection and maintenance software solutions at a range of price points. You can easily deploy the Juno SD handheld alongside your current Trimble equipment and maintain the same workflows and policies.

Provide the ultimate integrated solution to your field workers, keeping them connected and in touch while removing the need for a separate camera, GPS data collector, PDA, and cellular phone. The Juno SD handheld is the key to maximizing the productivity of your entire workforce.



# JUNO SD HANDHELD

## STANDARD FEATURES

### System

- Windows Mobile 6.1 in Chinese, English, French, German, Italian, Japanese, Korean, Portuguese (Brazilian), Russian, or Spanish
- 533 MHz Samsung processor
- Integrated data and voice capable HSDPA 3.5G cellular (Quad-band GSM/GPRS and Tri-band WCDMA 3.5G)
- Integrated SMS capability
- Integrated Bluetooth v2.0 wireless technology
- Integrated 802.11b/g wireless LAN
- Integrated digital camera (color, 3 megapixel resolution)
- 128 MB RAM
- 128 MB non-volatile Flash data storage
- microSD (microSDHC compatible) memory card slot
- QVGA display (240 x 320), sunlight-readable color touch screen
- All-day internally rechargeable and removable Li-Ion battery
- Integrated speaker, microphone, and audio jack

### GPS

- Integrated high-sensitivity GPS/SBAS<sup>1</sup> receiver and antenna
- 2 to 5 meter accuracy after real-time differential correction
- 1 to 3 meter<sup>7</sup> accuracy after postprocessing
- NMEA and SiRF protocol support

### Standard Software

- Microsoft Office Mobile, includes Excel Mobile, Word Mobile, Internet Explorer Mobile, Outlook Mobile, and PowerPoint® Mobile
- Adobe Reader
- Transcriber (handwriting recognition)

### Standard Accessories

- AC Power supply with international adapter kit
- USB data cable
- Stylus (2-pack)
- Wrist lanyard
- Rechargeable Li-ion battery
- Quick Start Guide
- Getting Started CD, containing User Guide

## OPTIONAL FEATURES

### Optional 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 Desktop software
- GPS Controller software for controlling NMEA output and in-field mission planning
- TrimPix™ Pro system

### Optional Accessories

- Vehicle power adapter
- Vehicle mount for windshield or dash
- External GPS patch antenna
- Protective OtterBox Defender Series case with belt clip
- Anti-glare screen protectors (2-pack)
- Clear screen protectors (2-pack)
- Replacement AC Power supply with international adapter kit
- Replacement Li-Ion battery
- Replacement Stylus (2-pack)

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## TECHNICAL SPECIFICATIONS

### Physical

Size	12.9 cm x 7.4 cm x 3.0 cm (5.1 in x 2.9 in x 1.2 in)
Weight	0.24 kg (0.54 lb) with battery
Processor	533 MHz Samsung S3C2443 processor
Memory	128 MB RAM and 128 MB internal Flash storage
Battery	Internal 2600 mAh lithium-ion, rechargeable in unit Power <sup>2</sup>
	Low (no GPS, backlight ON) <sup>3</sup> .....14 hours
	Normal (with GPS and backlight ON) .....8 hours

### Environmental

Temperature	
Operating	0 °C to +60 °C (32 °F to 140 °F)
Storage	-20 °C to +70 °C (-4 °F to 158 °F)
Drop	76 cm (2.5 ft) drop
	2 drops per 6 sides at ambient temperature 23 °C (73 °F)
Tumble	50 cycles (100 drops) x 50 cm (1.64 ft), 5 cycles/minute
Casing	IP4X. Protected against small objects >1 mm

### Input/output

Expansion	microSD Card slot (microSDHC compatible)
Display	8.9 cm (3.5 in) QVGA (240 x 320 pixel) TFT
	16 bit (65,536) colors, LED backlight
Interface	Touch screen, hardware control keys, power status LED
	Audio system events, warnings, and notifications
	Soft Input Panel (SIP) virtual keyboard
	and handwriting recognition software
Audio	Microphone and speaker, record and playback utilities
	Industry-standard 3.5 mm stereo earphone jack
I/O	USB client v2.0 compliant
Radios	Bluetooth 2.0 <sup>4</sup> , Wireless LAN 802.11b/g
	Integrated HSDPA 3.5G cellular (data and voice) <sup>5</sup>
Digital Camera	3 megapixel color camera with autofocus
	JPEG photo format, WMV video format

### GPS

Channels	12 (L1 code only)
Integrated real-time	SBAS <sup>1</sup>
Update rate	1 Hz
Time to first fix	30 seconds (typical)
Protocols	SiRF, NMEA-0183

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

Code Postprocessed	1-3 m <sup>7</sup>
Real-time (SBAS <sup>1</sup> )	2-5 m

1 SBAS (Satellite Based Augmentation System). Includes WAAS (Wide Area Augmentation System) available in North America only, EGNOS (European Geostationary Navigation Overlay System) available in Europe only, and MSAS available in Japan only.

2 Using wireless technology, such as Bluetooth, wireless LAN or cellular will consume additional battery power.

3 Backlight setting at 70% brightness.

4 Bluetooth and wireless LAN type approvals are country specific. Juno series handhelds have Bluetooth and wireless LAN approval in the USA, EU, and Australia. For other countries please consult your local Reseller.

5 Tri-Band UMTS/HSDPA; Quad-Band GSM/GPRS/EDGE. The Juno SD handheld is PTCRB certified and can operate on any of these networks that do not require carrier certification. Consult with your local reseller for more information.

6 Horizontal Root Mean Squared accuracy. Requires data to be collected using vertical 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.

7 Requires Trimble DeltaPhase technology, as supported in the GPS Pathfinder Office software version 4.20 or later, or the GPS Analyst Extension for ESRI ArcGIS Desktop software, version 2.20 or later.

Specifications subject to change without notice.



**Earth Vector Systems**

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