

KEY FEATURES

Outdoor rugged design

Microsoft Windows Mobile 5.0

Long-life battery

Expandable and versatile, with two CF slots and one SD memory slot

Optional built-in Bluetooth and wireless LAN

Full alphanumeric keyboard



STILL ONE OF A KIND.

The Trimble® Ranger™ rugged handheld computer, like the pioneering original launched in 2000, combines a Windows® operating system with an ergonomic keypad and military-grade durability. Based on real-world feedback from tens of thousands of users, Trimble's only rugged data collector with a full keypad offers:

- Two models—the economical 300X and the powerful 500X.
- Microsoft Windows Mobile® 5.0—a familiar operating system that includes Mobile Word and Excel.
- Integrated wireless capabilities—connection without cables.
- Expansion capabilities—additional functionality and storage opportunities are available via built in CompactFlash (CF) and Secure Digital (SD) slots

Ranger is a proven and stable platform that continues to assert its position as a leader as in outdoor rugged data collection.

Rugged as ever

You can count on your Ranger in the roughest conditions. It meets rigorous MIL-STD-810F standards for impact, vibration, humidity, altitude and extreme temperatures. It also comes with an IP67 rating. That means the Ranger handheld is completely

sealed against dust, and it can survive immersion in up to one meter of water for 30 minutes. This outdoor rugged design keeps your data safe from the elements.

Wireless and Expansion options

Leave bulky cables behind. Use Ranger's optional integrated Bluetooth to connect wirelessly to instruments. Connect to the internet or network with the optional integrated 802.11 wireless to upload files. Create a custom solution using the Ranger's built in SDIO slot and two CF slots. Add GPS, data storage bar-code scanners and other devices. When combined with one of the various sized CF-Cap™ options, Ranger has the versatility to meet nearly any data collection need.

Everything about the Ranger is designed to make it tough on the job—and easy on you.

Trimble Ranger handheld computer

STANDARD FEATURES

- Microsoft Windows Mobile 5.0
- Full alpha and numeric keypad
- Touchscreen
- Battery life of 30 hours under normal operating conditions
- Complete recharge in 4.5 hours (80% in 2 hours)
- Battery charge status LED indicator
- Notification LED
- Rugged polycarbonate shell
- Integrated speaker and microphone

STANDARD SOFTWARE

- Microsoft Office Mobile
 - Word Mobile
 - Excel Mobile
 - PowerPoint Mobile
 - Outlook Mobile
- Pocket Internet Explorer
- Terminal services client
- Notes/Tasks
- Calculator
- Windows Media Player
- Microsoft Pictures and Videos
- Online help
- Contacts/Calendar

STANDARD ACCESSORIES

- AC charger
- Standard CF-Cap
- Screen protectors
- Rechargeable Li-Ion PowerBoot Module
- USB data cable
- User's guide
- Hand strap
- Stylus

OPTIONAL ACCESSORIES

- Vehicle charger
- Nylon carry case
- Tripod bracket
- Range pole bracket
- Midsize CF-Cap
- Extended CF-Cap
- Lanyard

PHYSICAL

Size 10.5 in x 5.2 in x 1.9 in (26.6 cm x 13.1 cm x 4.8 cm)
 Weight 2.1 lb (952 g), including battery
 Housing Polycarbonate
 Color Yellow w/Black or Grey w/Black
 Keys 53 tactile keys with separate navigation
 alpha and numeric keypads, plus 8+1 directional pad

ENVIRONMENTAL SPECIFICATIONS

Meets or exceeds:

Water Immersed in 1 meter of water for 30 minutes
 Water Jet 12.5 mm dia. @ 2.5 m–3 m, 100 Liter/min
 MIL-STD-810F, Method 512.4, Procedure I
 IEC-529, IP67
 Sand & dust 8 hours of operation with blowing talcum powder
 MIL-STD-810F, Method 510.3, Procedures I, II
 IEC-529, IP67

Drop 26 drops at room temperature from 4 ft (1.22 m)
 onto plywood over concrete
 6 additional drops at –22 °F (–30 °C)
 6 additional drops at 140 °F (60 °C)
 MIL-STD-810F, Method 516.5, Procedure IV
 Vibration General Minimum Integrity and Loose Cargo test
 MIL-STD 810F, Method 514.5, Procedure I, II
 Operating Temperature –22 °F to 140 °F (–30 °C to 60 °C)
 MIL-STD 810F, Method 501.4, Procedure II
 MIL-STD 810F, Method 502.4, Procedure I, II, III
 Storage Temperature –40 °F to 158 °F (–40 °C to 70 °C)
 MIL-STD 810F, Method 501.4, Procedure I
 MIL-STD 810F, Method 502.4, Procedure I, II, III
 Temperature shock –22 °F/149 °F (–35 °C/+65 °C)
 MIL-STD-810F, Method 503.4, Procedure I
 Humidity 90%RH temp cycle 32 °F/158 °F (0 °C/+70 °C)
 MIL-STD-810F, Method 507.4
 Altitude 15,000 ft at 73 °F (5 °C) and 40,000 ft at –22 °F (–30 °C)
 MIL-STD-810F, Method 500.4, Procedures I, II, III

ELECTRICAL

Processor Intel PXA 270 XScale CPU
 Expansion 1x Type I and 1x Type II CompactFlash slots
 1x Secure Digital I/O (SDIO) slot
 Display 320 x 240 pixel (1/4 VGA) color TFT with LED backlight
 Batteries Li-Ion rechargeable pack, 6600 mAh
I/O
 Ports 9-pin serial port – RS232 (115 Kbps)
 USB host and client
 DC power port

Models

Processor/Speed	RANGER 300X	RANGER 500X
Intel XScale	312 MHz (520 MHz optional)	520 MHz
Memory		
SDRAM ~22 MB reserved	64 MB	128 MB
Data storage (On-board Flash) ~40 MB reserved	256 MB	512 MB
Wireless		
Integrated Bluetooth	Optional	Standard
Integrated 802.11g	Optional	Optional

© 2006–2009, Trimble Navigation Limited. All rights reserved. Trimble and the Globe & Triangle logo are trademarks of Trimble Navigation Limited registered in the United States and in other countries. Ranger is a trademark of Trimble Navigation Limited. PowerBoot Module, Midsize CF-Cap, Extended CF-Cap, and CF-Cap are trademarks of Trimble Navigation Limited. Windows and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. All other brand names and trademarks are property of their owners. Color display images shown may vary slightly from actual display. PN N2022490-007C (07/09)



Specifications subject to change.

YOUR AUTHORIZED TRIMBLE DISTRIBUTION PARTNER

Trimble Navigation Limited
 P.O. Box 947
 Corvallis, OR 97339
 541-750-9200 Phone
www.trimble.com/rugged
www.outdoorugged.com



www.trimble.com