

# TDS Ranger

- Ergonomic, alpha and numeric keys
- Meets MIL-STD-810F standards
- IP67 rating
- Featuring Survey Pro software
- Two CompactFlash (CF) slots
- One Secure Digital (SDIO) slot
- 30-hour rechargeable battery
- Windows Mobile 5.0
- Optional integrated Bluetooth and 802.11g wireless

The field-proven TDS Ranger delivers military-grade durability with the features surveyors depend on. It meets rigorous MIL-STD-810F military standard for drops, vibration, humidity and extreme temperatures, and with an IP67 rating, it's impervious to water and dust, keeping your data safe. The Ranger features Survey Pro and its versatile Windows Mobile 5.0 software runs thousands of familiar programs. Integrated wireless capabilities let you connect to field equipment without bulky cables. Plus, with CF and SD slots, you can add multiple accessories and increase data storage.

The Ranger comes in three models. The economical 300X and the powerful 500X give you options without limiting any features. The Ranger NX, without CF and SDIO slots or wireless options, is our most affordable model.

MODELS OVERVIEW	500X	300X	NX
<b>PROCESSOR/SPEED</b>			
Intel XScale	520 MHz	312 MHz	312 MHz
<b>MEMORY</b>			
SDRAM	128 MB	64 MB	64 MB
Data storage (On-board Flash)	512 MB	256 MB	128 MB
<b>WIRELESS</b>			
Integrated Bluetooth	Standard	Standard	N/A
Integrated 802.11g	Optional	N/A	N/A

## STANDARD FEATURES

- Microsoft Windows Mobile 5.0
- 53 tactile keys with separate navigation, alpha and numeric keypads, plus 8+1 directional pad
- Touchscreen
- Battery life of 30 hours under normal operating conditions
- Complete recharge in 4.5 hrs (80% in 2 hrs)
- Battery charge status LED indicator
- Notification LED
- Rugged polycarbonate shell
- Integrated speaker and microphone

## 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 (952g) w/PowerBoot Module

## ELECTRICAL

### Processor

Intel PXA 270 XScale CPU

### Expansion

1x Type I and 1x Type II CompactFlash slots<sup>2</sup>

1x Secure Digital (SDIO) slot<sup>2</sup>

### Display

320 x 240 pixel (1/4 VGA) color TFT with LED backlight

### Power

Li-Ion rechargeable pack, 6600 mAh

<sup>2</sup> Not applicable to Ranger NX model.

## ENVIRONMENT

### Operating Temperature

-22 to 140 °F (-30 to 60 °C)

### Storage Temperature

-40 to 158 °F (-40 to 70 °C)

### Humidity

MIL-STD-810F, Method 507.4

### Water

IP67, sealed against accidental immersion (1 m for 30 min.)

MIL-STD-810F, Method 512.4, Procedure I

### Dust

IP67, MIL-STD-810F, Method 510.3, Procedures I & II

## I/O

### Ports

9-pin serial port—RS-232 (115 Kbps)  
USB client and host  
DC power port

## STANDARD SOFTWARE

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

## STANDARD ACCESSORIES

PowerBoot Module	Standard CF-Cap
AC charger	USB data cable
User's guide	Hand strap
Two stylus pens	Screen protectors

*NOTE: See Accessories section for complete list of optional accessories.*