



### KEY FEATURES

Designed for optical and GPS surveying

Advanced features for exceptional convenience, efficiency, and ease of use

Rugged specifications for superior performance and reliability

Your choice of powerful Trimble field software

The original Integrated Surveying™ system

#### AN INNOVATIVE WINDOWS CE .NET DEVICE

The Trimble® CU controller is an advanced detachable control unit especially designed for Trimble optical and GPS surveying systems<sup>1</sup>. On its Microsoft® Windows® CE.Net operating system, the Trimble CU controller runs your choice of powerful Trimble field software<sup>2</sup>, plus other specialized Windows software as needed.

#### SMART HARDWARE

Every innovative feature on the Trimble CU controller is designed to make your job easier. Clearly view background maps and check work on the color graphic display for greater data control and confidence. Access frequent functions via dedicated instrument control keys. Quickly select software options using the touch screen.

#### INTEGRATED BLUETOOTH WIRELESS TECHNOLOGY

Eliminate the hassle of cables and expedite setup with integrated Bluetooth® wireless technology. When the Trimble CU controller is used on a Trimble R8 or Trimble S6 rover, the system is 100% cable free for unsurpassed convenience and ease of use.

#### FLEXIBLE COMMUNICATION OPTIONS

Choose the method of data transfer that suits your situation. Using an external modem such as a cellphone with Bluetooth, you can send and receive files over the Internet while in the field: you don't need to drive back to the office. When in the office, the Trimble CU docking station provides fast data transfer to your computer.

The Trimble CU also provides USB and serial communication options.

Data can be transferred to a PC or another Trimble CU using a cable, Bluetooth, a CompactFlash Card reader, or a USB memory device.

#### BUILT FOR THE FIELD WHATEVER THE CONDITIONS

The Trimble CU controller is rugged enough for any job in any weather. It holds an environmental rating of IP55 and operates in extreme temperatures of -30 °C to +55 °C (-22 °F to +131 °F). It can also withstand a pole drop of 1.0 m (3.3 ft) onto a hard surface. The display and keyboard are illuminated, so you can finish any job fast even in low lighting.

The Trimble CU controller receives power from the optical instrument or the especially designed holder, which attaches to a robotic or GPS rover pole.

#### ONE CONTROLLER, ONE SOFTWARE, ONE INTERFACE, ONE JOB FILE

The Trimble CU controller is central to Integrated Surveying from Trimble. With software such as the Trimble Survey Controller™ software onboard, collect GPS and optical data in one Job file simply by switching the Trimble CU controller between sensors. Standardize on one flexible controller for maximized investment. And your survey team only needs to know one interface.

When field work is complete, simply transfer the Job file to your office using the communication method that suits. A surveyor's work flow has never been easier.



<sup>1</sup> The Trimble CU controller is designed to support Trimble's latest surveying systems, including the Trimble S6 Total Station and Trimble R8 GNSS system. The Trimble CU also supports the Trimble 3600/5500/5600 optical instruments via the Trimble CU Adapter.

<sup>2</sup> The Trimble CU controller runs the Trimble Survey Controller software. In addition, a number of regional solutions are available. For more information on the field software that's best for you, talk to your local Trimble Authorized Distribution Partner.

# TRIMBLE CU CONTROLLER

## TECHNICAL SPECIFICATONS

- Microsoft Windows Explorer
- Pocket Internet explorer
- Inbox e-mail client
- Microsoft WordPad
- Transcriber (handwriting recognition)
- Microsoft Windows Media Player
- Microsoft ActiveSync®
- Connect to Desktop
- File transfer (Remote)
- File viewers for Microsoft Image and Word

## USER INTERFACES, SOFTWARE AND RECORDING

### Trimble CU Controller

#### Attachable

- Direct ..... The Trimble CU can be attached to the Trimble S6 Total Station, Robotic holder, GPS holder, or docking station
- Via Trimble CU Adapter ..... Trimble 3600/5500/5600 Total Stations

#### Physical

- Size ..... 196 mm × 110 mm × 30 mm (7.7 in × 4.3 in × 1.2 in)
- Weight ..... 0.4 kg (0.88 lb)
- Memory ..... 64 MB SDRAM, 256 MB internal non-volatile storage memory
- Processor ..... 400 MHz Intel® PXA 255 ARM-Xscale CPU

#### Software

The Trimble CU controller runs the Trimble Survey Controller software. In addition, a number of regional solutions are available. For more information on the field software that's best for you, talk to your Trimble Authorized Distribution Partner.

#### CERTIFICATION

Class B Part 15 FCC certification, CE Mark approval and C-tick approval. Bluetooth type approvals and regulations are country specific.

## ENVIRONMENTAL

### Temperature

- Operating temperature ..... -30 °C to +55 °C (-22 °F to +131 °F)
- Storage temperature ..... -40 °C to +70 °C (-40 °F to +158 °F)
- Humidity ..... 100% condensing MIL-STD-810F
- Sand and dust ..... Protection against wind-driven according to MIL-STD-810F, and IP5X
- Water ..... IPX5
- Drops ..... 5 drops from 1.0 m (3.3 ft) onto hard surface

### Power

- Internal ..... Power back-up suspend mode to preserve files
- External
  - Direct ..... Trimble S6 Total Station, Robotic holder, GPS holder, or docking station
  - Via Trimble CU Adapter ..... Trimble 3600/5500/5600 Total Stations

### Interface

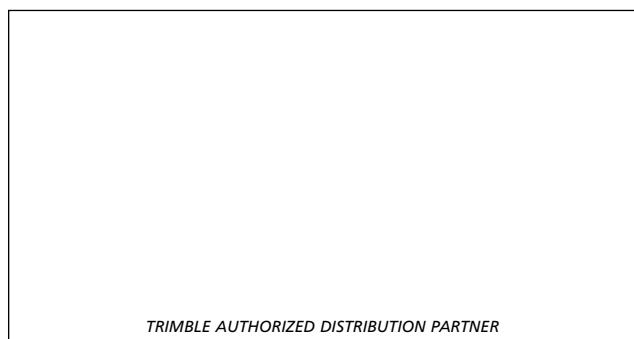
- Display ..... Color, illuminated TFT, daylight readable touch screen reflective color TFT- LCD; displayed at 320 × 240 pixels (QVGA) CCFL frontlight illuminated display
- Keyboard ..... 19-key alpha-numeric + 4-way arrow key, dedicated navigation and instrument control keys
- Audio ..... Integrated speaker for audio systems events, warnings and notifications
- Operating system ..... Microsoft Windows CE.Net

### INPUT/OUTPUT

- Data communication through Robotic holder, GPS holder or docking station ..... USB, RS-232 and Bluetooth
- External removable memory ..... USB memory device or CompactFlash card reader (optional)

© 2005-2007, 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. Integrated Surveying, and Trimble Survey Controller are trademarks of Trimble Navigation Limited. Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Trimble Navigation Limited is under license. All other trademarks are the property of their respective owners. PN 022543-099B (07/07)

Specifications subject to change without notice.



TRIMBLE AUTHORIZED DISTRIBUTION PARTNER

#### NORTH AMERICA

Trimble Engineering & Construction Group  
5475 Kellenburger Road  
Dayton, Ohio 45424-1099 • USA  
800-538-7800 (Toll Free)  
+1-937-245-5154 Phone  
+1-937-233-9441 Fax

#### EUROPE

Trimble GmbH  
Am Prime Parc 11  
65479 Raunheim • GERMANY  
+49-6142-2100-0 Phone  
+49-6142-2100-550 Fax

#### ASIA-PACIFIC

Trimble Navigation  
Singapore Pty Limited  
80 Marine Parade Road  
#22-06, Parkway Parade  
Singapore 449269 • SINGAPORE  
+65-6348-2212 Phone  
+65-6348-2232 Fax



www.trimble.com