

Trimble ACU Controller

A truly Integrated Surveying attachable color graphical controller, specially built for Trimble's 3600 and 5600 total stations, robotic operation and Trimble's 5800 RTK Rover

Key features and benefits

- Clips on to Trimble's total stations, robotic rovers, and 5800 GPS rover poles for improved flexibility
- Graphical color touch-screen display for improved quality assurance and control of your results
- Cable-free for more versatility in the field
- Advanced on-board software for all applications

Trimble's revolutionary ACU controller incorporates a sophisticated graphical display and Bluetooth™* technology. The result is a cable-free or on-board data collection solution that gives you even more flexibility than ever before.

The ACU is specifically designed to attach to Trimble field sensors—it simply clips on to your total stations, your robotic rovers, or your RTK GPS rover poles—whatever you are working with. The ACU provides a single user interface to the most advanced on-board applications available.

Graphical display

The easy-to-use, color touch-screen display provides you with ultimate control over your data. Instant results make light work of visualization, navigation, data selection, positioning, and stakeout. Errors and omissions are greatly reduced because you can thoroughly check your data in the field.

Cable-free

Built-in Bluetooth capability gives you a short-range cable-free solution at the pole—set up is quicker and cable hassles become a thing of the past.

Compatibility

The ACU controller provides a common user interface for all your fieldwork regardless of the type of measurement technique or sensor used.

The Trimble ACU is attachable to the "hot shoe" on the Trimble 5600 or 3600 Total Stations, Trimble 5600 robotic rover, and the Trimble 5800 RTK Rover pole.

USB, serial, and ethernet communications are provided as standard, giving you fast and flexible data transfer options. In addition, the ACU is Internet-capable, with an external wireless modem you can easily send and receive files while you're in the field.



One controller, one user interface, one data file, interchangeable color graphical control unit

Choice of software

The Trimble ACU offers you a choice of software: Trimble Survey Pro software from TDS, and Trimble Survey Controller™ software. In addition, the Windows CE operating system supports other specialized application software.

Built for the field

Trimble ACU is powered by the instrument, or the robotic/RTK rod holder. The internal battery provides one hour of stand-by operation when detached from the instrument or rover. Environmentally rated to IPX4, and able to withstand a drop of up to 1 meter (3.3 feet) onto a hard surface, the ACU is rugged enough for any job.

In addition the heated screen system allows for operation at extreme temperatures from -20° C (-4° F) to +55° C (122° F).

Dedicated instrument control keys provide rapid access to frequently used functions and minimize keystrokes during data, code, or attribute entry.

Both the color display and keyboard are illuminated so that you can keep working in low-light conditions. In full sunlight or total darkness the ACU is an all weather, all visibility controller for any time of the day or night.

Wide range of applications

The ACU is ideal for a wide range of survey and measurement applications, including:

- Topographic surveys
- High-accuracy GIS
- Engineering
- Construction
- Architecture
- Asset Management
- Mapping
- Cadastral

You can rely on Trimble's field-proven equipment to increase your productivity and streamline your field operations.

* Bluetooth type approvals are country specific. Contact your Trimble representative for more information.

** Available in North America only

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STANDARD FEATURES

- Integrated Bluetooth technology
- Operates with Trimble's 5700 and 5800 GPS receivers
- Attachable to Trimble 5600 and 3600 total stations
- Available with Trimble Survey Controller or Trimble Survey Pro software

SPECIFICATIONS

Power:	External power input from instrument or pole holder. Internal NiMH rechargeable stand-by battery for 1 hour. Connects to external power supply through any of its ports to charge the internal battery pack.
Size:	196 mm × 110 mm × 30 mm (7.71" × 4.33" × 1.18")
Weight:	560 g (1.23 lbs) including the internal battery pack
Temperature:	
Operating	-20° to +55° C (-4° to +131° F)
Storage	-30° to +70° C (-22° to +158° F)
Environmental:	Meets appropriate IEC 68, EN61000, MIL-STD-810E standards for temperature, moisture and immersion, dust and sand, drop test, shock, vibration and altitude.
Shock and vibration:	Withstands shocks and vibrations according to IEC, EN6100, and MIL-STD specifications.
Certification:	Class B Part 15 FCC certification, CE Mark approval and C-tick approval. Bluetooth type approvals and regulations are country specific. Contact your Trimble representative for more information.
MultiPort I/O:	26-pin RS-232 (115 kbps) COM2; Ethernet 10-BaseT; USB client, power in/out, audio in/out
Hirose I/O:	4-pin RS-232 COM1; power in
Memory:	128 MB non-volatile flash memory
Display:	Color, illuminated TFT, daylight readable touch screen 100 mm (3.9") reflective color TFT-LCD; displayed at 320 × 240 pixels (QVGA) CCFL frontlight illuminated display

Touch screen:	Passive touch screen, works with stylus or finger
Keyboard:	36-key tactile action, with navigation and dedicated instrument control keys. Full alphanumeric keyboard.
Audio:	Integrated speaker and microphone, external capability through Multiport.

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