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USER GUIDE

Trimble® M3 DR Series  
Total Station



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mode the Trigger key LED will flash once every other second, the face 2 display will be off. Unhook the top of the Trimble CU from the top edge of the panel attachment and the Trimble CU from the holder (1), figure 7.74. Press A to scroll to one of the following: -- Continue Then press C to continue the HA/VA collimation test. Measure two points on the face of the building. Push the lock release button on the bottom of the Trimble CU. Figure 4.41 (1) 2. With a smaller measuring area, these small objects can be easily missed. 62 Trimble S Series Total Station User Guide Setup 4 Clockwise = Down Counter Clockwise = Up Figure 4.34 Vertical position adjustment 3. Press A to scroll to the Firmware version and then press C. The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. Laser pointer -Current valuesHA: 0.0010 VA: 0.0012 C >>Continue Cancel 2. If the setup, tripod and/or tribrach is/are unstable the instrument servos might oscillate slightly in an effort to compensate for that instability. Fit the locking washer (d) and nut (e). Measure to the top ridge of the mark. Unscrew and remove the top part of the 360° prism. Angles observed in a single face are corrected for collimation errors, which eliminates the need to measure in both instrument faces. This product is covered by the following patents: CH 465584, CH 466800, CH 885399, DE 69005105, DE 69005106, DE 69706653.3, EPO 465584, EPO 466800, EPO 885399, J 2846950, J 3039801, SE 0203830-5, SE 524329, SE 524655, SE 8901219-9, SE 8901221-5, US 5229828, US 5313409 and US 6115112. >> Laser pointer Set laser pointer Set mode: Off C >> Next Set Trimble S Series Total Station User Guide 55 4 Setup 2. • Surepoint™ technology restores the instruments pointing after accidental bumps, vibration or wind. Connecting With Cable The TSC2 is connected from the Trimble S Series Total Station com port to the USB connector on the TSC2 using cable part number 73840001. Compare the angles between manual and Autolock aiming. Autolock enables the instrument to automatically lock on to a prism, and then follow it precisely as it moves. The Robotic Holder and the Trimble CU will be in suspend mode until suspend time out occurs. Trimble S Series Total Station User Guide Setup 4 Measuring the Instrument Height 4.1 There are two measurement marks on the side of the instrument. The constant from the bottom mark to the top mark (0.158 m/0.518 ft.) is added to the Hc to obtain the vertical instrument height from the ground mark to the trunnion axis (Ih). This eliminates inaccuracies caused by eccentricity and graduation. If the rod holder is to the left of the measuring beam, they will see a red flashing light; if they are to the right, they will see a green flashing light. Removing the Trimble CU from the instrument when in on mode will not damage the equipment, but files that are being saved or written when the Trimble CU is being removed might be damaged or lost. • Setup Radio settings Bluetooth device Reference HA Adjustments... Mounting the Trimble CU and Robotic holder in these situations is not recommended, and puts your equipment at risk of damage that is not covered by warranty. S6 The on-board camera integrates surveyed data with the live scene images, so you can verify the work that you've done before leaving the job site. This will give the radio 15 hours with a 2.4 Ah battery. DR 300+ 62.2 The DR 300+ is a pulsed laser distance unit that determines distances by precisely measuring the flight time of the transmitted light pulse. Figure 7.75 122 Attaching the Trimble Robotic Holder to the standard rod adapter Trimble S Series Total Station User Guide Options & Accessories 7 Detaching the Trimble Robotic Holder from the Rod 70.2 1. Trimble S Series Total Station User Guide Setup 4 Robotic Mode 41.2 The TSC2 is connected directly to the instrument via the built in radio. Push the bottom of the Trimble CU toward the panel attachment until it clicks into place, Figure 4.40 70 Trimble S Series Total Station User Guide Setup 4 (( (Figure 4.40 (CLICK ))) Attaching the Trimble CU Detaching the Trimble CU C 4.1 Caution - When the Trimble CU is removed from the instrument it is recommended to have the Trimble CU in suspend or off mode. Push the lock release button on the bottom of the Trimble CU (1) and lift the bottom of the Trimble CU away from the holder (2). Slide the battery upwards. Extra Adapter \* Trimble 73838001 Cable \* Trimble 73840019 Cable \* Trimble 51005007 Wrench \* QTY. Press A to scroll to one of the following: New observation. See Laser Safety on page v. Do not try to make the adjustment using a prism, the reflected light from a prism can be dazzling. It is however important to make collimation test for both axes. When you have found the setting of your choice press A to select Set and then press C to store this setting. Fit the battery on to the hooks on the holder (1). You must then change the battery within two hours to prevent losing instrument parameters and functions such as instrument height, target height, coordinates, bearing, and dual axis compensation. The trunnion axis tilt correction value is then applied to a correction to the horizontal angle value and an automatic re-pointing of the telescope using Surepoint™ technology. Depending on the settings in the Trimble CU operating system the instrument will turn off or go to suspend mode. The Trimble S Series Total Station also utilizes Surepoint™ to automatically correct the pointing of the telescope for any mislevelment and trunnion axis errors in real time during operation. The radio for the TSC2 is also available as an optional integrated 2.4 GHz radio module. Press A to scroll to Change face. All rights reserved. - Change face. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: - Reorient or relocate the receiving antenna. -AdjustmentsBack... Due to the high speed position servo and the SurePoint® technology used in the Trimble S Series Total Station it is important to use a high quality tripod and tribrach. Aiming 71.1 The adjustment between the two optical axes, the telescope and the tracker, may differ. The active LED rings support the selection of a unique ID to ensure that 8 different targets can be operated on a single site with full confidence that the correct target is always used. See Aiming on page 103 1. DC Input Via country specific adapter to mains power AC/DC Converter Figure 6.58 Charger and battery Trimble S Series Total Station User Guide 99 6 Instrument Technology B Tip - The battery charger can also be used to charge the Trimble 7.4 V Li-Ion batteries, see figure Figure 6.59 Figure 6.59 Trimble 7.4 V Li-Ion Battery Low Message 64.4 If the battery capacity drops too low, the Bat Low message appears in the Trimble CU display window and the instrument shuts down. The Target ID is powered by two AA size batteries that will operate the unit for approximately 12 hours continuous use. C 100 Caution - Use only the gray cables with 6-pin Hirose connectors from Trimble when connecting a cable to the instrument. Press the catch towards the radio. You will then be returned to the Adjustments menu. The Robotic Holder and Trimble CU will also turn on if you connect +12 V or data communication cable to the side connector. Accurately aim towards a prism. When Autolock is enabled, the instrument automatically locks onto and tracks the target. Figure 7.60 The Trimble S Series Total Station Autolock function. The TSC2 has built in Bluetooth wireless technology. Repeat this process for a minimum of 5 sightings in face 2. If the instrument is well adjusted, the red laser pointer coincides with the line of sight. Angles returned to the instrument at 1000 Hz, are averaged over the 1.2-second period to obtain an averaged angle measurement. The power management system includes the internal battery, optional external battery pack and the Trimble battery charger. For more information, refer to the field software documentation. For vertical angles outside of this range it is recommended to use passive mode or to use a tiltable target to ensure the most precise results. In the Trimble S Series Total Station, a pre-measurement collimation test is performed to determine the collimation errors. If not used for 300 seconds (5 min.) the instrument will go to Suspend mode. See figure 7.60 B Tip - To assure maximum performance from the Autolock technology keep the lens clean and dry. The vertical collimation error is the difference between the vertical circle zero and the plumb axis of the instrument. Press A to scroll to New observation and then press C. and any use of such marks by Trimble Navigation Limited is under license. Pull the battery away from the battery holder 3 Figure 7.81 Removing battery from external radio Trimble S Series Total Station User Guide 127 7 Options & Accessories Radio Antenna Extension Kit 7.1 For extended radio range it is possible to fit an antenna extension kit to get the radio antenna to a higher position on the rod where it is clear from obstruction by the user or the rod itself. Features 71.1 1 Battery compartment 5 On/Off and battery low indicator LED 2 Battery locks 6 Position indicator 3 5/8" Thread 7 Circular level 4 Channel select (on/off switch) Trimble S Series Total Station User Guide 109 7 Options & Accessories Measures 71.2 Fitting and Removing the Battery 71.3 To fit the battery, push the battery in to the battery compartment (1) with the battery connectors (2) facing upwards and inwards until the battery locks clicks (3) in place. Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. The DR 300+ distance unit includes additional functions that allow you to control the accuracy and precision of a DR measurement through calibrated photo documentation provides customers with deliverables they know they can trust. e. Suspend Mode In the suspend mode the TriggerKey LED will flash once every other second, the face 2 display will be off. TSC2 Figure 4.45 TSC2 connected to the S Series Total Station using the inbuilt radio for robotic measurements. The rod contains the following features: • • • • Graduated scale in meters and feet. External influences such as shock or large temperature fluctuations can displace the shock or laser pointer relative to the line of sight. To calculate the total target height (Th), insert the measured slope distance (Hm) into the formula below: 2 Th = 0.158 \* Hm - 0.091 2 Trimble S Series Total Station User Guide 115 7 Options & Accessories Trimble Robotic Holder The Trimble Robotic Holder holds the Trimble CU when the instrument is operating in robotic mode. This will only turn off the instrument. Then press C to change face. Press C to measure and record angles. C Compensator calib. To remove the battery, slide the battery locks open (4). The battery can now slide out of the battery compartment (5). Clockwise = Left Counter Clockwise = Right Figure 4.35 Horizontal position adjustment Trimble S Series Total Station User Guide 63 4 Setup 4. Lift the bottom of the Trimble CU away from the instrument, Figure 4.41 (2) Trimble S Series Total Station User Guide 71 4 Setup 2 1 Figure 4.41 Push to unlock Detaching the Trimble CU 3. For more information, refer to the field application software documentation. The capacity of the battery is 4.4 Ah. External Power Supply 64.2 The Trimble S Series Total Station instrument has two external ports in the base of the instrument; one for communication and one for an external power supply. Figure 7.85 130 Attaching the handle Trimble S Series Total Station User Guide Options & Accessories 7 Figure 7.86 Securing the handle Detaching the handle: Detaching the handle is done by reversing the operation followed in attaching the handle. See figure 6.48 Trunnion axis tilt error Figure 6.48 Trunnion axis tilt error In the Trimble S Series Total Station instrument, perform a pre-measurement trunnion axis tilt test to determine the trunnion axis tilt error. Use the car battery cable to connect the 12 V battery to the external power port on the S Series Total Station. N 324 Canada This Class B digital apparatus complies with Canadian ICES-003 This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications. Note - During startup the Trigger key LED will flash once every second. Fit the new screws (a) in the handle. Australia and New Zealand This product conforms with the regulatory requirements of the Australian Communications Authority (ACA) EMC framework, thus satisfying the requirements for C-Tick Marking and sale within Australia and New Zealand. 20 hours Robotic holder with one internal battery 13.5 hours Operating time video robotic One battery 5.5 hours Three batteries in multi-battery adapter 17 hours Weight Instrument (servo/Autolock) 5.15 kg (11.35 lb) Instrument (Robotic) 5.25 kg (11.57 lb) Trimble CU controller 0.4 kg (0.88 lb) Tribrach 0.7 kg (1.54 lb) Internal battery 0.35 kg (0.77 lb) Trunnion axis height 196 mm (7.71 in) Communication USB, Serial, Bluetooth® Robotic Surveying Autolock and Robotic Range Passive prisms 500 m-700 m (1,640-2,297 ft) Trimble MultiTrack Target 800 m (2,625 ft) Autolock pointing precision at 200 m (656 ft) (Standard deviation) Passive prisms > Select language 58 - Language Menu - C Trimble S Series Total Station User Guide Language: ENG cancel next set Setup 4 Exit Menu 40.1 1. The supplied battery is designed for use in the Trimble S Series Total Station instrument and features: • Battery gauge to easily check power supply • Rugged design • One battery type for Trimble S Series Total Station instrument and accessories. Trimble Surepoint Accuracy Assurance The Trimble S6 Total Station aims and stays on target through windy weather, vibrations, handling, and sinkage. Turn the instrument 200 grads (180 degrees). - Note - The instrument will prohibit a trunnion axis tilt test if it is made towards a point with an angle less than 15 grads (13.5 degrees) from the point where the collimation test was made. Caution - Do not use the laser pointer as an aid when searching for prisms, the reflected light can dazzle your eyes. This is useful when measuring to poor reflective surfaces, or when trying to achieve the maximum range of the instrument. -- Laser Pointer The laser pointer is a visible laser that is emitted from the telescope along the line of sight. The distance meter is then tuned to provide a distance within the specified range and to ignore any signal from outside the defined range. The measured calibration values are stored and used until a new set of calibration values are determined. On Mode In the on mode the Robotic Holder will be on. Note - The adjustment between the two optical axes, i.e. the Telescope and the Tracker, may differ. To avoid faulty measurements using the laser pointer, use the supplied correction Select Trunnion coll. Tracklight consists of a flashing two-colored light, with each color lying in its own lateral projection sector. Pull the battery lock mechanism away from the battery (1). 86 Trimble S Series Total Station User Guide Instrument Technology 6 • Min-Max Range. The spring lock will hold the Target ID in place. The screws tighten automatically after you adjust them. Trimble S Series Total Station User Guide 123 7 Options & Accessories Radio Internal Radio 71 71.1 The Trimble S Series Total Station has an internal radio to support robotic operations. The prism target must be very still during the test (Trimble recommends that you use a tripod or bipod mount for the target) and must be in clear line of sight without any obstructing traffic. Eliminate Search Time With GPS Search With GPS Search The Trimble S6 locks onto a prism in just seconds. (±0.328 ft.). The laser pointer is coaxial with the line of sight of the telescope. Autolock Collimation (Only on Instruments With Autolock Capability) The instrument tracker unit is designed to be coaxial with the instrument cross hairs. Note - If the trunnion axis tilt correction value is greater than 0.05 grads (0.045 degrees), the message Fail Remeasure? Correction for Collimation Errors 61.2 The horizontal collimation error is the deviation of the sighting axis from its required position at right angles to trunnion axis. Each LED corresponds to a power level of 25% so that when the power level is at 100%, all four LEDs are lit. Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada. Internal Power Supply 64.1 The primary power supply for the Trimble S Series Total Station instrument is a rechargeable, removable Lithium-ion battery. In clear sky, enjoy the high productivity of GNSS measurements. Press A to scroll to one of the following: Trunnion coll. Then press C to return to the Adjustments menu 6. Trimble S Series Total Station User Guide 89 6 Instrument Technology Tracklight 6.1 Tracklight® is a visible guide light that enables the rod holder to position themselves into the instruments current line of sight. However, there is no guarantee that interference will not occur in a particular installation. For product recycling instructions and more information, please go to www.trimble.com/ev.shtml. With the industry's most advanced technology and available feature set, the Trimble S6 Total Station will meet the changing needs of your business, allowing your investment to go further. Hard-to-reach or unsafe targets are no obstacle to the Trimble S6. To turn the instrument on press the Trigger key for 1 second or turn on the instrument from a remote application. d. The battery is a Trimble 7.4 V Li-Ion battery. Instrument with Trimble CU Connected 63.2 Off Mode In the off mode the Trigger key LED and face 2 display is off. See figure 7.71 1 2 Figure 7.71 Attaching a battery to the Trimble Robotic Holder Detaching a Battery 1. Connect the USB memory through the USB dongle cable to the external communications port on the Trimble Robotic Holder. The antenna extension kit consists of: Item Description a Antenna holder b Antenna cable c Washer d Locking washer e Nut 1 2 3 4 5 e a d c b Figure 7.82 Fitting the antenna extension kit. The pulses reflect off the target surface and return to the instrument where the unit determines the time difference between the transmitted pulses and the received pulses. The laser may require periodic adjustment to keep it perfectly aligned for measurement. To turn the instrument off press the Trigger key for 3 seconds. - 50 Trimble S Series Total Station User Guide Setup 4 - Cancel. 2 1 Figure 7.80 Removing battery from external radio 3. Fixed target height positions 360 ° prism comprising 7x25 mm prisms, prism constant 2 mm Leveling bubble Target id with mini rod (optional) can be fitted The integrated mini rod can be easily connected to the standard rod or a conventional rod using the mini pole adapter The target height from the tip of the mini rod to the center of the prism is 0.115 m (0.377 ft.).

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