# Draft

# Important safety information

**In this chapter:**

⚠️ **WARNING**- Before you use this product, make sure that you have read and understood all safety requirements. Failure to follow these safety instructions could result in fire, electric shock, or other injury, or damage to the Geo 7 handheld or other property.

# Geo 7 handheld safety information

## Charging the battery

To charge the handheld's battery, use only the following authorized Trimble accessories:

- the Geo 7 series AC power adaptor (PN {xxxxx-xx}) with the correct international plug converter for your region

- the Geo 7 series 12V DC power adapter when charging from a 12V vehicle PN {xxxxx-xx}

- another Trimble branded AC or DC power adaptor designed and approved to work the Geo 7 handheld

Using any other AC adaptor can damage the handheld and may void your warranty. Do not use the AC adaptor with any other product.

For more information, see Charging the battery, page 16.

⚠️ **WARNING** - To use power adaptors safely:
- Ensure the input voltage on the adaptor matches the voltage and frequency in your location.
- Make certain that the adaptor has prongs compatible with your outlets.
- Do not use the adaptor in wet outdoor areas .
- Unplug the AC adaptor from power when not in use.
- Do not short the output connector.
- Be aware that there are no user-serviceable parts in this product.
- If the adaptor becomes damaged, replace it with a new Trimble adaptor.

## Exposure to radio frequency radiation from Bluetooth and Wi-Fi transmitters

The Geo 7 series is approved as a portable device with respect to Radio Frequency (RF) exposure compliance. The radiated output power of the internal wireless radio transmitters is less than 100 milliwatt, which results in exposure levels far below the FCC radio frequency exposure limits, even when operated in close proximity to the body. The internal wireless radios operate within guidelines found in international radio frequency safety standards and recommendations, which reflect the consensus of the international scientific community. Trimble therefore believes the internal wireless radios are safe for use by users. The level of electromagnetic energy emitted is hundreds of times lower than the electromagnetic energy emitted by wireless devices such as mobile phones. However, the use of wireless radios may be restricted in some situations or environments, such as on aircraft. If you are unsure of restrictions, you are encouraged to ask for authorization before turning on the wireless radios.

## Exposure to radio frequency radiation from cellular wireless transmitters

The Geo 7 series handhelds are equipped with wireless cellular modem radios and have been designed and manufactured to meet safety requirements for limiting exposure to radio waves. When used in accordance with the instructions set forth in this manual, the equipment has been independently verified to not exceed the emission limits for safe exposure to radio frequency (RF) energy as specified by the Federal Communications Commission of the U.S. Government in 47 CFR §2.1093.

These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organization through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

For body worn operation, ensure the device position is a minimum of 1.0 cm from your body when the device is switched on, with no metal structures contained in the carrying accessory.

## Electrostatic discharge

The Geo 7 series is designed for outdoor conditions; however under conditions of low humidity extremely high voltage discharge events are possible. Users are advised that the risk of causing discharge to sensitive electronics can be minimised by avoiding finger contact to the connectors on the sides of the unit.

**WARNING** - Static electricity can harm electronic components inside your handheld. To prevent static damage:
- Discharge static electricity from your body before you touch any of the electronic components inside your device, such as a memory module. You can do so by touching an unpainted metal surface.

## Battery

Charge the battery before using it for the first time. If the battery has been stored for longer than six months, charge it before use. See Charging the battery, page 16

**WARNING** - Do not damage the rechargeable Lithium-ion battery. A damaged battery can cause an explosion or fire, and can result in personal injury and/or property damage. To prevent injury or damage:
– Do not use or charge the battery if it appears to be damaged. Signs of damage include, but are not limited to, discoloration, warping, and leaking battery fluid.
– Do not store or leave your device near a heat source such as near a fireplace or other heat-generating appliance, or otherwise expose it to temperatures in excess of 70 °C (158 °F) such as on a vehicle dashboard. When heated to excessive temperatures, battery cells could explode or vent, posing a risk of fire.
– Do not immerse the battery in water.
– Do not use or store the battery inside a vehicle during hot weather.
– Do not drop or puncture the battery.
– Do not open the battery or short-circuit its contacts.

⚠ **WARNING** -Avoid contact with the rechargeable Lithium-ion battery if it appears to be leaking. Battery fluid is corrosive, and contact with it can result in personal injury and/or property damage. To prevent injury or damage:
– If the battery leaks, avoid contact with the battery fluid.
– If battery fluid gets into your eyes, immediately rinse your eyes with clean water and seek medical attention. Do not rub your eyes!
– If battery fluid gets onto your skin or clothing, immediately use clean water to wash off the battery fluid.

⚠ **WARNING** -Charge and use the rechargeable Lithium-ion battery only in strict accordance with the instructions. Charging or using the battery in unauthorized equipment can cause an explosion or fire, and can result in personal injury and/or equipment damage. To prevent injury or damage:
– Do not charge or use the battery if it appears to be damaged or leaking.
– Charge the Lithium-ion battery only in a Trimble product that is specified to charge it. Be sure to follow all instructions that are provided with the battery charger.
– Discontinue charging a battery that gives off extreme heat or a burning odor.
– Use the battery only in Trimble equipment that is specified to use it.
– Use the battery only for its intended use and according to the instructions in the product documentation.

## Distraction

Using the Geo 7 series in some circumstances can distract you and may cause a dangerous situation. Observe rules that prohibit or restrict the use of mobile devices (for example, avoid operating the device while driving a vehicle).

## Repairing

Don't attempt to repair the Geo 7 series yourself. Disassembling the product may cause injury to you or damage to the handheld. If the handheld is damaged or malfunctions, contact an Authorized Trimble Service Provider. You can find more information about getting service at {link to FAQ or Service website}.

# Integrated Laser Rangefinder module safety information

The Geo 7 series handheld may be fitted with an integrated Trimble Geo 7 series Laser Rangefinder module (model number 88185). The module produces visible and invisible laser beams, which are emitted from the instrument. It is a Class 2 laser product in accordance with IEC60825-1 : 2007 "Radiation safety of laser products". Eye protection is normally afforded by aversion responses including the blink reflex.

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
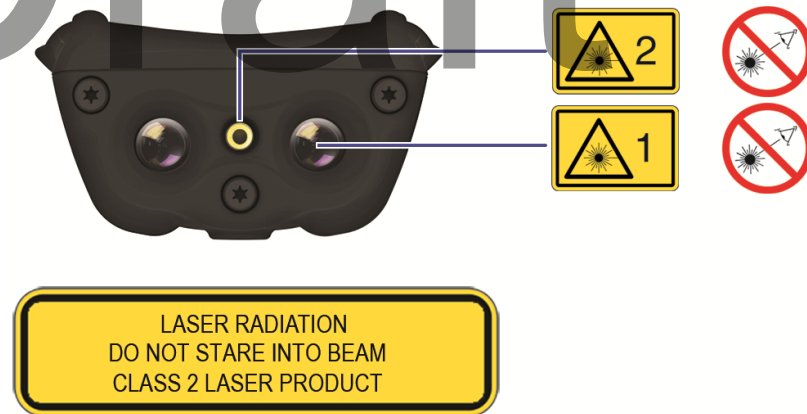
Invisible laser radiation: 905 nm,0.35 µJ max per 8.6 ns pulse at 40Hz max.

Visible laser radiation: 655 nm, 0.7 mW max.

**FDA Laser Notice No. 50 statement** The device (model number 88185) complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

> ⚠ **WARNING**- Do not stare into the laser beam or direct it towards other people unnecessarily.
> - Looking directly into the beam with optical aids (for example, binoculars, telescopes) can be hazardous.
> - Looking into the laser beam can be hazardous.

# Important handling information

Geo 7 series handhelds are rugged and resistant to damage during operation in harsh environments and conditions. However, you should take care of your handheld to maximize its life and performance.

To protect the Geo 7 series handheld when not in use, Trimble recommends storing the handheld in the pouch provided.

When using the handheld:

- To protect the touch screen from pressure and abrasive objects, Trimble recommends that you apply one of the screen protectors provided with the Geo 7 series handheld.

- Protect the touch screen by using your finger or the stylus provided, and avoid using excessive pressure and sharp or abrasive objects.

- Keep the outer surface free of dirt and dust.

- Ensure that protective covers and doors are appropriately fitted to the external antenna port, SIM, and storage card areas, so that they are protected from dirt, dust, fluid ingress & electrostatic discharge.

- Protect the handheld from extreme temperatures. For example, do not leave the handheld on the dashboard of a vehicle.

- When the battery is removed, the handheld is not waterproof. Avoid exposing the internals of the handheld to dust and moisture when removing the battery. Trimble recommends that you only swap the battery indoors or from inside a vehicle.

- Use the hand strap provided with the Geo 7 series handheld.

- To clean the handheld, wipe it with a clean dry cloth. Do not immerse the handheld in water.

## Extreme temperature environments

The Geo 7 series is designed to work in ambient temperatures between -20° and 60° C and stored in temperatures between -30° and 70° C. The Geo 7 series can be damaged and battery life shortened if stored or operated outside of these temperature ranges. Avoid exposing the handheld to dramatic changes in temperature or humidity. When you are using the Geo 7 series or charging the Geo 7 series battery pack, it is normal for the device to get warm.

If the interior temperature of the Geo 7 series exceeds normal operating temperatures (for example, in a hot car or in direct sunlight for extended periods of time), you may experience the following as it attempts to regulate its temperature automatically:

- The handheld stops charging

- If the handheld can't regulate its internal temperature, it goes into sleep mode until it cools. Move the handheld to a cooler location out of direct sunlight and wait a few minutes before trying to use the device again.

# Support and troubleshooting

**In this chapter:**

This chapter provides support contacts, and information on common problems that may occur when using the Geo 7 series handheld. Please read this section before you contact technical support.

## Restarting and resetting the Geo 7 handheld

If something is not working as expected, try closing and reopening the application, or restarting or resetting the Geo 7 handheld.

To force an application to closem, tap [icon] / *Settings* / *Task Manager*. Select the application you want to close, then tap **End Task**.

If you cannot force the application to close, or if closing and restarting the application does not fix the problem, try restarting the Geo 7 handheld.

To restart the handheld, press the **Power/Home** button to go to the *Home* screen, then press the **Power/Home** button again to launch the *Power* menu. Tap **Restart**.

If you cannot turn off or restart the handheld, you may need to perform a hard reset. This forces the operating system to reboot, but may cause unsaved data to become corrupted. A hard reset should be done only if the unit is otherwise unresponsive.

To hard reset the handheld, hold down the **Power/Home** button for at least 10 seconds until the Trimble logo screen appears.

*Note – You can also hard reset the Geo 7 handheld by removing the battery.*

If hard resetting the handheld does not help, you may need to completely restore your handheld back to its original settings by performing a factory reset. You should only restore your Geo 7 handheld to factory settings if all other attempts to solve the problem fail. Restoring to factory settings will erase all applications and data stored on the internal storage on the Geo 7 handheld.

To perform a factory reset, hold down the **Power/Home** button to reset the handheld. When the Trimble logo screen appears, press both the left and right application keys. The F*actory Reset* menu appears. Follow the instructions on the screen.

## Updating the Geo 7 handheld operating system

You can update the Geo X operating system and firmware when updates are available by downloading them from {Geo 7X OS updates site url}. Usually updates are available as patches, but major updates may be available as complete operating system downloads.

For information about erasing all content and settings, and restoring your Geo 7 to its factory state, see Restarting and resetting the Geo 7 handheld, page 101
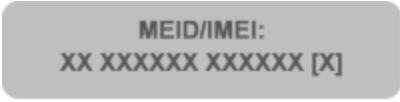
## Finding service and support information

| To learn about | Do this |
|---|---|
| Using Geo 7X safely | See Geo 7 handheld safety information, page 95 |
| Registering your Geo 7X handheld | Contact your local dealer or go to www.trimble.com/register to receive information regarding updates and new products |
| Finding your Geo | You can find your Geo 7 series handheld's serial number, International Mobile |

| To learn about | Do this |
|---|---|
| 7X serial number, UUID, IMEI or MEID | Equipment Identity (IMEI), ICCD, or Mobile Equipment Identifier (MEID) on the Geo 7 device label. Or, go to Start > Settings > System > System Information. MEID/IMEI label:<br><br>**MEID/IMEI:**<br>**XX XXXXXX XXXXX [X]**<br><br>The MEID ID number is the first 14 digits on the MEID/IMEI label. The IMEI number is all 15 digits on the label.<br>For more information, go to {Geo7X technical support webpage} |
| Service and support from your carrier | Contact your carrier or go to your carrier's website. |
| Using TerraSync | Go to www.trimble.com/mappingGIS/TerraSync.aspx |
| Using TerraFlex | Go to www.trimble-terraflex.com/info |
| Geo 7 handheld service and support, tips, and downloads | Go to {Geo 7X support url} |
| Technical support | Go to {Geo 7X support url}. If you cannot find the information that you need, contact your Trimble reseller (go to dealerlocator.trimble.com). |
| The latest information about the GeoExplorer series | Go to {generic GeoExplorer url} |
| Obtaining warranty service | First, follow the advice in this User Guide, then go to {Geo 7X support url} |
| Geo 7 series compliance information | See Regional compliance information, page 120. |
| Purchasing replacement and additional accessories | Contact your local Trimble GeoExplorer reseller. Go to dealerlocator.trimble.com |
| Windows error reporting | If for any reason a Microsoft® Windows Error Reporting dialog appears, indicating that the handheld or Trimble field software has encountered a problem and needs to close, you are prompted to send an error report to Microsoft.<br><br>Trimble recommends that you click **Send** and then click any subsequent links that are used to obtain additional information.<br><br>Trimble can access the report that is sent to Microsoft and use it to improve the Geo 7 series. |

## Geo 7 handheld support site

Comprehensive support information is available online at {support url for Geo 7X}.

To contact Trimble for personalized support (not available in all areas), go to www.trimble.com/support/.

## Power issues

| Problem | Cause | Solution |
|---------|-------|----------|
| The handheld does not turn on. | The battery is flat. | Recharge the battery. See Charging the battery, page 1. |
| | The Power button is not working. | Contact your Trimble reseller. |
| The handheld turns on only when connected to a power source. | The battery is not charging or holding its charge. | Charge the battery for at least 15 minutes. If it still fails to turn on, reset the handheld. See Restarting and resetting the Geo 7 handheld, page 101<br>If this still fails, the battery may need replacing. See Replacing batteries, page 19. |
| The screen is blank. | The handheld is turned off. | Press the Power button to turn on the handheld. See Turning on the handheld for the first time, page 21. |
| | The handheld has locked up. | Reset the handheld. See Restarting and resetting the Geo 7 handheld, page 101 |
| The handheld is not charging. | The internal temperature has risen above the allowed maximum for charging the battery. | Do one or all of the following:<br><br>• Turn off the integrated radios before charging the handheld. See Turning on and turning off the wireless radios, page 1, Using the Wireless Manager, page 52.<br><br>• Suspend the handheld before charging. See Using Suspend mode, page 33.<br><br>• Remove the handheld from any external heat sources (for example, sunlight). The handheld will automatically start charging again when the internal temperature has dropped below the range for charging the battery. |
| | The handheld is connected to a computer which is turned off, or in sleep mode. | This may drain the handheld's battery, and the battery will not charge. |
| | The USB Power adaptor / cable is | Try another USB Power adaptor / cable. |

| Problem | Cause | Solution |
|---|---|---|
| | faulty. | |
| The battery power percentage bar does not appear in the Power control. | The battery has 0% power. | Recharge the battery. See Charging the battery, page 16. Once the battery level is above 0%, the battery power percentage bar reappears. Tap *[icon]* / *Settings* / *Power* / *Battery* to view the level of power remaining in the battery. |
| Under some circumstances the AC adapter may be faintly audible at close proximity. | The AC adapter is a highly efficient adapter which is required to operate at very low audible duty cycles when unloaded so as not to waste energy | There is no safety issue related to the faint noise. In the event of a disconcerting noise, disconnect the mains adapter from the mains as soon as a battery charge is complete. |
| The charge level of the battery drops when the handheld is turned off. | The handheld was left in Suspend mode or was left fully charged for a long duration. | Before storing the handheld, completely shut down the handheld. See Turning on the handheld for the first time, page 21. |
| | The handheld was left in suspend mode with a wireless radio turned on. | Before suspending the handheld, use the Wireless Manager to turn off all wireless radios. Make sure that all the radios are turned off after suspending the handheld. See Using the Wireless Manager, page 52. |
| The low-battery icon *[icon]* is displayed and the handheld is unresponsive. | The battery charge is low. | Charge the handheld for at least 15 minutes. The Charging icon *[icon]* should appear. If the low-battery icon is still displayed on the screen, turn off the handheld and then turn it on again. If the problem remains, reset the handheld (with the Power adaptor / cable still connected). See Turning on and turning off the handheld, page 1, Restarting and resetting the Geo 7 handheld, page 101. |
| Battery life is short. | The battery was not fully charged. | Make sure you fully charge the battery. Do not charge it from a keyboard, or connected to a computer which is turned off, or in sleep mode. See Charging the battery, page 1Restarting and resetting the Geo 7 handheld, page 101 |
| Battery LED is not behaving as expected. | | Reset the handheld. See Restarting and resetting the Geo 7 handheld, page 101 |

## Backlight issues

| Problem | Cause | Solution |
| --- | --- | --- |
| The backlight does not come on when you tap the screen or press a button. | The backlight is not set to turn on in the Backlight control. | Tap ⊞ / *Settings* / *System* / *Backlight* to view the Backlight control, and make sure that the *Turn on backlight when a button is pressed or the screen is tapped* check box is selected.<br><br>Tap ⊞ / *Settings* / *System*/ *Backlight*and then select the *Brightness* tab to view the Brightness control, and make sure that the brightness is not set to Dark (slider positioned far left). |
| The screen is blank or hard to see. | The backlight is off. | Tap the screen or press a button. |
|  | The backlight level needs to be adjusted. | Tap ⊞ / *Settings* / *System* / *Backlight* and then select the *Brightness* tab to view the Brightness control and then adjust the slider. |

## Touch screen issues

| Problem | Cause | Solution |
| --- | --- | --- |
| The touch screen does not respond to finger or stylus taps. | The touch screen is incorrectly aligned. | Realign the screen. See Changing screen settings, page 40 |
|  | The touch screen is locked. | To unlock the touch screen, slide the Unlock icon. |
|  | The handheld has locked up. | Reset the handheld. See Restarting and resetting the Geo 7 handheld, page 101. |
| The screen is blank. | The handheld is turned off. | Press the Power button to turn on the handheld. |
|  | The battery is flat. | Recharge the battery. See Charging the battery, page 16. |
|  | The handheld has locked up. | Reset the handheld. See Restarting and resetting the Geo 7 handheld, page 101. |

| Problem | Cause | Solution |
|---|---|---|
| The screen is hard to see. | The brightness level needs to be adjusted. | Open the Brightness control and then adjust the brightness level (see Adjusting the display brightness, page 44). |
| | The backlight is off. | Tap the screen to turn on the backlight. |
| | You are unable to see parts of an application windows when the screen is in landscape orientation. | Some applications are designed for portrait orientation only. To view the entire application window, change the screen display to portrait. See Changing screen settings, page 40 |
| There are bright or dark pixels, lines in videos, or sections of video missing. | It may be an issue with the content you are viewing. | Turn off the handheld, and turn it back on. Or reset the handheld. See Restarting and resetting the Geo 7 handheld, page 101. |
| The touch screen does not switch between landscape and portrait mode when handheld is rotated. | Handheld is set to either Portrait or Landscape, and does not switch mode automatically when the handheld is rotated. | Set either Portrait or Landscape : tap  / *Settings* / *System* / *Screen*. |

# Speaker and microphone issues

| Problem | Cause | Solution |
|---|---|---|
| Poor sound through the speaker, or the microphone. | Water has pooled in the speaker. | If the handheld has been in rain or immersed in water, turn the handheld so that it is face-down, then shake it to expel the water from the speaker / microphone cavity. Allow it to dry. |

# Storage card issues

| Problem | Cause | Solution |
|---|---|---|
| The handheld does not recognize a storage card. | The handheld does not support SDIO (SD input/output) cards. | Use an SD or SDHC card. |
| Files on the storage card are not visible or are not able to be opened. | Files have been encrypted on another device and have a .menc file extension. | Remove encryption from the files. See Encrypting files on memory cards, page 46. |

## Keypad issues

| Problem | Cause | Solution |
| --- | --- | --- |
| Pressing the application key does not activate the function shown on the tile above it. | The hardware application key has been programmed to run another program or to perform another action. | Do one of the following:<br>• Tap the touch screen tile to activate the function shown on the tile.<br>• Re-program the application key to perform the same action as the touch screen tile. See Changing button assignments, page 43. |

## Connection issues

### Network connections

| Problem | Cause | Solution |
| --- | --- | --- |
| The connection with the cellular phone suddenly ends. | If you change the proxy settings of the handheld while connected to a cellular phone, the cellular phone ends the connection. | Make any changes to proxy settings before connecting to a mobile device. |
| Unable to connect to another Geo 7 series handheld. | Data encryption settings are set incorrectly. | When setting up a peer-to-peer ad-hoc network with a WEP encryption, set a Network Key, rather than leaving the key blank to be provided automatically. |

### Windows Mobile Device Center

| Problem | Cause | Solution |
| --- | --- | --- |
| Windows Mobile Device Center will not connect to the handheld. | The connection is not initiated automatically. | In the Windows Mobile Device Center software on the office computer, select *Mobile Device Settings / Connection Settings*. |
| | The Windows Mobile Device Center software does not recognize the Geo 7 series handheld. | Restart the office computer. Disconnect the handheld from the office computer, reset it (see Restarting and resetting the Geo 7 handheld, page 101) and then reconnect it to the office computer. |

| Problem | Cause | Solution |
|---------|-------|----------|
| | The connection is not enabled in Windows Mobile Device Center on the computer. | In the Windows Mobile Device Center software on the office computer, click *Mobile Device Settings* / *Connection Settings*. If you are using:<br><br>• a USB cable, make sure that the *Allow USB connection* check box is selected from the drop-down list.<br><br>• a Bluetooth connection, make sure that the correct port for Bluetooth is selected. Then open the Bluetooth control on the handheld. In the *Devices* tab, tap the partnership and in the services list make sure that the *ActiveSync* check box is selected. |
| | The connection is not enabled on the handheld. | On the handheld, tap / *ActiveSync* / *Menu* / *Connections*. Make sure that the *Synchronize all PCs using this connection* check box is selected, and that the correct option is selected. |
| | The handheld connection settings conflict with network settings or VPN client software. | If you are using a USB cable, use the USB to PC utility to change the connection method the handheld uses to connect to the Windows Mobile Device Center on the computer. Tap / *Settings* / *Connections* / *USB to PC Utility*. Clear the *Enable advanced network functionality* check box. The handheld stops using the default RNDIS method to connect to the Windows Mobile Device Center. |

## ActiveSync technology

| Problem | Cause | Solution |
|---------|-------|----------|
| ActiveSync technology will not connect to the handheld. | The connection is not initiated automatically. | In the ActiveSync technology dialog on the office computer, select *File*/ *Connection Settings*and then tap **Connect**. |
| | The ActiveSync technology does not | Disconnect the handheld from the |

| Problem | Cause | Solution |
|---------|-------|----------|
| | recognize the Geo 7 series handheld. | office computer. Restart the office computer. Reset it (see Restarting and resetting the Geo 7 handheld, page 101) and then reconnect it to the office computer. |
| | An incompatible version of ActiveSync technology is installed. | ActiveSync version 4.5 (and later) is compatible with the Geo 7 series handheld. If version 4.5 or later of the ActiveSync software is not installed on the office computer, you can download the latest version from the Microsoft website. |
| | The connection is not enabled in ActiveSync on the computer. | In the ActiveSync technology dialog on the office computer, click *File* / *Connection Settings*. If you are using: <br><br>• a USB cable, make sure that the *Allow USB connection* check box is selected from the drop-down list. <br><br>• a Bluetooth connection, make sure that the correct port for Bluetooth is selected. Then open the Bluetooth control on the handheld. In the *Devices* tab, tap the partnership and in the services list make sure that the *ActiveSync* check box is selected. |
| | The connection is not enabled in ActiveSync on the handheld. | On the handheld, tap ⊞/ *ActiveSync* / *Menu* / *Connections*. Make sure that the *Synchronize all PCs using this connection* check box is selected, and that the correct option is selected. |
| | The handheld connection settings conflict with network settings or VPN client software. | If you are using a USB cable, use the USB to PC utility to change the connection method the handheld uses to connect to ActiveSync technology on the computer. Tap ⊞/ *Settings*/ *Connections*/ *USB to PC Utility*. Clear the *Enable advanced network functionality* check box. The handheld stops using the default RNDIS method to connect to the ActiveSync technology. |

## Bluetooth wireless technology

| Problem | Cause | Solution |
|---|---|---|
| The handheld cannot discover a nearby Bluetooth device. | The integrated Bluetooth radio is not activated. | The handheld's Bluetooth radio has been deactivated. If Bluetooth wireless technology is allowed where you are working, use the Radio Activation Manager software to re-activate the radio (see Deactivating the cellular, Wi-Fi, or Bluetooth radios, page 51). |
| | The device is out of range. | Move the devices closer to each other and then scan again. |
| | Bluetooth wireless technology is not enabled on one or both devices. | Make sure that the Bluetooth radio is turned on, on both the handheld (see Turning on and turning off the Bluetooth radio from within the Bluetooth application, page 53) and the other Bluetooth device. |
| | The device has not been made Discoverable. | Make sure that the Bluetooth device has been made Discoverable. See Making the handheld visible (discoverable) to other Bluetooth devices, page 58. |
| The COM port that you assigned to a serial port service is not available in your application. | The application cannot recognize ports if they are added after the application opens. | Exit from the application, add the port and then run the application again. See Connecting to a Bluetooth-enabled serial device, page 64. |
| The Bluetooth connection fails while in use. | The Bluetooth device has moved out of range. | Move the devices closer to each other. The devices should reconnect automatically. If they do not, select the Bluetooth device in the *Devices* tab. Tap and hold the device name and then select *Delete*. Tap *New* to discover the device again. |
| | The Bluetooth radio has lost the connection. | Turn off the Bluetooth radio on the handheld and then turn on the Bluetooth radio (see Turning on and turning off the Bluetooth radio from within the Bluetooth application, page 53) . |
| | Bluetooth file transfer interrupts the connection. | When you transfer large image or data files, other Bluetooth connections may |

| Problem | Cause | Solution |
|---------|-------|----------|
| | | stop responding. To avoid problems, close other Bluetooth connections before transferring large files. |
| An error message reports "Problem with Bluetooth Hardware". | The integrated Bluetooth radio may have been deactivated. | Use the Radio Activation Manager to reactivate the Bluetooth radio. See Deactivating the cellular, Wi-Fi, or Bluetooth radios, page 51 |

## Wi-Fi connections

| Problem | Cause | Solution |
|---------|-------|----------|
| The "New Network Detected" notification does not appear automatically. | The Wi-Fi radio is off. | Go to the Wireless Manager and make sure Wi-Fi is on. See Using the Wireless Manager, page 52 |
| | The handheld is out of range of the network. | Move to within range of the network, and then set up the connection. See Connecting to a Wi-Fi access point, page 54. |
| The handheld cannot connect to a secure site.  You cannot configure an Internet connection. | The date on the handheld is incorrect | Check that the handheld has the date set correctly on the *Home* screen. If the date is incorrect, tap the clock icon on the *Home* screen and then adjust the date and time. |
| Within range of more than one network, you are not connecting to the network you would prefer to use. | The radio is connecting to the first network signal it has received | Tap  / *Settings* / *Connections* / *Wireless Manager*. Tap **Menu** and then select *Wi-Fi Settings*. Any networks that you have already configured are displayed in the list of preferred networks. Tap and hold the network you would prefer to use and then select *Connect*. |
| The "New Network Detected" notification appears but the menu bar and soft key options are not displayed. | Some applications are not fully compatible with all features of the Windows Embedded Handheld 6.5 Professional operating system. | Use the application buttons on the keypad, as they map to the soft keys in the menu bar:  • To dismiss the notification, press the right application button on the keypad.  • To connect to the network, press the left application |

| Problem | Cause | Solution |
|---------|-------|----------|
| | | button. |
| | | Alternatively, select a Windows Embedded Handheld application from the Start menu, such as the *Home* screen or File Explorer, and the menu bar and soft keys will be displayed correctly. |
| Wi-Fi is unavailable in the Wireless Manager. | The integrated Wi-Fi radio may have been deactivated. | Use the Radio Activation Manager to reactivate the Wi-Fi radio. See Deactivating the cellular, Wi-Fi, or Bluetooth radios, page 51 |

## Internal cellular modem connections

| Problem | Cause | Solution |
|---------|-------|----------|
| Can't download data. | Your account has no remaining credit. | Contact your cellular provider to ensure that your account has sufficient credit. |
| Can't connect. | The phone is turned off. | Turn on the phone using the Wireless Manager. See Using the Wireless Manager, page 52. |
| | The connection is incorrectly configured. | Check your APN and connection settings with your provider. |
| | Cellular service is unavailable. | Check that the phone is within range of receiving strong enough signals to connect. Move to a location with stronger cellular reception. Check with your cellular provider that coverage is available in your region. |
| Service is intermittent. | Cellular service is weak. | Move to a location with a stronger signal. |
| Can't set up a connection. | SIM card is missing. | Insert SIM card. See Inserting and removing a SIM card, page 20 |
| | SIM card is locked. | Check the PIN security: tap  / *Settings* / *Personal* / *Phone*, and select the *Security* tab. |
| | 3G/GSM selection is incorrect for your cellular provider. | Check your settings: tap  / *Settings* / *Personal* / *Phone*, and select the *3G* tab. Set the 3G/GSM Selection to Auto. |

## GNSS receiver issues

| Problem | Cause | Solution |
|---|---|---|
| The handheld is not receiving GNSS positions. | The integrated GNSS receiver is not activated. | Use the Connect or Activate GNSS/GPS command in the field software to open the GNSS COM port and activate the integrated GNSS receiver. For more information, see Using the GNSS receiver, page 73. |
| | Incorrect configuration of serial COM port. | When supplying GNSS data to an external device using the COM1 USB to serial converter cable, set the baud rate to the high-speed TSIP setting: 38400, 8, 1, Odd. |
| | The GNSS COM port is already in use. Only one application at a time can have the port open. | Do the following:<br><br>• Exit the software that is using the GNSS COM port and then retry in your application.<br><br>• Check that a GNSS application is not running in the background. Tap / *Task Manager* and then select and close (click **End Task**) any GNSS applications you are not using.<br><br>• Make sure that connections are not left in use by the GNSS Connector software; close the application when you are not using the connections. |
| | The GNSS field software is using the wrong GNSS COM port. | Connect to COM2 if the GNSS field software uses NMEA messages, or COM3 for TSIP messages. For information on which protocol to use, check the documentation for the application. |
| | Not enough satellites are visible. | Move to a location where the receiver has a clear view of the sky and ensure the antenna is not obstructed. Alternatively, adjust the GNSS settings to increase productivity. For more information, refer to the Help provided with the GNSS field software. |

| Problem | Cause | Solution |
|---------|-------|----------|
| | | If you are using the TerraSync software, use Smart Settings. For more information, refer to the *TerraSync Software Getting Started Guide*. |
| | The DOP (Dilution of Precision) value for the current position is above the maximum DOP setting. | Wait until the DOP value falls below the maximum DOP specified. |
| | | Alternatively, adjust the GNSS settings to increase productivity. For more information, refer to the Help provided with the GNSS field software. |
| | | If you are using the TerraSync software, use Smart Settings. For more information, refer to the *TerraSync Software Getting Started Guide*. |
| | *Wait for real-time* is selected in the GNSS field software and the integrated receiver is waiting to receive real-time corrections. | If you are collecting data for postprocessing, clear the wait for real-time selection. |
| | | For more information, refer to the *TerraSync Software Getting Started Guide*. |
| | External antenna connected but not receiving data. | The handheld can take up to two seconds to detect that an external antenna has been connected or disconnected. |
| NMEA data includes autonomous positions. | The integrated GNSS receiver outputs autonomous positions when real-time corrections are unavailable. | Configure the NMEA application to filter out non-DGNSS positions. |
| The GNSS Connector utility reports "Unknown". | The GNSS Connector software may report "Unknown" on COM3. | This should not interfere with operation of the handheld. |
| Error Code 5 appears. | A receiver timeout error has occurred, caused by issues with communications to the receiver, or when the receiver has taken too long to reconnect. | Close the dialog and if the handheld does not automatically connect to the receiver, try to connect to the receiver again. If repeated attempts to connect to the receiver fail, contact your Trimble reseller. |
| The receiver will not connect, and the GNSS LED is solid red. | There is a GNSS receiver connection error. | Reset the receiver (see Restarting and resetting the Geo 7 handheld, page 101), then attempt to connect again. If repeated attempts to connect to the |

| Problem | Cause | Solution |
|---|---|---|
| | | receiver fail, contact your Trimble reseller. |

## Real-time DGNSS issues

| Problem | Cause | Solution |
|---|---|---|
| The handheld is not receiving SBAS real-time corrections. | The SBAS satellite is obstructed from view. | Check the location of the SBAS satellite in the Skyplot section of the GNSS field software, and if possible move to a different location. |
| | You are outside the WAAS, EGNOS, MSAS, GAGAN, BeiDou-GEO, or QZSS-SAIF coverage area. | Wide Area Augmentation System (WAAS) satellites are tracked in the Continental United States including Alaska, and in southern parts of Canada. |
| | | European Geostationary Navigation Overlay Service (EGNOS) satellites are tracked in Europe. |
| | | MTSAT Satellite-based Augmentation System (MSAS) satellites are tracked in Japan. |
| | | GAGAN |
| | | BeiDou-GEO |
| | | QZSS-SAIF |
| | | If you have selected satellites that are not available at your location, you cannot use SBAS corrections. |
| The handheld is not able to track a new or a specific SBAS satellite. | You are not using the latest SBAS configuration (.ini) file. | 1. To download the latest configuration file, go to www.trimble.com/Geo7.aspx, click *Technical Support / GeoExplorer Series Downloads / Geo 7 series*. Click SBAS.INI. |
| | | 2. To specify the satellites you want the receiver to track or to ignore, select the Custom option in the *Tracking Mode* field in the *Integrated SBAS Settings* form of the Trimble GNSS field software. |

| Problem | Cause | Solution |
|---------|-------|----------|
| The handheld is not receiving real-time corrections from the external real-time correction source. | There is no physical connection to the external source. | Connect the external real-time correction source to COM1 using the optional USB to serial converter, or to a Bluetooth port on the handheld. |
| | There is no Bluetooth wireless connection to the external source. | The Bluetooth external correction source is more than ten meters from the handheld, or is obstructed. Move the devices closer together, in a direct line of sight, to re-connect. |
| | The external source is incorrectly connected to the real-time COM port. | In the *Real-time Settings* section of the GNSS field software, select the COM port that the real-time source is connected to. |
| | The port settings are incorrect. | Change the port settings to match those used by the external source. |
| | No GNSS positions are available. | You cannot use real-time corrections until the GNSS receiver is computing positions. In the GNSS field software, make sure that the integrated GNSS receiver is activated, enough satellites are available, and that the satellite geometry (PDOP) is good enough to compute positions. |
| | Integrated SBAS is selected as the second choice source of real-time corrections. | If the SBAS status is Waiting, the integrated GNSS receiver may incorrectly change the status of the preferred real-time choice to Waiting as well. To avoid this, select Wait for real-time or Use uncorrected GNSS as your second choice. |

# Recommended GNSS settings for maximum precision and productivity

The following table lists some of the factors that affect the precision of your data, and describes how to minimize the effect of atmospheric interference and poor satellite geometry.

| Factor | Description | To maximize precision and productivity |
|--------|-------------|----------------------------------------|
| Satellite shadow | Satellite shadow is when the line of | Tracking more satellites can help to |

| Factor | Description | To maximize precision and productivity |
|---|---|---|
| | sight between the GNSS receiver and satellites is partially or fully blocked by obstructions such as buildings, trees, or land masses. The effect of satellite shadow is a reduction in the number of satellites that the receiver is able to track.<br><br>In general, the quality of your data increases with the number of satellites being used to calculate the position. | improve satellite geometry and thereby improve accuracy.<br><br>Use the Floodlight satellite shadow reduction technology option. See GNSS receiver options, page 74.<br><br>Ensure the integrated GNSS receiver gets a clear view of the sky as possible. Keep your body mass as far from the receiver as practical and do not crowd over the handheld.<br><br>Use an external antenna if needed to elevate the position of the antenna. |
| Multipath | Multipath is when GNSS satellite signals are reflected off nearby objects, such as buildings or cars, causing an erroneous signal to be received by the GNSS antenna. This can cause errors of several meters. | To reduce multipath, where possible collect data in an open environment away from large reflective surfaces and with a clear view of the sky.<br><br>Use the Floodlight technology option to increase the total number of satellites visible to the receiver, and reduce the risk of multipath affecting your solution. See GNSS receiver options, page 74. |
| Weak satellite signals | Signal-to-Noise Ratio (SNR) is a measure of the strength of the satellite signal relative to the background noise. GNSS quality degrades as the signal strength decreases. Weak signals may be caused by signals coming through vegetation, multipath signals, or low satellite elevation. | Use smart settings with Trimble field software to allow the receiver to determine maximum precision positions regardless of available satellite signal strength. For more information, refer to the section *Using Smart Settings* in the *TerraSync Software Getting Started Guide*.<br><br>Use the Floodlight technology option to increase the total number of satellites visible to the receiver, and reduce the risk of weak satellite signal affecting your solution. See GNSS receiver options, page 74. |
| Poor satellite geometry | Dilution of Precision (DOP) is a measure of the quality of GNSS positions, based on the spread (geometry) of the satellites in the sky that are used to | Use smart settings with Trimble field software to allow the receiver to determine maximum precision positions regardless of available |

| Factor | Description | To maximize precision and productivity |
|---|---|---|
| | compute the positions. When satellites are widely spaced relative to each other, the DOP value is lower, and in general position accuracy is greater. If the view of the sky is partially affected by satellite shadow, or if all of the satellites are in one area of the sky, the geometry and DOP may be poor. | satellite geometry. For more information, refer to the section *Using Smart Settings* in the *TerraSync Software Getting Started Guide*.<br><br>Use the Floodlight technology option to increase the total number of satellites that the receiver can track, and reduce the risk of poor satellite geometry affecting your solution. See GNSS receiver options, page 74. |
| Satellite elevation | When a satellite is low on the horizon, satellite signals must travel farther through the atmosphere. This results in a lower signal strength and delayed reception by the GNSS receiver, which can cause errors in calculating the position. | Use smart settings with Trimble field software to allow the receiver to determine maximum precision positions regardless of available satellite elevation. For more information, refer to the section *Using Smart Settings* in the *TerraSync Software Getting Started Guide*.<br><br>Use the Floodlight technolgy option to increase the total number of satellites that the receiver can track, and the likelihood of being able to track more satellites at higher elevation. See GNSS receiver options, page 74. |
| Occupation time at a point | Occupation time is the time spent at a point logging GNSS positions. | For point features, remain at the feature and log a number of GNSS positions to obtain an averaged position.<br><br>When collecting line and area features, collect them using averaged vertices. |

# Draft

# Legal notices

**In this chapter:**

- Recycling information
- Regional compliance information
- Warranty
- End User License Agreement for Product Software
- Corporate Office
- Copyright and Trademarks
- Release Notice

# Draft

## Recycling information

You should dispose of Geo 7 series handheld and accessories properly according to local laws and regulations. Because Geo 7 series contains electronic components, it must be disposed of separately from household waste. When the Geo 7 series handheld reaches its end of life, contact your local Trimble reseller to learn about disposal and recycling options for your area.

### Recycling in Europe

The symbol to the right means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For information about recycling Trimble WEEE (Waste Electrical and Electronic Equipment) products that run on electrical power go to http://www.trimble.com/corporate/about_WEEE_ROHS_initiatives.aspx.

To recycle Trimble WEEE products call +31 497 53 24 30, and ask for the "WEEE Associate". or mail a request for recycling instructions to:
Trimble Europe B.V. WEEE Recycling
C/O Menlo logistics
Gate 19 to 26
Meerheide 43
5521 DZ
Eersel
The Netherlands

### Taiwan Battery Recycling Requirements

The product includes a Lithium-ion battery. Taiwanese regulations require that waste batteries are recycled. 廢電池請回收

## Regional compliance information

To view compliance on the Geo 7 handheld, go to ⊞ / *Settings* / *System* / *System Information* / *Compliance*.

### Australia and New Zealand

This product conforms with the regulatory requirements of the Australian Communications Authority (ACA) EMC and Radiocommunications framework, thus satisfying the requirements for C-Tick Marking and sale within Australia and New Zealand.

### Europe

A copy of the EU declaration of conformity is available at: www.trimble.com/geo7/support/EU_DoC.pdf.

This Trimble Geo 7 series has been tested and found to comply with all requirements for CE Marking and sale within the European Economic Area (EEA).

The Geo 7 series has Bluetooth and wireless LAN approval and satisfies the requirements for Radio and Telecommunication Terminal Equipment specified by European Council Directive 1999/5/EC. These requirements provide reasonable protection against harmful interference when the equipment is

operated appropriately in a residential or commercial environment.
The Geo 7 series is intended for connection to European Networks operating on GSM 900, or GSM 1800 MHz.

**Russia**

**Taiwan**

**Canada**

IC ID: 1756A-88161

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.

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.

**Antenna Statement**

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

**Licence exempt**

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
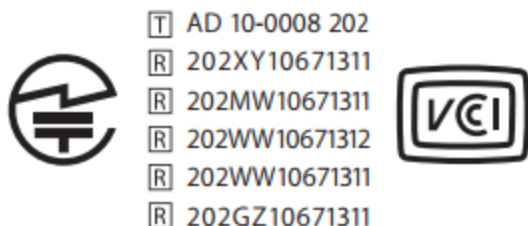
(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le onctionnement.

**U.S.**

FCC ID: jup88161

**Japan (graphic below will have only maybe two lines rather than 6**

T AD 10-0008 202
R 202XY10671311
R 202MW10671311
R 202WW10671312
R 202WW10671311
R 202GZ10671311

VCI

**South Africa (certification ID text in below graphic TBD)**

ICASA
TA-2010/956
TA-2010/957
Approved

**FCC Compliance Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. 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.

– Increase the separation between the equipment and the receiver.

– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

– Consult the dealer or an experienced radio/TV technician for help.

Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission rules.

The radios in this device have been designed and manufactured to not exceed stipulated emission limits for exposure to radio frequency (RF) energy as required by the Federal Communications Commission of the U.S. Government 47 C.F.R. § 2.1091 and 2.1093.

The external antenna connector provided in this device is for GNSS antennas only.

**Japan Compliance Statement (TEXT TBC)**

This device has been granted two designation numbers by Ministry of Internal Affairs and Communications: according:
Ordinance concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment Article 2 clause 1 item 19
( 特定無線設備の技術基準適合証明等に関する規則 )
Approval nos: 202WWSM11568841 and 202WWSM115688411
This device should not be modified (otherwise the granted designation numbers will be invalid).

**Korean Compliance Commission (KCC) Statement TEXT TBC**

This product conforms with the regulatory requirements of the Korean Communications Commission (KCC), thus satisfying the requirements for KCC Marking and sale within Korea.

방송통신위원
이 제품은 한국 방송통신위원회 (KCC) 의 규제요건에 부합하므로
KCC 마크 표시 및 한국내 판매 요건을 충족합니다
1. 인증받은자의 상호 : Trimble Navigation Ltd.
2. 모델명 : 88161 / Geo 7X
3. 제조사 : Flextronics
4. 송신주파수 :B/T 2402~2480 MHz, WLAN : 2412~2472 MHz
5. 수신주파수 :B/T 2402~2480 MHz, WLAN : 2412~2472 MHz
6. 출력 : B/T 0.02 mW, WLAN 10mW
7. 사용자 안내문구
8. 당해무선설비기기는 운용중 전파혼신 가능성이 있으므로 인명 안 전과 관련된 서비스는 할수 없음 .

# Warranty

### Product Limited Warranty

Subject to the terms and conditions set forth herein, Trimble Navigation Limited ("Trimble") warrants that for a period of (1) year from date of purchase this Trimble product (the "Product") will substantially conform to Trimble's publicly available specifications for the Product and that the hardware and any storage media components of the Product will be substantially free from defects in materials and workmanship.

### Product Software

Product software, whether built into hardware circuitry as firmware, provided as a standalone computer software product, embedded in flash memory, or stored on magnetic or other media, is licensed solely for use with or as an integral part of the Product and is not sold. The terms of the end user license agreement, as included below, govern the use of the Product Software, including any differing limited warranty terms, exclusions and limitations, which shall control over the terms and conditions set forth in the limited Product warranty.

### Warranty Remedies

If the Trimble Product fails during the warranty period for reasons covered by this limited warranty and you notify Trimble of such failure during the warranty period, Trimble will repair OR replace the nonconforming Product with new, equivalent to new, or reconditioned parts or Product, OR refund the Product purchase price paid by you, at Trimble's option, upon your return of the Product in accordance with Trimble's product return procedures then in effect.

### How to Obtain Warranty Service

To obtain warranty service for the Product, it is recommended you contact your Trimble dealer. Alternatively, you may contact Trimble to request warranty service by emailing Repair_Services@Trimble.com. Please be prepared to provide:
– your name, address, and telephone numbers;
– product name, Part Number and Serial Number
– proof of purchase; and
– an explanation of the problem.
The customer service representative may need additional information from you depending on the nature of the problem.

### Warranty Exclusions and Disclaimer

This Product limited warranty shall only apply in the event and to the extent that (i) the Product is properly and correctly installed, configured, interfaced, maintained, stored, and operated in accordance with Trimble's applicable operator's manual and specifications, and; (ii) the Product is not modified or misused. This Product limited warranty shall not apply to, and Trimble shall not be responsible for, defects or performance problems resulting from (i) the combination or utilization of the Product with hardware or software products, information, data, systems, interfaces, or devices not made, supplied, or specified by Trimble; (ii) the operation of the Product under any specification other than, or in addition to, Trimble's standard specifications for its products; (iii) the unauthorized installation, modification, or use of the Product; (iv) damage caused by: accident, lightning or other electrical discharge, fresh or salt water immersion or spray (outside of Product specifications); or exposure to environmental conditions for which the Product is not intended; (v) normal wear and tear on consumable parts (e.g., batteries); or (vi) cosmetic damage. Trimble does not warrant or guarantee the results obtained through the use of the Product or Software, or that software components will operate error free.
NOTICE REGARDING PRODUCTS EQUIPPED WITH TECHNOLOGY CAPABLE OF TRACKING SATELLITE SIGNALS FROM SATELLITE BASED AUGMENTATION SYSTEMS (SBAS) (WAAS, EGNOS, GAGAN, MSAS AND LUCH), OMNISTAR, BEIDOU, GPS, GALILEO OR GLONASS SATELLITES, OR FROM IALA BEACON SOURCES: TRIMBLE IS NOT RESPONSIBLE FOR THE OPERATION OR FAILURE OF OPERATION OF ANY SATELLITE BASED POSITIONING SYSTEM OR THE AVAILABILITY OF ANY SATELLITE BASED POSITIONING SIGNALS.
THE FOREGOING LIMITED WARRANTY TERMS STATE TRIMBLE'S ENTIRE LIABILITY, AND YOUR EXCLUSIVE REMEDIES, RELATING TO THE TRIMBLE PRODUCT. EXCEPT AS OTHERWISE EXPRESSLY PROVIDED HEREIN, THE PRODUCT, AND ACCOMPANYING DOCUMENTATION AND MATERIALS ARE PROVIDED "AS-IS" AND WITHOUT EXPRESS OR IMPLIED WARRANTY OF ANY KIND, BY EITHER TRIMBLE OR ANYONE WHO HAS BEEN INVOLVED IN ITS CREATION, PRODUCTION, INSTALLATION, OR DISTRIBUTION, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TITLE, AND NONINFRINGEMENT. THE STATED EXPRESS WARRANTIES ARE IN LIEU

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### Limitation of Liability

TRIMBLE'S ENTIRE LIABILITY UNDER ANY PROVISION HEREIN SHALL BE LIMITED TO THE AMOUNT PAID BY YOU FOR THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL TRIMBLE OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGE WHATSOEVER UNDER ANY CIRCUMSTANCE OR LEGAL THEORY RELATING IN ANYWAY TO THE PRODUCTS, SOFTWARE AND ACCOMPANYING DOCUMENTATION AND MATERIALS, (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF DATA, OR ANY OTHER PECUNIARY LOSS), REGARDLESS OF WHETHER TRIMBLE HAS BEEN ADVISED OF THE POSSIBILITY OF ANY SUCH LOSS AND REGARDLESS OF THE COURSE OF DEALING WHICH DEVELOPS OR HAS DEVELOPED BETWEEN YOU AND TRIMBLE. BECAUSE SOME STATES AND JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.
NOTE: THE ABOVE TRIMBLE LIMITED WARRANTY PROVISIONS WILL NOT APPLY TO PRODUCTS PURCHASED IN THOSE JURISDICTIONS (E.G., MEMBER STATES OF THE EUROPEAN ECONOMIC AREA) IN WHICH PRODUCT WARRANTIES ARE THE RESPONSIBILITY OF THE LOCAL DEALER FROM WHOM THE PRODUCTS ARE ACQUIRED. IN SUCH A CASE, PLEASE CONTACT YOUR TRIMBLE DEALER FOR APPLICABLE WARRANTY INFORMATION.

### Notice to Australian Purchasers On The Australian Consumer Law

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
Trimble's warranty, as set out in the user manual accompanying this statement, or as described in the warranty card accompanying the Product you purchased, is in addition to any mandatory rights and remedies that you may have under the Australian Consumer Law.

### Official Language

THE OFFICIAL LANGUAGE OF THESE TERMS AND CONDITIONS IS ENGLISH. IN THE EVENT OF A CONFLICT BETWEEN ENGLISH AND OTHER LANGUAGE VERSIONS, THE ENGLISH LANGUAGE SHALL CONTROL.

# End User License Agreement for Product Software

IMPORTANT, READ CAREFULLY. THIS END USER LICENSE AGREEMENT ("EULA") IS A LEGAL AGREEMENT BETWEEN YOU AND Trimble Navigation Limited ("Trimble") and applies to the computer software provided with the Trimble product purchased by you (whether built into hardware circuitry as firmware, embedded in flash memory or a PCMCIA card, or stored on magnetic or other media), or provided as a stand-alone computer software product, and includes any accompanying written materials such as a user's guide or product manual, as well as any "online" or electronic documentation ("Software" or "Product Software"). This EULA will also apply to any Software error corrections, updates and upgrades subsequently furnished by Trimble, unless such are accompanied by different license terms and conditions, which will govern their use. You have acquired a Trimble Product ("Device") that includes Software, some of which was licensed by Trimble from Microsoft Corporation or its affiliates (collectively "Microsoft"). The Software licensed from Microsoft, as well as associated updates, supplements, internet-based services and support services, media, printed materials, and "online" or electronic documentation ("Microsoft Software"), are protected under this EULA. The Software is also protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The Software is licensed, not sold.
BY USING THE SOFTWARE, INCLUDING USE ON THIS DEVICE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE DEVICE OR SOFTWARE. INSTEAD CONTACT TRIMBLE FOR A REFUND OR CREDIT. As described below, using some features also operates as your consent to the transmission of certain standard computer information for Internet-based services.
WARNING: If the Software contains voice operated technologies, then operating this Software requires user attention. Diverting attention away from the road while driving can possibly cause an accident or other serious consequence. Even occasional, short diversions of attention can be dangerous if your attention is diverted away from your driving task at a critical time. Trimble and Microsoft make no representations, warranties or other determinations that ANY use of this Software is legal, safe, or in any manner recommended or intended while driving or otherwise operating a motor vehicle.
This EULA does not grant you any rights with respect to the Windows Mobile Device Center, Microsoft ActiveSync or Microsoft Outlook 2007 Trial which are subject to the licenses accompanying those items.

### 1 SOFTWARE PRODUCT LICENSE

1.1 License Grant. Subject to the terms and conditions of this EULA, Trimble grants you a non-exclusive right to use one copy of the Software in a machine-readable form only as installed on the Device. Such use is limited to use with the Device for which it was intended, as set forth in the product documentation. The Device Software is licensed with the Device as a single integrated product. The Device Software installed in read only memory ("ROM") of the Device may only be used as part of the Device into which it was embedded. You may use the installation Software from a computer solely to download the Software to one Device. In no event shall the installation Software be used to download the Software onto more than one Device. A license for the Software may not be shared or used concurrently on different computers or Devices.
1.2 Scope of License. This EULA only gives you some rights to use the Software. Trimble and Microsoft reserve all other rights. Unless applicable law gives you more rights despite this limitation, you may use the Software only as expressly permitted in this EULA. In doing so, you must comply with any technical limitations in the Software that allow you to use it only in certain ways. Except as expressly provided in this EULA, rights to access the Software on this Device do not give you any right to implement Microsoft patents or other Microsoft intellectual property in software or devices that access this device. You may use remote access technologies in the software such as Remote Desktop Mobile to access the Software remotely from a computer or server. You are responsible for obtaining any licenses required for use of the protocols to access other software.
1.3 Proof of License. If you acquired the Software on the Device, or on a disc or other media, a genuine Certificate of Authenticity label with a genuine copy of the Software identifies licensed software. To be valid, this label must be affixed to the Device, or included on or in the software packaging. If you receive the label separately, it is not valid. You should keep the label on the device or packaging to prove that you are licensed to use the Software. To identify genuine Microsoft Software, see http://www.howtotell.com.
1.4 Connectivity Software. Your Device package may include Windows Mobile Device Center or Microsoft ActiveSync software. If it is included, then you may install and use it in accordance with the license terms that are provided with it. If no license terms are provided, then you may install and use only one (1) copy of the Software on a single computer.
1.5 Digital Certificates. The Software uses digital certificates in X.509 format. These digital certificates are used for authentication.

1.6 Phone Functionality. If the Device Software includes phone functionality, all or certain portions of the Device Software may be inoperable if you do not have and maintain a service account with a wireless telecommunication carrier ("Mobile Operator"), or if the Mobile Operator's network is not operating or configured to operate with the Device.

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This is the October 2013 release (Revision A) of the Trimble Geo 7 series user guide.