

# Trimble Ranger 7 Basic Operating Procedures (02/10/2022)

**\*\*DO NOT CONNECT THE RANGER 7 TO YOUR LAPTOP FOR ANY REASON\*\***

This creates a Peer-to-peer connection which is not allowed by the Forest Service.

The Trimble is a device that operates with the Windows 10 platform. Many of the functions you use on your regular laptop are the same as on the Ranger 7. Think of it as your portable laptop in terms of the operating system. But keep in mind, it's not equivalent as far as being able to use Teams and your Forest Service email. The Ranger 7 does not have the standard FS Image installed so they **must not** be used with the secure FS networks or websites.

**\*These units should never be connected to a FS Network or FS Wireless Network.\***

**To turn the device on, simply press the power button (green button above letter keys). No need to hold down, just press it and the screen will turn on.**

## **Logging on with password:**

When you boot it up, you will see this screen. Simply swipe up **or** press the enter button to enter your login credentials. When you initially receive the units, **your password** will match the User Name at the bottom left of the screen (NRSFIAxx). You may have to click on the NRSFIAxx option if NRSADMIN is currently selected.



Once logged in, the default password should be changed. To do so, click and hold 'Ctrl+Alt+Del'. Click on 'Change a Password'. Be sure to recall what you change it to, because it may require that the unit be sent back to St. Paul to recover the password.

You are highly encouraged to customize the settings for when the display turns off and when it enters sleep mode for what suits your needs best. Tap the search icon (magnifying glass) in the lower left corner of the display and type "power". Open "Power & sleep settings" and adjust time to your preferences.

## **Power and Screen Settings:**

While in the *Power & sleep* settings, scroll down to "*Additional power settings*" and tap it. In the left pane, tap "*Choose what the power buttons do*". While it is recommend to leave the power button to turn off the display, you may want to change what happens when you press the sleep button. (The

sleep button is the FN button followed by the number 3 – there is a moon above the 3 to indicate this.) Choose either hibernate or sleep. Sleep mode stores the documents and files you are using into the memory, using a small amount of power while sleeping. Hibernate mode essentially does the same thing, but saves the information to your hard disk, then shuts the Ranger down completely and uses no energy. Sleep will continue to use a little battery, but wakes up quickly. Hibernate will use no battery, but takes slightly longer to boot back up. Both options return to exactly the same place you left off. Make sure to hit *Save changes* once you have customized it.

To power the unit completely off, click on the ‘Window’ at the bottom left of the screen. Click on the power button. Click ‘**Shut Down**’. Similar to your laptop, these units will need to be rebooted on occasion so it is good to power it down completely every once in a while.

### **Updates:**

Similar to your laptop, these units will prompt on occasion that a system update is required. It might be a system update or an update to Defender or Tanium. Some of the updates will automatically be performed when the unit is powered down and restarted. Other updates need to be activated when prompted.

In addition to no longer needing to connect the data recorder to your laptop, there is no need to activate **Update Mobile Device Components** in the Mobile Device Center. Go to the Midas website directly from the Trimble when connected to a network for updates: [FIA Mobile Integrated Data Acquisition System \(usda.gov\)](http://www.usda.gov/FIA-Mobile-Integrated-Data-Acquisition-System). Performing an **Install/Update MIDAS Software** function from the website will download all of the MIDAS updates. Opening the **MIDAS Control Panel** or clicking on **Unzip Downloaded Files** will save the updated files to the respective locations.

### **Touchscreen Functions:**

The Trimble Ranger 7 device can be used in touchscreen mode (TSM) using your finger, glove, or with a stylus. To choose which option you need at a given time, double click on the TouchControl Icon on your desktop. A window will pop up allowing you to choose the option that fits your current needs.

It may be beneficial to turn TSM off when you are traversing to and from plots and subplots. If it is left active, you risk the screen brushing against vegetation and such which could affect data you’ve collected thus far.

To enable / disable touchscreen: Press FN button then the ‘1’ key (No need to hold button down).

Note: there is a popup confirmation of disabling touchscreen, but no popup when enabling.

To enable / disable display: Once the Ranger has booted up, pressing the green power button will turn the screen off and on.

### **Data entry with MIDAS:**

Use MIDAS Utilities > MIDAS Tablet to enter data. We are no longer using MIDAS Mobile (if you choose this option, the screen will be too small to efficiently enter data). To open MIDAS Tablet, select the icon on the desktop, then select your Region, Crew Name and enter your password.

## Collecting PC coordinates using the Garmin GPSMAP64X:

1. Occupy PC, hold the GPS unit in hand and try to face south
2. Select **Waypoint Averaging** from **Page\Main Menu**
3. Select **Create Waypoint** at top of menu. The device will begin averaging values.
4. When **Sample Confidence** reaches 100% select **Save**
5. Take note of the **Distance Adjusted** displayed once **Save** is clicked
6. On the Ranger 7, open **Midas Mobile** and select **Ctrl G**. Keypunch:
  - **Location Latitude** and **Longitude**
  - **Distance Adjusted (GPS error)**
  - **GPS PDOP = 0**
  - **Number of Readings** (number of seconds it takes for the 'Sample Confidence' to get to 100%)
7. Select **Done** on the GPS
8. To record **Elevation**: Open the **Satellite Page** or navigate to the **Saved Waypoint**  
(Refer to Garmin User Guide for more information)

## Airplane mode:

Switch the Trimble to *Airplane* mode when using in the field to collect data (Airplane mode is a mobile setting that switches off your Ranger's connection to the Wi-Fi networks). This should improve the performance of the device and also extend battery life.

### To enable Airplane mode:

- **Alt + Function 0** or open the Network connection window (click the WiFi  or Ethernet (monitor with cable) icon on the taskbar. It's located on the right side of the taskbar in the notification area.)
- Click the "**Airplane mode**" tile. It has an airplane icon at the top of it
- Re-click the tile to disable

## Security Updates for the Ranger 7

- Make sure the device is connected to the internet.
- Left click Start\Settings\Update and Security or type Update and Security into search box.
- Left click Check for updates
- Download and install any security updates. You may need to restart your Ranger 7

## How to disable or enable the on-screen keyboard

- Left click *Start > Settings*
- Choose *Ease of Access*
- Select *Keyboard*
- Set *On-screen Keyboard* to *On* or *Off*

Hint: Disable the electronic keyboard if the Midas program entry fields shrink when the on-screen keyboard pops up.

