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Section 1 - Introducing CORe on Android (Collect, Organize, Report)

Thank you for downloading LaserSoft® CORe for Android from Laser Technology, Inc. (LTI)! Now you can quickly and easily record, save and share 3D measurements from the TruPoint 300 laser rangefinder to your phone or tablet. CORe can also store photographs. A virtual "pick-list" can be created with categories and subcategories for your measurement records with the option of including additional notes.

CORe project reports can be emailed over WiFi or downloaded to a computer via cable connection for further processing or adding into other databases.

Technical Specifications

CORe has been designed to run on Android operating platforms for use in conjunction with Laser Technology's TruPoint® 300 laser measurement device.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Systems</td>
<td>Android version 4.1 and later</td>
</tr>
<tr>
<td>Supported Devices</td>
<td>• CT7 Tablet (IP 67 rated) - Cedar Tree Technologies, Inc.</td>
</tr>
<tr>
<td></td>
<td>• Most other tablets running Android 4.1 or later</td>
</tr>
<tr>
<td>Connectivity</td>
<td>WLAN</td>
</tr>
<tr>
<td>Compatible Lasers</td>
<td>TruPoint 300</td>
</tr>
<tr>
<td>Hardware</td>
<td>Recommended X-Grip &amp; Mounting Claw for 7&quot; Tablets if using with a tripod</td>
</tr>
<tr>
<td>Supported Languages</td>
<td>English; template is available for translation</td>
</tr>
</tbody>
</table>

Warranty Information

A copy of the LTI Limited Warranty should have shipped with the order. If needed, please contact LTI to obtain a copy of the LTI Limited Warranty. See the inside front cover for LTI contact information.

Note: If you have purchased a CT7 ruggedized Android tablet from LTI, the tablet package includes the associated product literature, such as manuals and warranties. It is your responsibility to contact the manufacturing company to register the tablet.
**Instrument Configuration**

CORe is designed to work with or without the Laser Aiming Assist (LAA) hardware:

- TruPoint 300 with LAA mounted on a Tripod (Figure 1A)
- TruPoint 300 without LAA (Figure 1B).

**NOTE** The TruPoint 300 can also be used without LAA and mounted on a Tripod.

---

**Laser Setup Notes**

The TruPoint 300 is designed to measure in 2D and 3D. When it is powered on, it is ready to begin taking measurements. The laser WLAN function needs to be turned on (Function/Settings/Bluetooth-WLAN option). Set the desired measurement units in the laser to feet/in or meter/cm (Function/Settings/Units). When using a target pole, ensure that the surface is non-reflective. Refer to the TruPulse 300 manual for further instruction.

---

**Tablet Setup Notes**

In order to take advantage of all the new functionality in CORe, two things need to be done with the tablet:

1. Add a WiFi (Internet) connection - go to Settings/WLAN.
2. Add an email account - go to Settings/Add Account (to add a dedicated email account, assistance from department IT may be necessary).
Section 2 - Get Started with CORe

This section describes the download and installation procedure necessary to get started with CORe. It explains how to get the app from Google Play and then launch it. Once the application has been successfully launched, follow the instructions in this section to understand the main menu and configure the settings.

Get CORe from Google Play

To get the CORe app from Google Play:

1. Use the Google Play search function to find "LaserSoft CORe" and learn about app pricing.
2. Tap the CORe icon to install the app as you would any other Google Play application.

Pair the Laser with a Tablet

In order for data to be received from the laser to a tablet, the two must be paired via WLAN. Once the laser has been connected to a tablet, it will remain as a recognized device in the list of WLAN networks, but must be selected prior to measuring.

1. Turn on WLAN. The laser’s WLAN setting should be set to "ON" in the TruPoint 300.
2. Tap Settings on the tablet's main screen (Figure 2A).
3. Tap WLAN (Figure 2B).
4. Tap the laser-serial number (Figure 2C). When the laser displays as "Connected" (Figure 2D), it has been successfully added as a network option and is ready to begin measurements.

NOTE
Not all tablets will navigate to the WLAN settings in same way as the example shown (CT7/Android 4.1); however, they will be very similar. Warning: Due to the wide range of a WLAN connection, the TruPoint 300 can only be connected with one device at a time. If it is connected to more than one device (your phone and your tablet and those devices are within range of each other), the laser will not be able to make a connection to CORe.
Launch CORe

To launch the CORe app:
1. Find the CORe icon on the phone.
2. Tap the CORe icon (Figure 3B).

About the Main Menu

This is the CORe main menu (Figure 4):

- Tap the back arrow at the top of the screen to leave CORe.
- Tap the Android menu icon in the upper right corner of the screen to access:
  - Categories (category and subcategory management)
  - Settings
  - About CORe
- Tap [New Project] to begin a new data collection project
- Tap [Saved Projects] to select an existing project and:
  - Open/Add new measurements
  - Edit/Delete measurements
  - Send to Laser Technology for support
- Tap [Exit Program] to close CORe and return to the tablet main screen.
Manage Categories & Subcategories

Categories with accompanying subcategories may be created to help add clarity to field measurements stored using CORe. Categories and subcategories must be created prior to starting a new data collection project. Custom list options are available for selection from drop-down menus in the CORe data collection screen.

Add a Category

1. Tap the Menu icon in the upper-right corner of the screen (Figure 5A).
2. Tap Categories from the list of options (Figure 5B).
3. Tap in the Categories bar (Figure 5C).
4. Enter a new category name and tap [Save] (Figure 5D).
5. The new Category will appear in the list of categories in alphabetical order (Figure 5E).

Figure 5
Add Subcategories

1. Access the Category Management screen (Steps 1 & 2 from the "Add A Category" section on Page 6).
2. Tap the Category under which the subcategories will nest so that the Category name is highlighted in blue (Figure 6A).
3. Tap in the Subcategories bar (Figure 6A).
4. Enter the new Subcategory name and tap [Save] (Figure 6B).
5. The new Subcategory will appear in the list of categories in alphabetical order (Figure 6C).
Delete A Category

NOTE Deleting a Category also deletes all the Subcategories that are associated with it. Category and subcategory deletions cannot be undone; they can only be re-created.

1. Access the Category Management screen (Steps 1 & 2 from the “Add A Category” section on Page 6).

2. Tap the Category to select it (Category is highlighted in blue when selected), then tap in the Categories bar (Figure 7A).

3. Tap “OK” to confirm the deletion (Figure 7B).

![Figure 7](image-url)
Delete Subcategories

NOTE Individual Subcategories can be deleted one at a time. Also, deleting an entire Category will delete all associated Subcategories at once along with the Category. Category and Subcategory deletions cannot be undone; they can only be re-created.

1. Access the Category Management screen (Steps 1 & 2 from the "Add A Category" section, Page 6).
2. Tap the Category to access its associated Subcategories list, then tap the Subcategory to select it (Subcategory is highlighted in blue when selected). Tap in the Subcategories bar (Figure 8A).
3. Tap "OK" to confirm the deletion (Figure 8B).

![Figure 8](image.png)

Configure Program Settings

In Program Settings, set the default unit of measure for all projects and enter an email address to which all project reports can be sent. Entering an email address in this area enables the "To:" field for the email to be auto-filled so and email address does not have to be entered each time a report is sent.

To access Program Settings:

1. Tap the Android menu icon in the upper-right corner of the screen (Figure 9A).
2. Tap Settings from the list of options (Figure 9B).
3. Make changes, if necessary (Figure 9C). If any changes are made, tap Save to exit. Tapping the back arrow will exit the Program Settings area without saving.

![Figure 9](image.png)
Additional Information

Localization

English is the default language of most tablets. No matter what the default language is, it can be changed. To change the language:

1. Power on the Android device.
2. Tap the Settings icon on the device home screen.
3. Tap [Language & input] ' [Language].
4. From the list of languages displayed, select the language to use for text display on the device.
5. Press the home button on the device to return to the device home screen.

NOTE Text in other programs may still be displayed in English which is typically the Android device's default language.
Section 3 - Projects

When TruPoint measurements are collected with CORe, they are organized into Projects. New Projects can be created and existing Projects can be easily accessed and edited.

Create a New Project

From the CORe main screen, tap [New Project] to create a new data collection project. The New Project Settings screen will display (Figure 10).

How to fill out the New Project Settings screen:

1. Enter/Select the following:
   - Project name: Enter a name for the data collection project.
   - Units: Tap to change units from Feet to Meters, if necessary.

2. Tap [Next] to proceed to the data collection screen.

   NOTE Any blank fields will be highlighted with an exclamation point. Enter the missing information and tap [Next].

![Figure 10](image)

Project Name

Additional information regarding file name entry:

- Project names may include any combination of alphanumeric characters.
- Project names may contain a maximum of 1,500 alphanumeric characters.
- Four invalid characters include / \ & or space.
- An error message will be displayed if the project name includes an invalid character.
- Clear the message by clicking "OK" and enter a name using valid characters.
- Duplicate project names are not allowed. If an existing name is entered, a prompt will appear indicating that a duplicate project name was entered. In order to proceed, the name must be changed.

Units

Tap to select the desired units of measurement for distance and angle to match those set in the laser. Choose from:

- Feet/Meters
Save & Share Project Reports

CORe can generate reports for projects that are saved on the tablet. Project reports are transferable to a PC via cable connection or email. Saved project reports can be created in the following formats:

- **Text** - .txt file can be opened with a text editor or spreadsheet program.
- **Spreadsheet** - .csv file that can be opened with a spreadsheet program.
- **HTML** - .HTML report zipped with images must be unzipped, saved to a PC and then opened using any browser.

Save a Project Report

To save a CORe Project report:

1. With the project open, tap the Save icon in the upper right corner of the screen (Figure 11A).
2. Choose to keep the name used when the project was created or enter a new one. Tap the Report Format drop down list to select a format to save. Tap the Save icon (Figure 11B).
3. The report has been saved on the tablet and appears in the Saved Reports section in the bottom half of the screen (Figure 11C). Saved reports display in this section with the most recently saved report at the top.

![Figure 11](image-url)

NOTE Saved reports can be found on the Android device main drive: CORe/"filename.zip.

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Save & Share a Project Report
To save and send a CORe project report:

1. Ensure the tablet has access to WIFI and that an email account has been added.

2. With the project open, tap the Save icon in the upper right corner of the screen (Figure 12A).

3. Choose to keep the name used when the project was created or enter a new one. Tap the Report Format drop down list to select a format to save. Tap the Save & Send icon (Figure 12B).

4. The email options available on the Android device will display. In this example, Gmail will be used to send the report (Figure 12C).

5. The report file is automatically attached to the email (Figure 12D) and:
   - Sends from the default email address set up on the Android device.
   - Sends to the email address(es) assigned in CORe Settings (Page 9) - or a different/additional email address can be entered.
   - Includes the report file name as the email subject line.

6. Tap Send (Figure 12D).

**NOTE** If using a cable to transfer saved reports to a PC, the reports can be found in the CORe folder. Within the CORe folder, a folder is automatically created and named after the project. All reports and photos saved for a project can be found in that folder (Figure 13).
Manage Saved Project Reports

Reports saved on a tablet can be sent or deleted from within CORe. They can also be copied as a group using a cable connection to a PC. In order to manage saved reports for any survey, the survey must first be opened.

Send a Saved Report

1. Tap the Save icon in the upper right corner of the data collection screen (Figure 14A). All previously saved reports for any survey are accessed via the Save icon.
2. The Saved Reports section displays in the lower half of the Save screen. Tap the saved report you wish to send, and then tap the Send icon (Figure 14B).
3. The email options available on the Android device will display. In this example, Gmail will be used to send the report (Figure 14C).
4. The report file automatically is automatically attached to the email (Figure 14D) and:
   a. Sends from the default email address set up on the tablet.
   b. Sends to the email address(es) assigned in CORe Settings (Page 9) - or a different email address can be entered.
   c. Includes the report file name as the email subject line.
4. Tap Send (Figure 14D).

Figure 14
Delete a Saved Report

1. Tap the Save icon in the upper right corner of the data collection screen (Figure 15A).
2. The Saved Reports section displays in the lower half of the Save screen. Tap the saved report to be deleted, and then tap the Delete icon (Figure 15B).
3. Tap OK to confirm the deletion of the report (Figure 15C), or tap Cancel to abandon the operation.
Transfer Reports/Data to a PC

In addition to email, saved reports can also be transferred to a PC via USB cable. When CORe is installed on a tablet, it creates a folder called CORe for storing program settings, reports, and *.TPCOR format project files. The *.TPCOR survey files can only be opened within CORe and are located in a sub-folder called "Data." In addition to transferring survey reports to a PC, it is also a good idea to copy *.TPCOR files over as well once all edits and changes to the survey are complete. A *.TPCOR file can always be copied back over to the tablet if it becomes necessary to add more data points to a survey or make any other changes - and then reports can be re-created based on the updated file.

1. Connect the tablet to a PC with the USB cable that accompanies the device. Android devices typically connect as if they are a "Removable Disk" or external hard drive. If you are not using a tablet purchased through LTI, your device may connect differently. Please refer to the manual that shipped with your device to understand how it connects to a PC.

2. Swipe down from the top of the tablet screen to display the connection options for the tablet (Figure 16A).

3. Tap to select "Mount SD Card" from the USB computer connection options. If the tablet is set only to charge, it will not show up as a "Removable Disk" (Figure 16B).

![Figure 16](image-url)
4. Open File Explorer, select the Removable Disk option that coincides with your tablet. In this example, it is "Removable Disk (D:)". When the drive is selected, its contents display on the right side of the File Explorer screen.

5. Double-click the CORe folder (Figure 17A).

6. Double-click the folder that coincides with the project name and the saved reports will display (Figure 17B). Copy any of the individual reports, or copy the entire folder to transfer all the reports for the project by highlighting them and then right-click/copy with your mouse.

7. Create a folder on your PC for storing your CORe reports and *.TPCOR files. Double-click the folder, and then right-click/paste with your mouse.
Sample *.HTML Project Report:

![Sample HTML Project Report](image)

Figure 18
Delete All Saved Reports

For the purpose of managing your tablet's memory and resources, it can be helpful to delete reports and *.TPCOR files from the tablet after they have been safely transferred to a PC. When CORe is installed on a tablet, it creates a folder called CORe for storing program settings, reports, and *.TPCOR format survey files. The *.TPCOR survey files can only be opened within CORe and are located in a sub-folder named "Data."

**NOTE** Do not delete the Data folder unless all the *.TPCOR files have been placed safely on a PC. If the Data folder is deleted, it cannot be recovered and the deletion cannot be undone. As long as the **.TPCOR files are kept on the tablet or somewhere on a PC, they can be opened in CORe to re-create any reports, if necessary.

1. Connect the tablet to a PC with the USB cable that accompanies the device. Android devices typically connect as if they are a "Removable Disk" or external hard drive. If you are not using a tablet purchased through LTI, your device may connect differently. Please refer to the manual that shipped with your device to understand how it connects to a PC.
2. Open File Explorer, select the Removable Disk option that coincides with your tablet. In this example, it is "Removable Disk (D):". When the drive is selected, its contents display on the right side of the File Explorer screen.
3. Double-click the CORe folder (Figure 19A).
4. Double-click the folder that coincides with the survey name and the saved survey reports will display (Figure 19B). To delete all saved reports on the tablet, highlight all the survey folders and right-click/delete with your mouse.

![Figure 19](image)
Section 4 - Measurements

TruPoint measurements transfer into CORe automatically via WLAN and can be added in one of three ways:

- Tap Remote Fire on the CORe data collection screen - With this method, the TruPoint will measure to the feature and send the data in one step.
- Press the FIRE button on the TruPoint and then press [Send Data] - For users who prefer to measure from the laser as opposed to the Android device. This method requires two button presses to finish a measurement.
- Press the FIRE button on the TruPoint and then press [Send Data with Image] - Use this method to include the TruPoint image with the measurement; also requires two button presses to finish the measurement.

In this section, learn about the data collection screen, taking and saving measurements, and managing saved measurements in a project.

Data Collection Screen Overview

After a new project has been created, the CORe data collection screen will display:

Screen Overview Detail

Figure 20 displays the CORe data collection screen.
<table>
<thead>
<tr>
<th>Item / Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser Communication &amp; Battery Indicator</td>
<td>Indicates WAN laser connection and battery status. When the first measurement is taken, it will change to green or yellow. If yellow, the laser battery should be changed. If the connection is lost, tap this icon to re-establish it.</td>
</tr>
<tr>
<td>Save Reports</td>
<td>Create, save, and send reports in various formats.</td>
</tr>
<tr>
<td>Menu</td>
<td>Access Category management, CORe program settings, and about CORe.</td>
</tr>
<tr>
<td>Visual Measurement Guide</td>
<td>Illustrations that display in this area indicate the next shot for multi-measurement routines.</td>
</tr>
<tr>
<td>TruPoint Image Display</td>
<td>Measurements with images from the TruPoint display the images in this area until the measurements are saved. See Page 29 for instructions on taking a measurement that includes an image.</td>
</tr>
<tr>
<td>Scrolling Measurement Display Area</td>
<td>Displays all saved measurements including TruPoint images, if applicable. The display is updated as measurements are added, edited, or deleted. The most recent measurement displays at the top of the list.</td>
</tr>
<tr>
<td>Red Dot ON/OFF</td>
<td>Tap to activate/deactivate visible red dot for precise aiming.</td>
</tr>
<tr>
<td>Remote Fire</td>
<td>Tap to fire the laser without physically pressing the fire button on the device.</td>
</tr>
<tr>
<td>Custom Category Drop-Down Menus</td>
<td>Tap to access custom built Categories and Subcategories to help clarify measurements.</td>
</tr>
<tr>
<td>Note</td>
<td>Enter a custom note that is stored with each saved measurement.</td>
</tr>
<tr>
<td>Instruction Line</td>
<td>Instructions for measurement routines. For multi-measurement routines, this line indicates what to do next.</td>
</tr>
<tr>
<td>Selected Measurement Type</td>
<td>Drop-down menu that displays the current selected measurement type. Choose from one of four: Distance, Missing Line, Height, and Slope.</td>
</tr>
<tr>
<td>Project Name</td>
<td>Displays the Project Name entered when the project was created.</td>
</tr>
</tbody>
</table>
# Icon Description Table

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
<th>Find out More</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Laser Connection Indicator" /></td>
<td>Laser Connection Indicator - indicates that a laser is connected laser battery is good/sufficient. This icon will change from No Laser to Green or Yellow upon the first measurement taken.</td>
<td>21</td>
</tr>
<tr>
<td><img src="image" alt="Change laser batteries" /></td>
<td>- Change laser batteries as soon as possible.</td>
<td>21</td>
</tr>
<tr>
<td><img src="image" alt="No laser connected" /></td>
<td>- No laser is connected/communicating.</td>
<td>21</td>
</tr>
<tr>
<td><img src="image" alt="Fire" /></td>
<td>Fire - tap to fire the laser remotely.</td>
<td>21</td>
</tr>
<tr>
<td><img src="image" alt="Tap to activate visual red dot" /></td>
<td>Tap to activate visual red dot.</td>
<td>21</td>
</tr>
<tr>
<td><img src="image" alt="Tap to deactivate visual red dot" /></td>
<td>Tap to deactivate visual red dot.</td>
<td>21</td>
</tr>
<tr>
<td><img src="image" alt="Delete Measurement" /></td>
<td>Delete Measurement - tap to delete a data point.</td>
<td>32</td>
</tr>
<tr>
<td><img src="image" alt="Reshoot" /></td>
<td>Reshoot - tap to reshoot any measurement.</td>
<td>31</td>
</tr>
<tr>
<td><img src="image" alt="Cancel" /></td>
<td>Cancel - tap to cancel multi-measurement routines prior to the display of the measurement results.</td>
<td>24</td>
</tr>
<tr>
<td><img src="image" alt="Save Reports" /></td>
<td>Save Reports - Tap to save and/or email reports from the map data of the open survey file (*.DXF, *.CSV, etc.).</td>
<td>12</td>
</tr>
</tbody>
</table>
Connect to TruPoint

1. Tap (Laser Connection) from the main data collection screen (Figure 21A) to establish connection to the laser (takes 2-4 seconds). The icon will change to reflect that the laser is connected and will also indicate if the battery life on the TruPoint is sufficient (green) or requires a charge soon (yellow).
2. Level the TruPoint so the bubbles appear in the green area and the TruPoint beeps (Figure 21B).
3. Rotate the TruPoint reducing the green area until TruPoint beeps (Figure 21C).
4. Rotate the TruPoint a second time, reducing the green until the TruPoint beeps, and the main screen displays.

Add a Measurement

Measurements can be added to CORe with four different measurement types: Distance, Missing Line, Height, and Slope. Measurement types are selected prior to taking a measurement. Each measurement can include the image from the TruPoint and can be notated or clarified with Category and Subcategory assignments. See Pages 6 - 7 for instructions on adding Categories and Subcategories.

Each of the examples below is performed using the Remote Fire method for taking and transferring measurements into CORe. See Page 28 for detailed steps for adding a measurement by pressing FIRE on the TruPoint instead of using the Remote Fire button in the CORe app.
**Distance**

Capture the distance measurement from the equipment position to any feature:

1. From the data collection screen, tap the Measurement Type drop-down list and select Distance (Figure 22A). CORe defaults to this Measurement Type each time a new project is created.

2. Aim the laser at the feature and tap **Remote Fire** (Remote Fire) to fire and receive the measurement result (Figure 22B).

3. Optional: Enter a Note about the measurement or select a Category (and subcategory, if applicable) to further clarify the measurement (Figure 22C).

4. Reshoot or store the measurement:
   - To reshoot: Tap the **R** (Reshoot) icon and repeat Step 2.
   - To store: Tap [Save] and the measurement is added to the scrolling measurement display area at the bottom of the screen (Figure 22D).

![Figure 22](image-url)
Height

Capture the height measurement of any feature (3-shot routine):

1. From the data collection screen, tap the Measurement Type drop-down list and select Height (Figure 23A).
2. Aim the laser at the feature and tap 🧐 (Remote Fire) to fire (Figure 23B).
3. Aim the laser at the base of the feature and tap 🧐 to fire (Figure 23C).
4. Aim the laser at the top of the feature and tap 🧐 to fire and receive the height measurement result (Figure 23D).
5. Optional: Enter a Note about the measurement or select a Category (and subcategory, if applicable) to further clarify the measurement.
6. Reshoot or store the measurement (Figure 23E):
   - To reshoot: Tap 🧐 (Reshoot) icon and repeat Steps 2, 3 and 4.
   - To store: Tap [Save] and the measurement is added to the scrolling measurement display area at the bottom of the screen (Figure 23F).
   - To cancel: Tap 🧐 to cancel out of any multi-measurement routine prior to the display of the measurement results (Figure 23C and/or Figure 23D).

![Figure 23](image-url)
**Missing Line**

Capture the 3D measurement data between any two features (2-shot routine):

1. From the data collection screen, tap the Measurement Type drop-down list and select Missing Line.
2. Aim the laser at the first feature and tap \( \text{(Remote Fire)} \) to fire (Figure 24A).
3. Aim the laser at the second feature and tap \( \text{(Remote Fire)} \) to fire and receive the missing line measurement result (Figure 24B).
4. Optional: Enter a Note about the measurement or select a Category (and subcategory, if applicable) to further clarify the measurement (Figure 24C).
5. Reshoot, store or cancel the measurement:
   - To reshoot: Tap the \( \text{R} \) (Reshoot) icon and repeat Steps 2 and 3.
   - To store: Tap [Save] and the measurement is added to the scrolling measurement display area at the bottom of the screen (Figure 24D).
   - To cancel: Tap \( \text{X} \) to cancel out of any multi-measurement routine prior to the display of the measurement results (Figure 24B).

![Figure 24](image-url)
Slope

Capture the 3D measurement data for a slope (2-shot routine):

1. From the data collection screen, tap the Measurement Type drop-down list and select Slope.

2. Aim the laser to the top of the slope and tap $\text{Remote Fire}$ to fire (Figure 25A).

3. Aim the laser to the bottom of the slope and tap $\text{Remote Fire}$ to fire and receive the slope measurement result (Figure 25B).

4. Optional: Enter a Note about the measurement or select a Category (and subcategory, if applicable) to further clarify the measurement.

5. Reshoot or store the measurement:
   - To reshoot: Tap the $\text{Reshoot}$ icon and repeat Steps 2 and 3.
   - To store: Tap $\text{Save}$ and the measurement is added to the scrolling measurement display area at the bottom of the screen (Figure 25C).
   - To cancel: Tap $\text{Cancel}$ to cancel out of any multi-measurement routine prior to the display of the measurement results.

(A) (B) (C)

Figure 25
Add A Measurement - Press FIRE on the Laser

The steps required to add a measurement using by pressing the Fire button on the laser are slightly different that using CORE’s Remote Fire button.

1. From the data collection screen, tap the Measurement Type drop-down list and select the desired measurement type (Figure 26A). In this example, Distance is selected.

2. Aim the laser to the top of the slope and press FIRE on the laser. If the red dot is not already on, the FIRE button will need to be pressed a second time to take the measurement.

3. Tap on the laser to send the measurement to CORE.

4. Optional: Enter a Note about the measurement or select a Category (and subcategory, if applicable) to further clarify the measurement (Figure 26B).

5. Reshoot or store the measurement:
   - To reshoot: Tap the (Reshoot) icon and repeat Steps 2 and 3.
   - To store: Tap [Save] and the measurement is added to the scrolling measurement display area at the bottom of the screen (Figure 26C).
   - To cancel: Tap to cancel out of any multi-measurement routine prior to the display of the measurement results.

![Figure 26](image-url)
**Add A Measurement with TruPoint Image**

The image associated with each TruPoint measurement can be sent to the tablet with the measurement when the measurement is initiated from the TruPoint and not the Android device (i.e. the TruPoint image will not transfer to the tablet if the Remote Fire button is used). Depending on the number of measurements required for the selected measurement type, images for each measurement can be included and saved by using this method to take the measurement.

1. From the data collection screen, tap the Measurement Type drop-down list and select the desired measurement type (Figure 27). In the example screen shot below, Height was selected, and the last measurement of the height routine is displayed.

2. Press the Camera button on the TruPoint.

3. Aim the laser to the target and press FIRE on the laser. If the red dot is not already on, the FIRE button will need to be pressed a second time to take the measurement.

   **NOTE** To send a screenshot of the measurement: Press and hold the camera button for 1-2 seconds, release and see the camera image flash on the TruPoint screen. The screen shot includes the image with the crosshair and measurement result.

4. Tap on the laser to send the measurement and image to CORe.

5. Optional: Enter a Note about the measurement or select a Category (and subcategory, if applicable) to further clarify the measurement.

6. Reshoot or store the measurement:
   - To reshoot: Tap the (Reshoot) icon and repeat Steps 2 and 3.
   - To store: Tap [Save] and the measurement is added to the scrolling measurement display area at the bottom of the screen.
   - To cancel: Tap to cancel out of any multi-measurement routine prior to the display of the measurement results.

   ![Figure 27](image.png)
Measurement Display Area Overview

All CORe projects display saved measurements in the scrolling Measurement Display area (which appears in the lower half of the screen of any open project, Figure 28A). Saved measurements can be reviewed, edited or deleted throughout the data collection process from this area.

![Measurement Display Area Overview](image)

Each saved measurement in the Measurement Display area includes the following information:

- **Measurement Number** - CORe assigns a number to each saved measurement beginning with #1 and continuing to the end of the data collection process for the project.
- **Measurement Type** - The selected measurement type at the time it was taken and saved.
- **Measurement Result** - Depending on the selected measurement type, this field can display additional associated measurement values in addition to the end result of a measurement routine.
- **Category/Subcategory** - Any Category or Subcategory that was assigned; if none are assigned, "NA" displays by default.
- **Note** - If a note was assigned to a measurement, it displays under the measurement result; if not, that field is blank.
- **TruPoint Image(s)** - If a TruPoint image was included with any measurements taken, it displays at the bottom of the measurement (minimum of 1 and maximum of 3).

For instructions on editing or deleting measurements from the Measurement Display area, see Page 32.
Reshoot, Edit, or Delete A Measurement

It is possible to re-shoot or edit saved measurements in CORe. Before measurements have been saved, they can be re-taken. After measurements have been saved, they can be accessed for editing or deletion.

Reshoot a Measurement

If a measurement needs to be re-taken, tap (Reshoot) on the data collection screen (Figure 29A) and add a new measurement. In this example, the previously measured distance would be replaced with the new measurement taken. This process can be repeated until the result is acceptable by the user.

Edit A Saved Measurement

Saved measurements in any project are displayed at the bottom of the CORe screen with the most recent measurement at the top. This scrolling measurement display is where saved measurements are reviewed and/or edited. Editing will not allow for a different measurement to be taken, it will only allow for editing of the Note, Category, and Subcategory assigned to the measurement. To edit these features of any saved measurement, do the following:

1. Open a CORe project.

2. Scroll to the measurement that needs to be edited and tap (Edit) in the measurement display area (Figure 30A).

3. Add or edit the current Note, Category or Subcategory. In this example, a Note of "Maint Needed" was added. Tap [Save] (Figure 30B).

4. The measurement display will update with the saved changes to the measurement (Figure 30C).
**Delete A Measurement**

Saved measurements in any project are displayed at the bottom of the CORe screen with the most recent measurement at the top. This scrolling measurement display is where saved measurements can be deleted. Once a measurement is deleted, it cannot be recovered. To delete any saved measurement, do the following:

1. Open a CORe project.
2. Scroll to the measurement that needs to be deleted and tap (Delete) in the measurement display area (Figure 31A).
3. Tap [OK] to confirm the deletion (Figure 31B) or tap [Cancel] to abandon the operation.
4. The measurement display will update to no longer show the deleted measurement.

![Figure 31](image)
# Appendix A - Troubleshooting Tips

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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| No communication between laser and the tablet. | - Verify that the WLAN feature in the laser is turned on (Function/Settings/WLAN BT Communication).  
- Ensure that the laser is added to the tablet as a WLAN network. The laser can only be connected to one device at a time.  
- Tap the Laser Connection Indicator icon at the top of the data collection screen and wait 2-4 seconds for the icon to turn green.  
- Power the tablet OFF and back ON. Try the above steps again.  
- Delete the TruPoint 300 WLAN network from the tablet and re-add it. Re-open CORe and tap the laser connection indicator icon. If the icon does not turn green within 2-4 seconds, there could be a problem with the WLAN function in the laser or tablet. |
| CORe closed unexpectedly. | If there is a 11-minute or more delay between shots, the TruPoint 300 may go to sleep. The connection to the tablet is lost which causes CORe to close unexpectedly. Re-establish check WLAN connection in tablet Settings, re-open CORe, and continue storing measurements. |
| The tablet locked up or doesn’t seem to be working properly. | Power the tablet off and back on again. Press and hold the power button to see the options for resetting the device. No matter what, each measurement is saved as it is taken, and no data will be lost. |
| An error message was displayed while working in CORe. | Error messages are often self-explanatory. Clear the message and correct the error before proceeding. If the error continues, restart CORe. If the error persists, reset the tablet (see above). |
| A measurement was accidentally deleted. | Re-do the measurement. Measurement deletions cannot be undone. |
| Cannot see tablet as a "Removable Disk" when connecting to a PC with the USB cable. | When the tablet is connected with the USB cable, swipe down from the top of the tablet screen and check the USB connection options. Ensure that "Mount SD Card" is selected and ensure that USB debugging is enabled. USB debugging options can be found in Settings/Developer Options on most Android devices. |
| Cannot save reports when trying to transfer them to a PC using a cable. | The tablet cannot be connected to the computer when reports are being saved. Unplug the cable, save the reports, and then plug the cable back in to access saved reports. |
| TruPoint 300 Error Codes. | Error 256 – Return is too intense. If shooting to a target that is too reflective, the laser will return this error and will not take a measurement.  
Error 301 – Cannot acquire target. Try to get the measurement again, taking care not to move or shake the device. |

CORe v1.x for Android does not support tablets running Android operating systems 4.0 or older.

To check the version of the operating system of the tablet, navigate to Settings and then About. These steps may vary slightly depending on the tablet.