Carlson Software Inc.
102 West 2nd Street
Maysville, KY 41056

www.carlsonsw.com
Phone: (606) 564-5028
Fax: (606) 564-6422

Carlson Surveyor2 Touchscreen Tips

Carlson's Surveyor2 data collector has a projected capacitive touchscreen that is designed for both finger and stylus use. While using capacitive touchscreen technology results in a thinner, brighter and more rugged scratch resistant display, users will find differences between capacitive touchscreen and the older resistive touchscreen technology used on the Surveyor+. The first difference users will notice is that the **Capacitive Stylus** supplied with the Surveyor2 is larger than the hard plastic stylus supplied with the Surveyor+ and it has a soft rubber tip. Only a capacitive touch stylus will work with the Surveyor2.

This document presents tips and suggestions to help you use the Surveyor2 more effectively.

Touchscreen Tips

1. Use the touchscreen profile (Finger, Stylus or Water) that best matches you and your work environment. Instructions for setting the touchscreen profile are found later in this document.
2. Tap perpendicular to the touchscreen. Touching the screen with your finger (or the stylus) perpendicular to the display surface is more accurate than having your finger or stylus at an angle to the display surface.
3. Use a light but firm touch. The capacitive touchscreen senses the presence of your finger or the stylus, not how hard you press on the screen. If you press hard, your finger or the stylus has a tendency to slide along the touchscreen surface, which can generate an incorrect touch position.
4. Use the touch crosshairs. There is a learning curve associated with most capacitive touchscreens. By checking the "Show touchscreen crosshairs" box in Touch setting menu, red crosshairs will be displayed when the Surveyor2 interprets the touch event. By viewing the crosshairs, you can determine if you need to adjust your touch location.
5. Aim for the center of the icon, tab or field. When using your index finger, many users have found that placing their fingernail on the top border of the icon, tab or data field is the most effective way to accurately select the icon, tab or data field.
6. Don't place your hand or other fingers on the touchscreen when using the stylus or your finger. This will cause an inadvertent touch.
7. If you are getting erroneous touches, wait 2-3 seconds for the touchscreen auto-calibration to complete. This typically happens when water is pooling on touchscreen. Shake or wipe off the water, touch an area of the display without an active button, wait 2-3 seconds and try again. One second after the last touch, the touchscreen controller does an auto-calibration.
8. Lift up your finger or stylus between touches; don't slide your finger or stylus along the display moving from between selections.
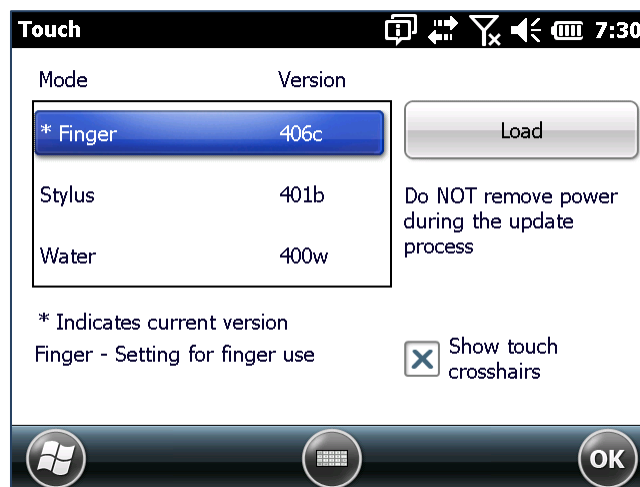
Setting the Touchscreen Profile

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The touchscreen is optimally designed for finger use. The default touchscreen mode can be adjusted to best match your application and environment, especially if you are using a capacitive stylus.
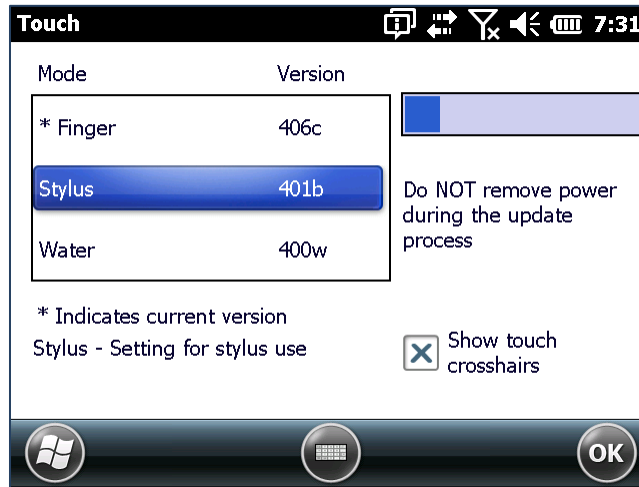
The Carlson Surveyor2 has three touch profile options:

- Stylus – The stylus profile has been optimized for the use with the stylus that ships with the Surveyor2. The stylus profile is the most sensitive profile. If you primarily use the stylus as your touch instrument, we recommend that you use the Stylus profile. Many users find the stylus profile also works well when using their finger for touching.
- Finger – The finger profile is a little less sensitive than the stylus profile and also includes "edge compensation".   The edge compensation function improves the touch performance for buttons that are close to the edge of the bezel. If you primarily use your finger on the touchscreen, we recommend you use the finger touch profile.
- Water – The water profile is the least sensitive touch profile and is only recommended when the touch interface needs to be used in heavy rain conditions. Water makes the touchscreen more sensitive. If you use the water profile on a dry touchscreen, it will require heavy deliberate touches with the stylus or finger to be register the touch.
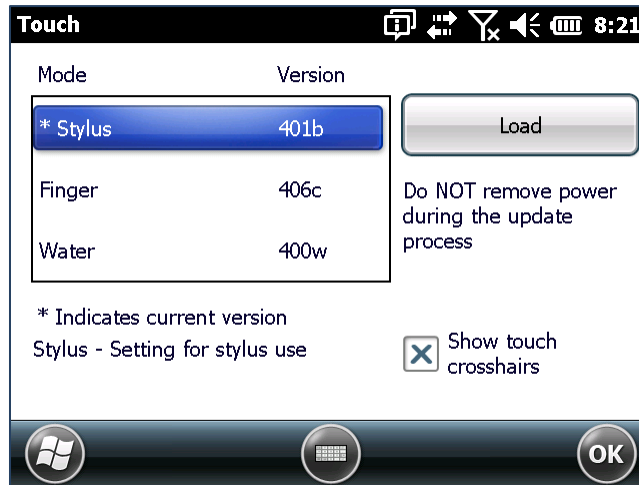
To adjust the touchscreen profile, go to the Touch control panel by pressing *Start > Settings > System > Touch*.

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Select the desired touch profile, then touch the Load button.   In the example below, the Stylus profile was selected (changing from Finger to Stylus) and the Load button was pressed.

It can take up to 30 seconds to load a new touch profile. The bar indicates the progress. Do not leave the Touch setting screen when the new touch profile has been loaded and the new touch profile is shown as the current profile (as shown below, the Stylus is now the current profile).

If the "Show touch crosshairs" box is checked, then red crosshairs will be displayed for 1-2 seconds after each touch. The cross hairs indicate the location sensed for the touch.

Tap OK to close the Touch setting screen and tap the X to return to the home screen.