



RT5/RTk5 Quick Start Guides

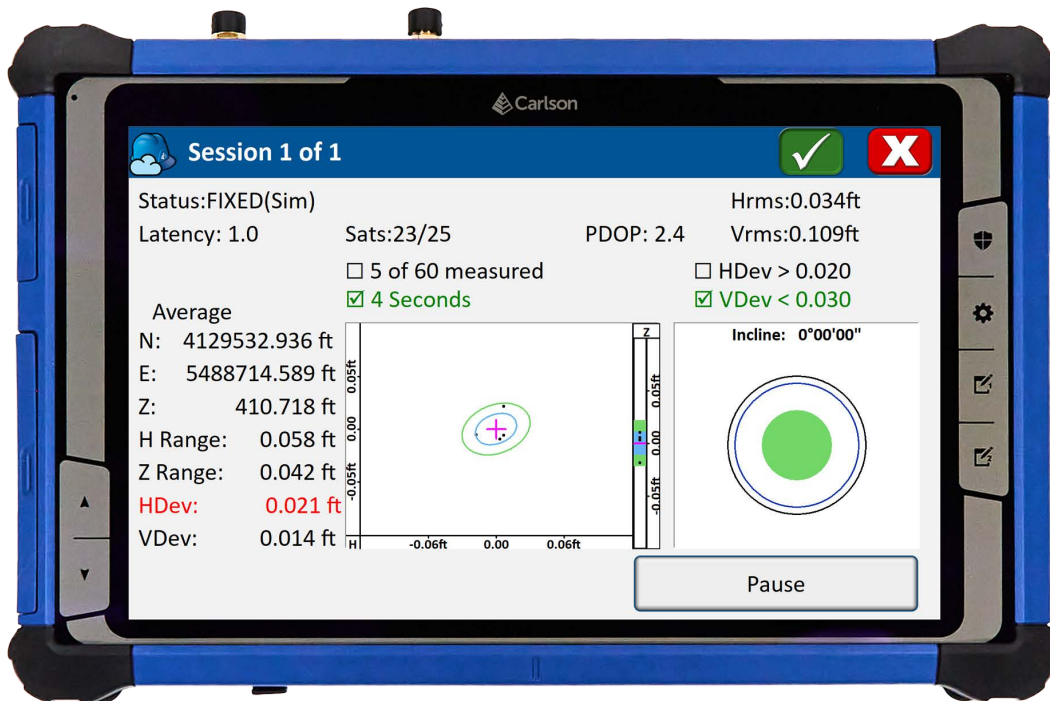
This document contains the following guides to help get you started:

1.....Basic Operation Guide

6.....Button Manager Operation Guide

11...Control Center Operation Guide

Carlson RT5/RTk5



BASIC OPERATION GUIDE

INTRODUCTION

The Carlson RT5/RTk5 Rugged Tablets feature the integration of a high brightness 8" capacitive touch screen and a high performance yet energy efficient processor within a slim, lightweight, durable package. With built-in Wi-Fi and a smart card reader as well as options for back camera, barcode scanner, GNSS, NFC, and UHF RFID reader, this robust tablet offers seamless information capture and transmission for improved workflow. Rated IP65 and MIL-STD-810G, the RT5/RTk5 Handheld Rugged Tablets provide reliable operation in harsh, mission-critical environments.

PACKAGE CONTENTS

- One RT5/RTk5
- One Battery Pack and Handstrap
- AC-DC Power Adapter
- Long-range Bluetooth antenna
- Basic Operation Guide

* The actual package contents may vary depending on the configuration acquired.

The RT5/RTk5



Input/ Output Ports

- A** USB Type-C Port (power input)
- B** Audio Jack
- C** USB Port
- D** Smart Card Reader

Button Functions

| BUTTON | ACTION |
|----------|----------------------------|
| 1 | Power Button |
| 2 | Windows Key Button |
| 3 | Programmable Buttons |
| 4 | Brightness Control Buttons |
| 5 | Programmable Button |
| 6 | Programmable Button |

PRECAUTIONS

- Always exercise care when operating and handling the RT5/RTk5
- Do not disassemble any portion of the RT5/RTk5 , as this will void any product warranty.
- Do not use any power adapter or charging cradle other than the one provided with the tablet or acquired from the manufacturer or its partners.
- In the unlikely event that abnormal noise, strange odor, or smoke is present, immediately power down the RT5/RTk5 and disconnect all power sources. Please report the problem to your device provider immediately.

OPERATION

Powering ON and OFF

To activate RT5/RTk5 , push and quickly release the Power Button. The display will come on in a few seconds. To put the RT5/RTk5 in standby mode, push and quickly release the Power Button. To turn the RT5/RTk5 off for extended storage, power off safely using any software function that "shuts down computer" provided in the software operating system.

NOTE:

The battery packs shipped with your tablet may be low in power - please use the AC-DC adapter with the RT5/RTk5 when setting up for the first time to fully charge the battery pack.

NOTE:

To conserve power, push and quick release the Power Button to make the tablet in standby mode while not in use. Pushing briefly on the same button will wake up the system.

NOTE:

When the battery pack is charging, the blue-colored Battery LED should blink slowly. If plugging in the AC-DC adapter does not trigger this blinking activity and the LED stays dark, the battery pack(s) may have been drained substantially. Unplug/ replug the AC-DC adapter to the RT5/RTk5 a few times to activate the charging process.

NOTE:

Avoid using the Power Button ("hold 4+ seconds" feature) to turn off the tablet-this form of hardware shutdown is intended to be a means of recovery from lockups, and not as normal operation.

Start Up

If the power up (from Standby mode or otherwise) is successful, the appropriate interface will be displayed after a launch sequence of several seconds. The wireless LAN connection may take 10-15 seconds to be established.

Wireless Networking

Wireless LAN

The RT5/RTk5 is often delivered with an embedded (user-inaccessible) 802.11ac LAN adapter equipped with a hidden custom antenna.

- Through the support of typical WLAN adapters, the RT5/RTk5 should be able to detect all 802.11 access points in the vicinity for you to select the access point of your choice for connection.
- The SSID and WEP/WPA/WPA2 (if enabled) parameters and the access points have to match. The SSID is case-sensitive and it is recommended that you enable WEP/WPA/WPA2 encryption (or advanced alternatives) for secure access.
- When WEP/WPA/WPA2 is enabled, you may need to consult your network administrator or your networking equipment literature to properly configure associated settings such as Authentication mode, etc.
- Refer to the access point operating manuals for setting up the 802.11 access points.

NOTE:

To ensure the system performance, turn on only the symbologies you are going to use.

Federal Communication Commission Interference

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. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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 communications. 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with 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 device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

This Class B digital apparatus complies with Canadian ICES-003.


Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Button Manager Operation Guide

Introduction

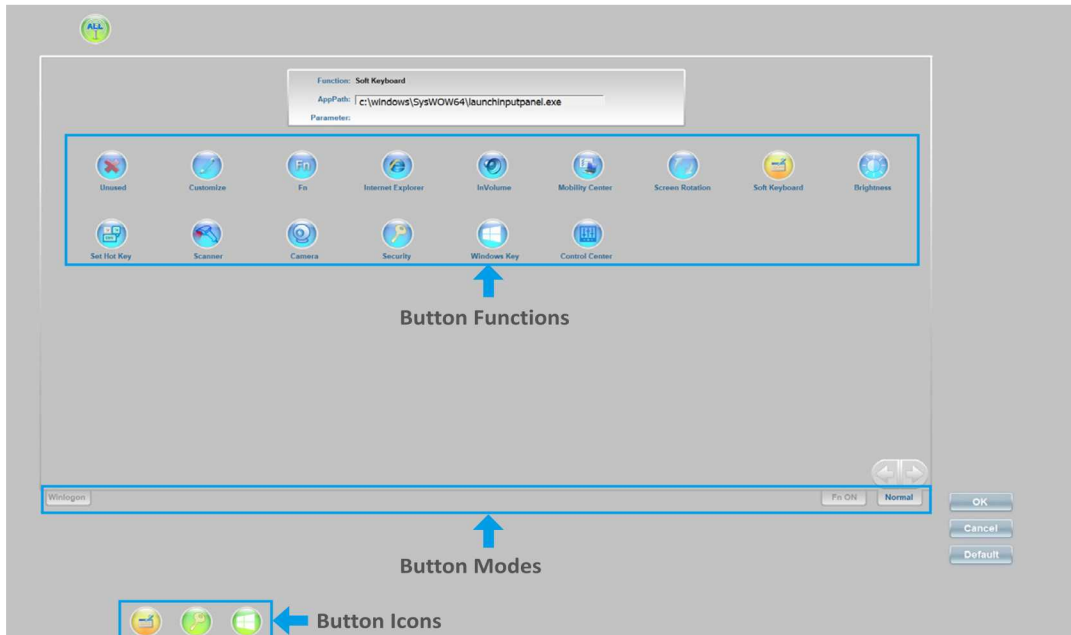
The Button Manager is the User Interface to manage the physical buttons on DT Research computing system products. Most of the systems have physical buttons that allow users to quickly access certain functions, like Barcode Scanner trigger, OnScreen keyboard, Windows Key trigger, adjust system volume/screen brightness, and launch user-defined applications. Pre-defined buttons are set up for most common uses.

Access to Button Manager from Windows Desktop

The Button Manager application can be launched from the **Windows System Tray**. Tap  to open the Button Manager configuration user interface.



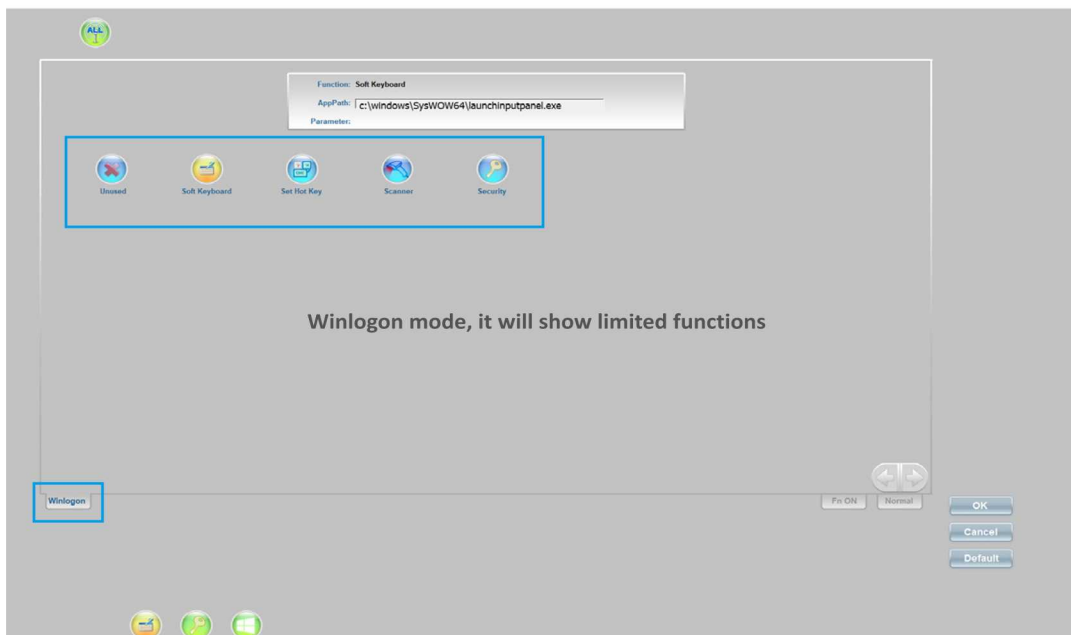
The configure user interface has three major parts: Button Icons, Button Functions, Button Modes.



The Button Icons are located close to physical button locations. The icons show current assigned function. Button functions section will list all available functions for current system model.

NOTE: Different models may have different functions available.

Button modes: The button assignment for Windows logon page and normal desktop page is different. Not all functions are available for Windows logon mode. And if the system has more physical buttons, you can assign one button as “Fn” button, to make other buttons have an another set of functions by holding down the Fn button.

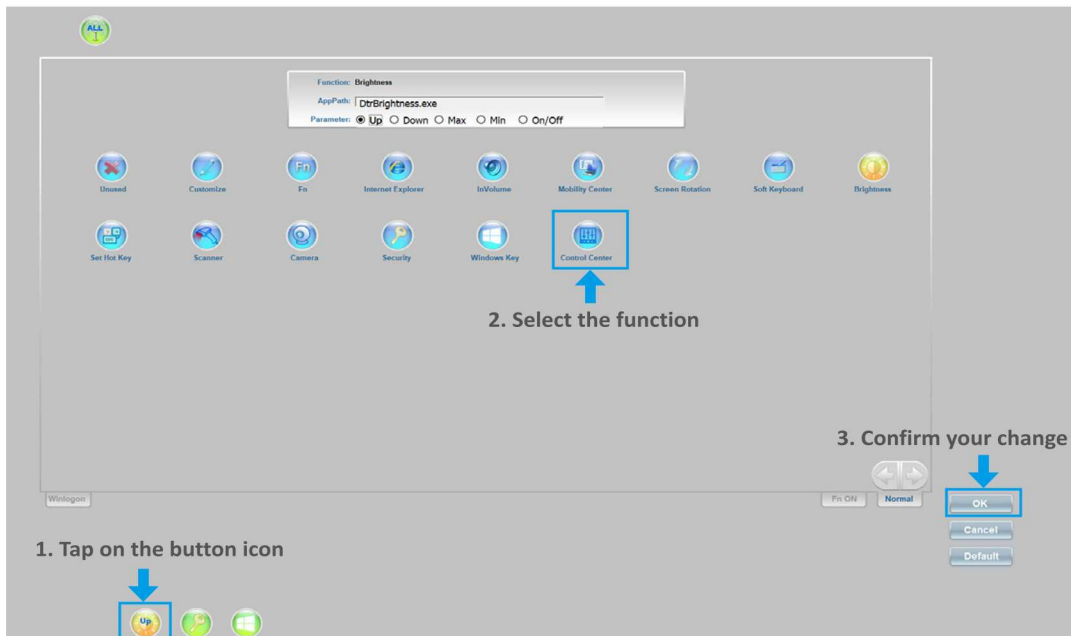


Assign a Function to a Button




Buttons are pre-defined for most common uses. To view/change the function assigned to a button:










1. Tap on the button icon you want to work on, the current assigned function will be highlighted in the button function area.
2. Select the function to assign in the button function area by tapping on the related icon.
3. If the selected function has a 2nd level parameter, you will be prompted to input your options. For example; Brightness has the options of Up, Down, Max, Min, On/Off.
4. Once you confirm your option, the assignment is done. You can continue to configure the rest of the buttons.




By default, all functions are configured for “Normal” desktop mode. If you want to assign a button to function under “Winlogon” mode, you need to switch the mode to “Winlogon”. Then follow the above “Assign a function to a button” to change any assignment of the button.



Button Function Descriptions

| | |
|--|---|
|  <p>Unused</p> | <p>A button with no function. You can use this function to disable one button.</p> |
|  <p>Customize</p> | <p>A button to launch an application within parameter. 2nd option to input necessary application path and parameter.</p> <div data-bbox="472 1654 1327 1776" style="border: 1px solid gray; padding: 5px;"> <p>Function: Customize</p> <p>AppPath: <input type="text"/> Browsing...</p> <p>Parameter: <input type="text"/></p> </div> |
|  <p>Fn</p> | <p>A button to define as Fn button. It needs to be combined with other buttons to function (not recommended unless you need more button functions than there are physical buttons).</p> |

| | |
|--|--|
|  Internet Explorer | A button to launch Internet Explorer. |
|  InVolume | A button to adjust system sound volume. 2 nd option to choose volume Up, Down, and Mute. <div data-bbox="470 331 1324 453" style="border: 1px solid gray; padding: 5px; margin-top: 10px;"> Function: InVolume AppPath: <input type="text" value="c:\windows\SysWOW64\adjsound.exe"/> Parameter: <input checked="" type="radio"/> Up <input type="radio"/> Down <input type="radio"/> Mute </div> |
|  Mobility Center | A button to launch "Mobility Center". |
|  Screen Rotation | A button to trigger screen rotation; 2 nd option to choose rotation degree of 90, 180, 270. <div data-bbox="470 659 1324 781" style="border: 1px solid gray; padding: 5px; margin-top: 10px;"> Function: Screen Rotation AppPath: <input type="text" value="c:\windows\SysWOW64\screenrotate.exe"/> Parameter: <input checked="" type="radio"/> 90 degree <input type="radio"/> 180 degree <input type="radio"/> 270 degree </div> |
|  Soft Keyboard | A button to launch onscreen keyboard. |
|  Brightness | A button to change brightness settings; 2 nd option to choose brightness Up, Down, Maximum, Minimum, and screen On/Off. <div data-bbox="470 1031 1324 1152" style="border: 1px solid gray; padding: 5px; margin-top: 10px;"> Function: Brightness AppPath: <input type="text" value="DtrBrightness.exe"/> Parameter: <input checked="" type="radio"/> Up <input type="radio"/> Down <input type="radio"/> Max <input type="radio"/> Min <input type="radio"/> On/Off </div> |
|  Set Hot Key | A button to set Hot Key; 2 nd option to choose Ctrl, Alt, Shift, and the key. <div data-bbox="518 1226 1273 1472" style="border: 1px solid gray; padding: 10px; margin-top: 10px;"> Set Hot Key ✕ <input type="checkbox"/> Ctrl + <input type="checkbox"/> Alt + <input type="checkbox"/> Shift + <input type="text" value=""/> <input type="button" value="OK"/> <input type="button" value="Cancel"/> <div style="border: 1px solid gray; padding: 2px; display: inline-block; vertical-align: middle;"> C D E F </div> </div> |
|  Scanner | A button to trigger barcode scanner embedded in system. |
|  Camera | A button to trigger Camera. It only works with DTR Camera app (DTMSCAP). |

| | |
|---|--|
|  Security | A button to trigger system Security key (Ctrl-Alt-Del combination). |
|  Windows Key | A button to trigger "Windows Key". |
|  Control Center | A button to launch "Control Center", a DTR application to provide major system setting controls. |

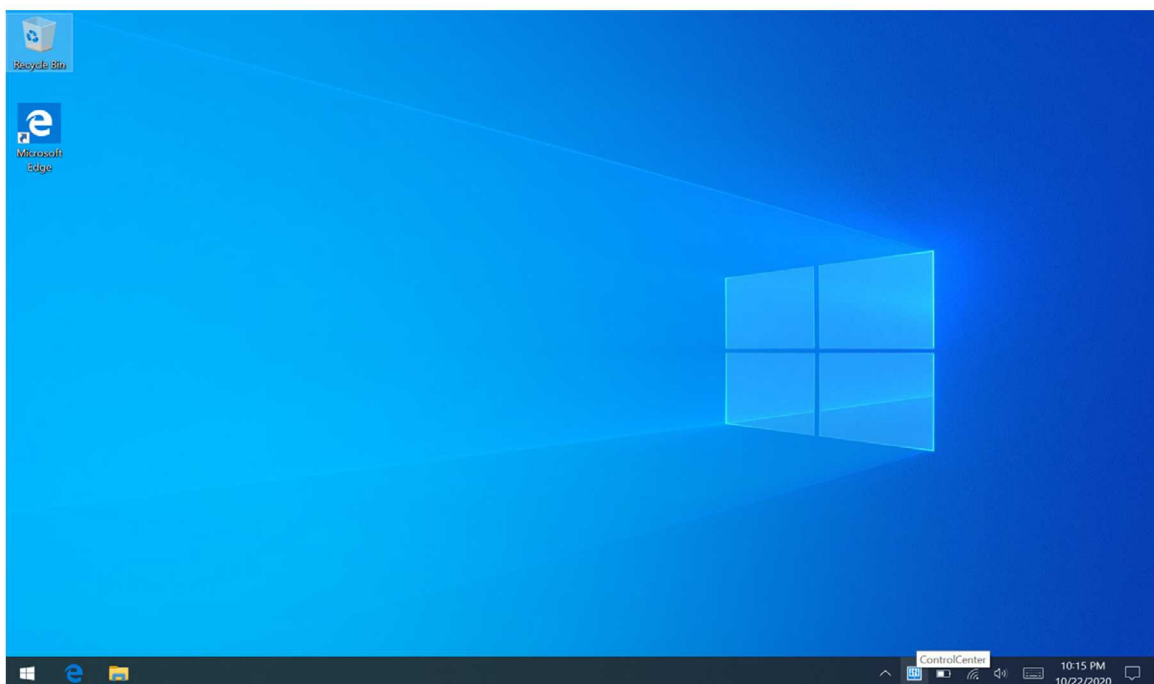
Control Center for Rugged Tablets and Laptops Operation Guide

Introduction

The Control Center is the central portal to access major system modules and settings. Authorized users can enable/disable radios (Wi-Fi, Bluetooth, or optional WWAN) and/or optional modules. All users can change the settings for all modules to adjust the LCD brightness, screen orientation, and touch modes based on where and how the tablet is being used so it benefits the end users the most.

Access to Control Center from the Windows Desktop

The Control Center application can be launched from the **Windows System Tray**. Tap  icon to launch the software.

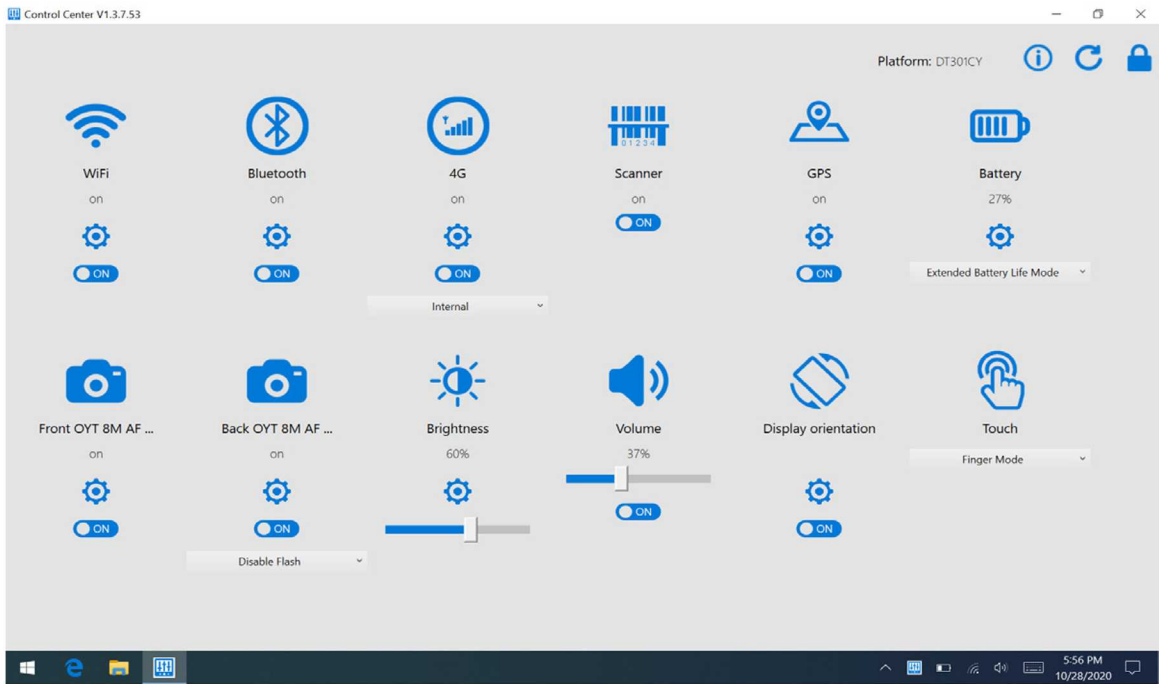



Once the application is launched, the Control Center runs under **Normal User Mode**.

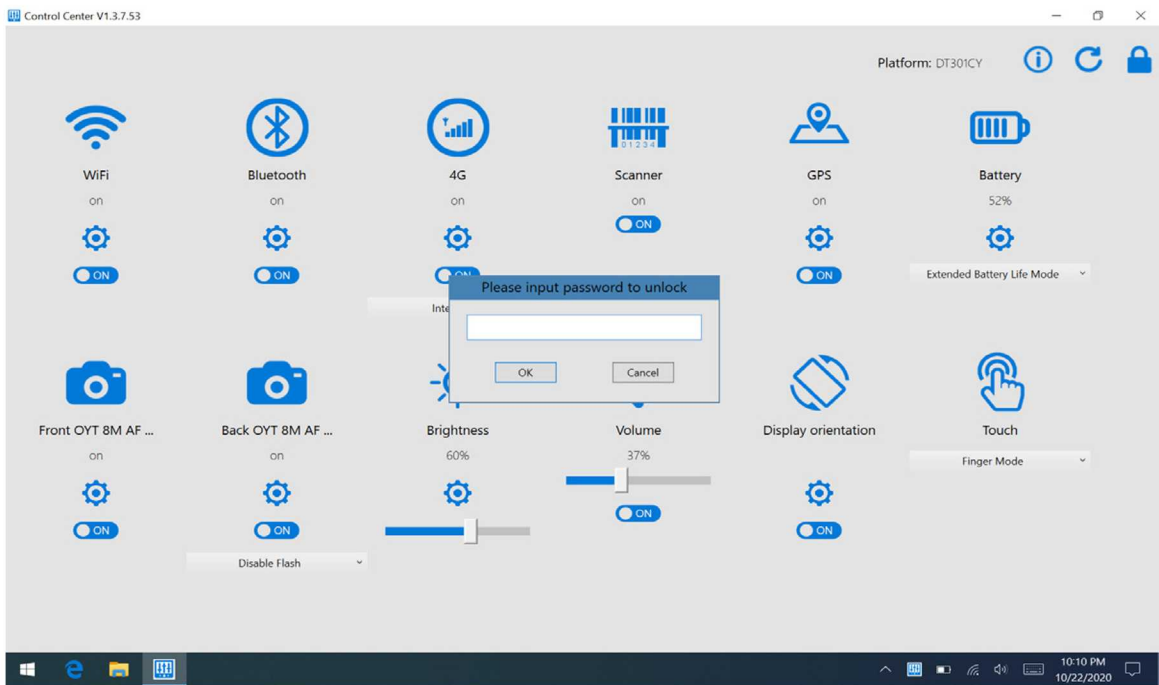
Under this mode, you cannot turn on/off the modules, like Wireless, Bluetooth, Cameras, GNSS, and Barcode Scanner. You will see the module and settings icons below.

NOTE:

The module icon(s) will be displayed only when there is/are related module(s) installed on your tablet and laptop.







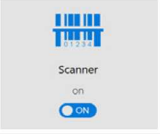



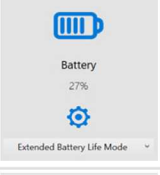

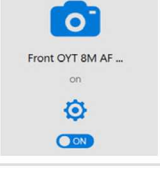





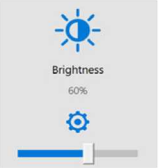

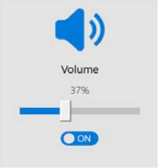
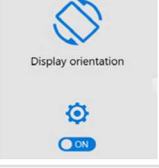


To access the **Authorized User Mode**, click on the lock icon  in the top right corner of the application window, then a dialogue window opens for the authorized user to enter the password. The default password is **DTRI** (all caps).



The module and settings icons will be shown as below; same as Normal User Mode.


Module Function Settings

| | |
|--|---|
|  <p>WiFi on ON</p> | <p>Tap the On/Off button to enable or disable the WLAN connection.* Tap  to enter the Microsoft Windows Settings for the advanced adjustment.</p> |
|  <p>Bluetooth on ON</p> | <p>Tap the On/Off button to enable or disable the Bluetooth connection.* Tap  to enter the Microsoft Windows Settings for the advanced adjustment.</p> |
|  <p>4G on ON Internal</p> | <p>Tap the On/Off button to enable or disable the 4G WWAN/LTE connection.* The drop-down menu allows users to select to use internal or external antenna. Tap  to enter the Microsoft Windows Settings for the advanced adjustment.</p> |
|  <p>Scanner on ON</p> | <p>Tap the On/Off button to enable or disable the Barcode Scanner module.* Tap  to enter the Microsoft Windows Settings for the advanced adjustment.</p> |
|  <p>GPS on ON</p> | <p>Tap the On/Off button to enable or disable the GNSS module.* Tap  to enter the Microsoft Windows Settings for the advanced adjustment.</p> |
|  <p>Battery 27% ON Extended Battery Life Mode</p> | <p>The drop-down menu allows users to quickly switch the power modes of the tablet. Select Max Battery Performance Mode to enable the system performance, and to save the system power, select Extended Battery Life Mode. Tap  to enter the Microsoft Windows Settings for the advanced adjustment.</p> |
|  <p>Front OYT 8M AF ... on ON</p> | <p>Tap the On/Off button to enable or disable the Front Camera module.* Tap  to enter the Microsoft Windows Settings for the advanced adjustment.</p> |
|  <p>Back OYT 8M AF ... on ON Disable Flash</p> | <p>Tap the On/Off button to enable or disable the Back Camera module.* The drop-down menu allows users to enable and disable the LED flash light. Tap  to enter the Microsoft Windows Settings for the advanced adjustment.</p> <div style="border: 1px solid #add8e6; padding: 10px; margin-top: 10px;"> <p>NOTE: The LED flash lights are for certain models, and the drop down menu is only available when there are LED flash lights installed.</p> </div> |

| | |
|--|--|
|  | <p>Slide the bar to adjust the screen brightness, supports 0% to 100%. Tap  to enter Dimmer Control.</p> |
|  | <p>Tap the On/Off button to turn the speaker on or off. Slide the bar to adjust the volume, supports 0% to 100%.</p> |
|  | <p>Tap the On/Off button to lock or release the screen rotating. Tap  to enter the Microsoft Windows Settings for the advanced adjustment.</p> |
|  | <p>The drop-down menu allows users to quickly select the screen sensitivity. It supports Finger Mode, Glove Mode, and Water Mode.</p> <p>NOTE: Water Mode supports workable capacitive touch while there is water on the screen.</p> |

*Can be set up only under the Authorized User Mode

More Settings

After setting up, the authorized user is allowed to exit the authorized user mode by tapping .

The Control Center will automatically refresh the module status. To manually refresh the module status, tap .

To change the authorized user password, tap  and a dialogue window opens. Enter the current password, then the new password. Tap **OK** to save the settings.

