ALGIZ 8X

User's Manual V1.0

handheld

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We provide service guide for any problem as follow steps：

1. Visit Handheld website www.handheldgroup.comto get the updated product information.
2. Contact with your distributor, sales representative, or our customer service center for technical support if you need further assistance. You may have the following information ready before you make the phone call：

➢ Product serial number
➢ Peripheral attachments
➢ Software (OS, version, application software, etc.)
➢ Detailed description of problems
➢ The exact wording or print screen images of any error messages

In addition, free technical support is available at Handheld in every business day. We are always ready to provide guidance in terms of application requirements or specific information in terms of installation and operation of all our products. Please feel free to call or e-mail us.

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Safety Precautions

● Warning!

Always completely disconnect the power cord from the device before you uncover the device and work on the hardware. Do not connect the electronic device with power socket while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel are suggested to open mechanical housing.

● Caution!

Always ground yourself to remove any static charge before touching the CPU card. The electronic devices are very sensitive to static electricity. For safety concerns, please use a grounding wrist strap all the time. Place all electronic components in a static-dissipative surface or static-shielded bag when they are outside of the chassis.

UL Safety Announcement

UL Classification: Class I mark: with respect to electronic shock; Fire and hazardous material only in accordance with the regulation of UL-60950 and CAN/CSA C22.2 No. 601.1.

● Power Supply Announcement

The Handheld Rugged Tablet PC Power is supplied by Power Adapter and Battery Pack, the power rating announcement and manufacturer information are listed as below.

Power Notice!

Please notice that the power code of adapter needs to be connected to the ground (earth).

Please push the power button for at least 4 seconds to enter sleep mode.

Starting and Stopping the Tablet PC).

Power Adapter	Manufacture: EDAC Power Electronics Co Ltd Model: EA10633B(01)Level IV Input Rated: 100-240Vac, 2.0A, 50-60Hz. Output Rated: DC ⎓ 19V, 3.42A.
Battery Pack	Manufacture :JHT Electronic Co., Ltd Model: ALG8X-08A Rated: 5200mAh DC 7.6V

WARNING

Do not fix or replace battery, it may cause explosion!
Only use with specified battery by following the
manufacturer's user manual's instruction.

handheld

Chapter 1
Read Me First

1. Safety Information

Follow and adhere to all warnings and instructions in this manual. For your safety, please read all safety and operating instructions before using the product. Keep this manual for future reference.

⚠️ *Precaution on Battery Pack*

1. Do not expose the battery pack to excessive heat, or extreme heat (Near fire, in direct sunlight for example) generation of heat, ignition or rupture may result

2. Do not disassemble, modify, or insert sharp objects into the battery pack. Electrolyte leakage, generation of heat, ignition or rupture may result.

3. Do not short the Positive (+) and Negative (-) terminals of the battery. Generation of heat, ignition or rupture may result. When carrying or storing the device, do not place the battery pack together with articles that may contact electricity.

4. Do not apply shocks to the battery by dropping it or applying strong pressure to It. Electrolyte leakage, generation of heat, ignition or rupture of battery may occur.

5. Do not charge the battery other than methods those spec using one of the specified methods, electrolyte leakage.

6. When the battery pack has deteriorated, replace it with a new battery. Continued use of a damaged battery pack may result in heat generation, ignition or battery rupture.

7. Do not use the battery pack with any other products. The battery pack is rechargeable and is only designed for this specific product. If it is used with a product generation of heat, ignition or rupture may result.

8. Do not use this product with battery other than the On

9. Risk of explosion if battery is replaced by an incorrect type. Dispose of Used Batteries According to the Instructions.

⚠️ *General Product Safety*

1. This product should not be used near water such as bathtubs, sinks, swimming pools, wet basement, etc.

2. Do not block any ventilation openings. Do not place the product against a wall or in an enclosed space as doing so might impede the flow of cooling air.

3. Do not place the product near any heat sources such as radiators, warm air intakes, stoves or other heat-generating devices (including amplifiers or other heat

4. Do not disregard the safety that a polarized or grounded connection can provide. A polarized connection consists of two plugs, one of which is larger than the other. A grounded connection has two blades and a third one that is grounded. If the main plug provided cannot be inserted into your outlet, consult an electrician to replace your obsolete outlet.

5. Protect the power cord from being crushed or pinched, particularly in the area of the plugs, any receptacles used, and the point of exit from the apparatus. Do not break off the ground pin of the power cord.

6. Use only accessories specified. by the manufacturer

7. Use only with its transport carriage, stand, tripod, c product. When using a carriage, move the carriage assembly with the product carefully to avoid damage from falling over.

8. Unplug this apparatus during lightning storms or when it is not being used for long periods.

9. Refer all servicing to qualified service personnel. A been damaged in any way, for example if the power cord have fallen inside the unit, if the product has been exposed to rain or moisture, if it does not operate normally or if it has been dropped.

2. Handling and Maintenance

Follow and adhere to all warnings and instructions in this manual. For you'rethelongevity of the product usage, pleaseread all operating instructions before usingthe product. Keep this manual for future reference.

⚠️ *General Guideline*

1. Keep the product at least 13 cm (5 inches) away from electrical appliances that can generate a strong magnetic field such as TV, refrigerator, motoror a large audiospeaker.

2. Do not place heavy objects on top of the tablet computer as this may damage the display.

3. The screen surface can be easily scratched. Use with care. Do not use paper towels to clean the display but use the included cleaning cloth. Avoid touching it with a pen or pencil.

4. To maximize the life of the backlight in the display, allow backlight to automatically turn off as a result of power management. Avoid using a screen saver or other software that prevents the power management from working.

⚠️ *Cleaning Guideline*

1. Use a soft cloth moistened with water or a non-alkaline detergent to wipe the exterior of the product.

2. Gently wipe the display with a soft, lint-free cloth. Do not use alcohol or detergent on the product.

⚠️ *Touchscreen Guideline*

1. Use your finger or the stylus on the display.Using sharp or metallic object may causescratches and damage the display, therebycausing errors.

2. Use a soft cloth to remove dirt on the display. The touchscreen surface has a special protective coating that prevents dirt from sticking to it. Not using a soft cloth may cause damage to the special protective coating on the touchscreen surface. To clean off hard to remove dirt, blow some steam on the particular area and gently wipe away using a soft cloth.

3. Do not use excessive force on the display. Avoid placing objects on top of the display as this may cause the glass to break.

4. When there is a noticeable discrepancy in the operation of the touchscreen function (your touch does not correlate to the proper location on the screen), recalibrate the touchscreen display.

Chapter 2
Getting Started

Thank you for purchasing ALGIZ 8X rugged Tablet Computer. The rugged design allows you to use it in harsh outdoor environments.

This chapter tells you step by step how to get the Tablet Computer up and running. You will find instructions for the following procedures:

- System Specification
- Unpacking
- Description of Parts
- First Time Operations
- Powering On/Off

1. System Specification

System	
Processor	Intel® Pentium® Processor N3710 (2M Cache, up to 2.56 GHz)
BIOS	AMI System BIOS
Memory	1 x SODIMM, DDR3L 16004GB
Storage	SATA III 6Gb/s M.2 SSD 128GB
Audio	Digital Microphone with noise canceling (Internal) 1.5W Speaker (Internal)

Display Specification	
Size	8" (16:10)
Resolution	800 x 1280
Brightness	700 cd/m2 (typ.)
Touch	Projected Capacitive Touch.Support Normal Mode, Rain Mode, Gloves Mode.

I/O Connectors	
Right Side	2x USB 3.0 , 1xMicro HDMI ,4 different types of inter-changeable I/O Port(Dummy--Deafault,LAN,COM,2D Barcode,

Bottom Side	1x Pogo-pin for Docking, 1x DC Power Jack
Rear Side	1x Pogo-pin for Expansion I/O Port

Buttons and Indicators	
Control Button	1 x Power (Front) 1 x Touch Lock Key,1 x Menu Key, 1x Home Key, 2 programmable Function Keys
LED indicators	1 x Power LED (Green) 1 x Storage(Green) 1 x Battery (Green & Red) 1 x Configuration (It should be off unless configured by the user.)

2. Unpacking

Check and identify the supplied accessories:

- Tablet Computer

- Standard Battery
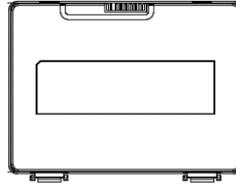
- Power Adapter

- Power Cord and Plugs

- Capacitive Touch Stylus(Optional)
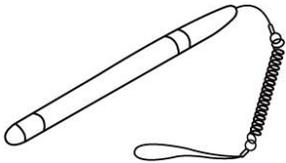
3. Description Of Parts
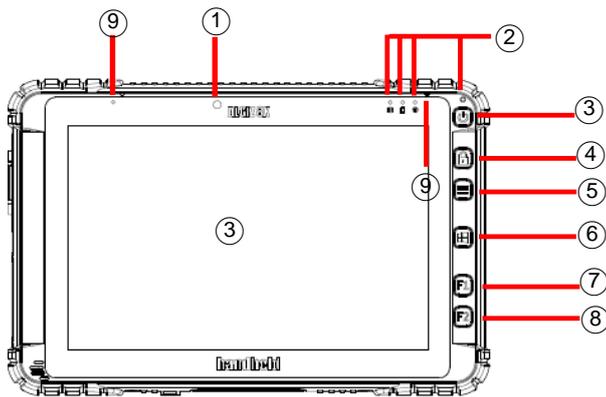
Front: **Left:**
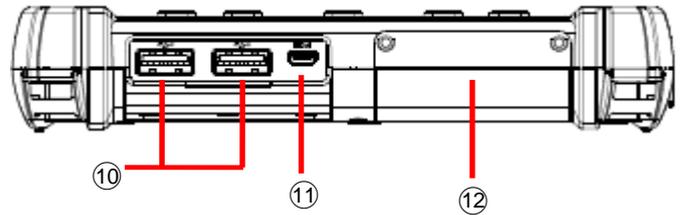
No	Item	Description
1	Front Camera	2 Megapixel Webcam
2	LED Indicators:	Show the current status of the Tablet Computer
	Front LED Indicators Detail:	
3	Touch Screen	Display and act as one of the inputs for the Tablet Computer
4	Power Button	Power on/off tablet
5	Touch Lock	All function keys and touch will not be able to work.
6	Menu Button	Hottab Quick Access
7	Home Button	Windows Start Menu
8.	F1 Button	Programmable function key configured by Hottab Utility

No	Item	Description
8	F2 Button	Programmable function key configured by Hottab Utility
9	Digital Microphone	With noise canceling function.
10	USB 3.0	High speed USB port connects to USB devices, such as USB flash drive, mouse, keyboard, printer, etc.
11	Micro HDMI	HDMI output to external display
12	Changeable I/O Port	Adapter port for LAN/RS232/2D Barcode Reader. Default is dummy.
13	Power Jack	DC-IN power input jack
14	MicroSD Card Reader	Memory card reader port for MicroSD Card

Rear:
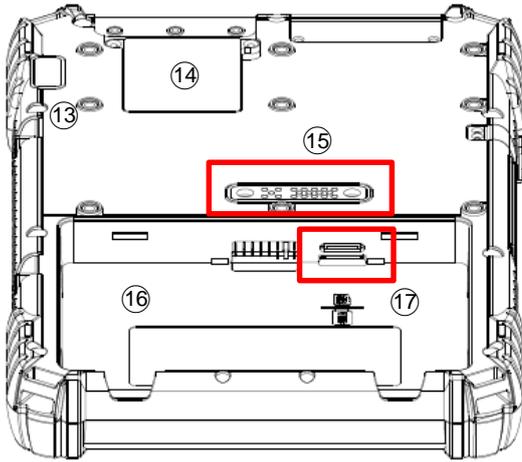
Bottom:
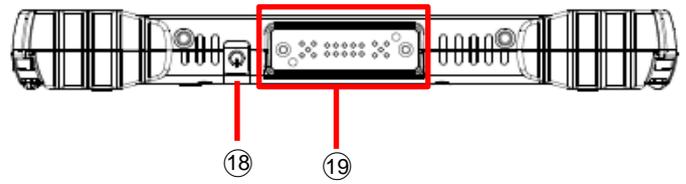
No	Item	Description
13	Rear Camera	8MP Autofocus Camera. Captures photos and videos.
14	Service Windows	
15	Expansion Port	Provide optional connectivity to custom modules for special application (Lima,Hotel).
16	Main Battery Slot	For Main Battery pack.

No	Item	Description
17	MicroSD Card Port	Memory card card reader port
18	Power Jack	DC-IN power input jack
19	Docking Connector	Port to docking solutions such as vehicle docking to provide power and external antenna

4. HotKey For Specific Functions

For the physical buttons on the ALGIZ 8X tablet computer, in addition to their dedicated functions detailed in the previous section, they can also be used to emulate commonly used keyboard key strokes. Under different scenario, a single physical button or acombination of physical buttons provide different keyboard key strokes, which are specified below:

Under POST (before Windows boots up):

Buttons	Keystroke
Menu	F7 to enter BIOS setup screen
F1	Recovery Menu
F2	ESC
Menu + F1	Enter

Under Windows:

Buttons	Keystroke
Power	Power ON/ OFF
Touch Lock	All function keys and touch will not be able to work.
Menu	Hottab Quick Access
Home	Normal start menu Quick Access
F1	Default: Web Browser
F2	Default: Windows 10 Action Center

LED Indicators:

Item		Description
Power Indicator	⏻	**Green**– Tablet is ON **No light** – Tablet is OFF
Battery Status	🗲	**Orange** – AC adapter is plugged in and charging **Green** – AC adapter is plugged in and battery is full charged **Solid Red** - Low battery (<10%) **Blinking Red** – Battery is being hot swapped. **No light** – Battery is in use and more than 10%
Disk Activity Indicator	≡	**Green** - Disk Activity **No light** - Disk Idling
Configuration)	ⓘ	It should be off unless configured by the user.

5. First-time Operation

Inserting Battery Pack

To insert the standard battery pack into the Tablet Computer:

1. Disconnect AC adapter and power cord from the tablet computer.
2. Turn the tablet computer over, back facing up.
3. Insert the battery on the connector-pins side first, and then lower the battery into the battery compartment. Continue to hold the Battery before battery is fully inserted.
4. Make sure the battery is completely lowered into the compartment before letting go the Battery will be flat against the housing once fully inserted
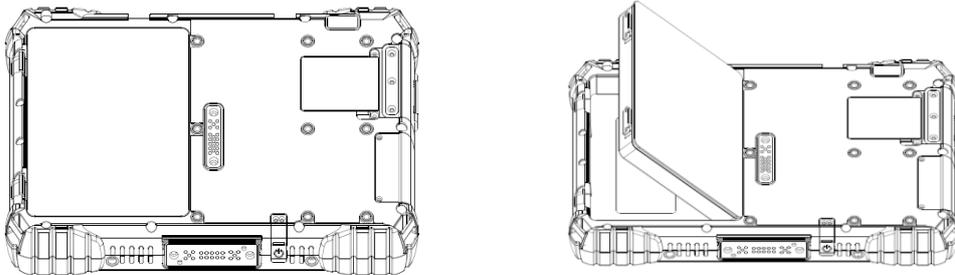
Removing the Battery Pack

1. Power off the tablet computer (or put it to sleep). Disconnect any cords connected to the computer.
2. Turn the tablet computer over, back facing up.
3. Lift the battery out using the opening on side of battery compartment.

Connecting to Power Supply

The Tablet Computer operates either on external AC power or internal battery power. It isrecommended to use AC power when you start up the Tablet Computer for the first time.

⚠️ **Caution**	Use only the AC adapter included with your Tablet Computer. Using other AC adapters may damage the Tablet Computer and the Battery.

⚠️ **Caution**	For users start up the Tablet Computer for the first time with internal battery power, please make sure the battery is full charged before using.

Perform the following to connect the Tablet computer to AC Power:

1. On the side of the Tablet computer, lift the I/O protective cover by pulling on the latch
2. Plug the DC cord of the AC adapter into the Power Jack of the tablet computer.
3. Plug the AC power cord into the AC adapter.
4. Finally, Plug the AC power cord into the electrical outlet.
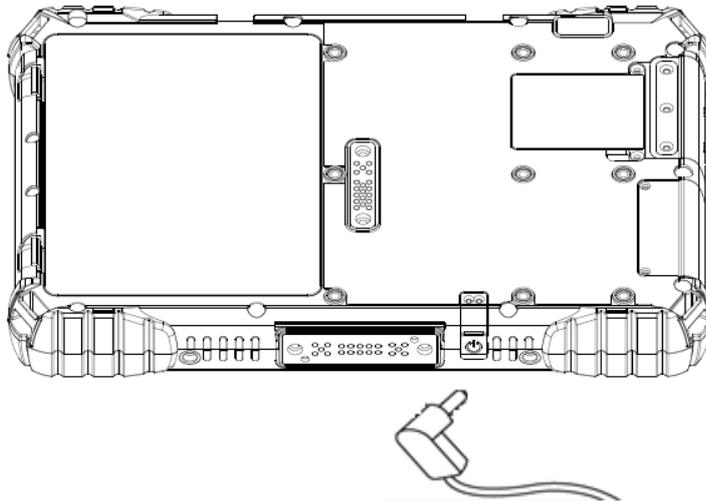
When the AC Adapter is connected, the battery pack starts charging. The battery LED indicator on the tablet computer would show different states. Please refer to description of LED indicator on Description of Parts.

Item	Hours
Battery Life	
Standard Battery (ALG8X-08A)	6.75 Hours
High Capacity Battery (ALG8X-08B)	13 Hours

6. Powering On / Off

Powering On

Press and hold the power button for **3.5 seconds** until the blue LED power indicator light up.

Note:

- Do not press the power button repeatedly.
- Do not perform the following operations until the Disk Activity Indicator off
    - Connecting or disconnecting the AC adapter
    - Pressing the power button
    - Touching the tablet buttons, screen, or external keyboard/mouse

Powering Off

Perform the following procedure to power off the Tablet Computer:

1. Make sure you have closed any programs that are open on the Desktop.
2. Under Windows 10 OS, click the Start menu, you'll see a lengthy pop-up shortcut menu .
3. Tap on **Power**.
4. Tap on **Shut Down**.
5. Wait for Tablet Computer to power off.

Note:

- The computer will forcibly be powered off if the power button is pressed and held for **6 seconds or longer**.

Chapter 3
Set up Windows for the First Time

⚠️ **Caution**	**For users start up the Tablet Computer for the first time with internal battery power, please make sure the battery is full charged before using.**

This section details how to setup different version of the Windows that may be installed on the tablet for the first time.

Note:

• Please notice that BIOS will vary with different Windows OS; for users going to change OS, please contact our sales contact window for details.

1. Setting up Windows 10

This section details how to setup different version of the Windows that may be installed on the tablet for the first time. 3.1 Setting up Windows 10 IoT Enterprise Follow the steps below to complete the setup process.

1. Press the power button to turn on the computer.

2. First, select your country/region, your preferred app language, your preferred keyboard layout, and your time zone, then tap Next.

3. On the Here's the legal stuff screen, read through the disclosures, then tap Accept.
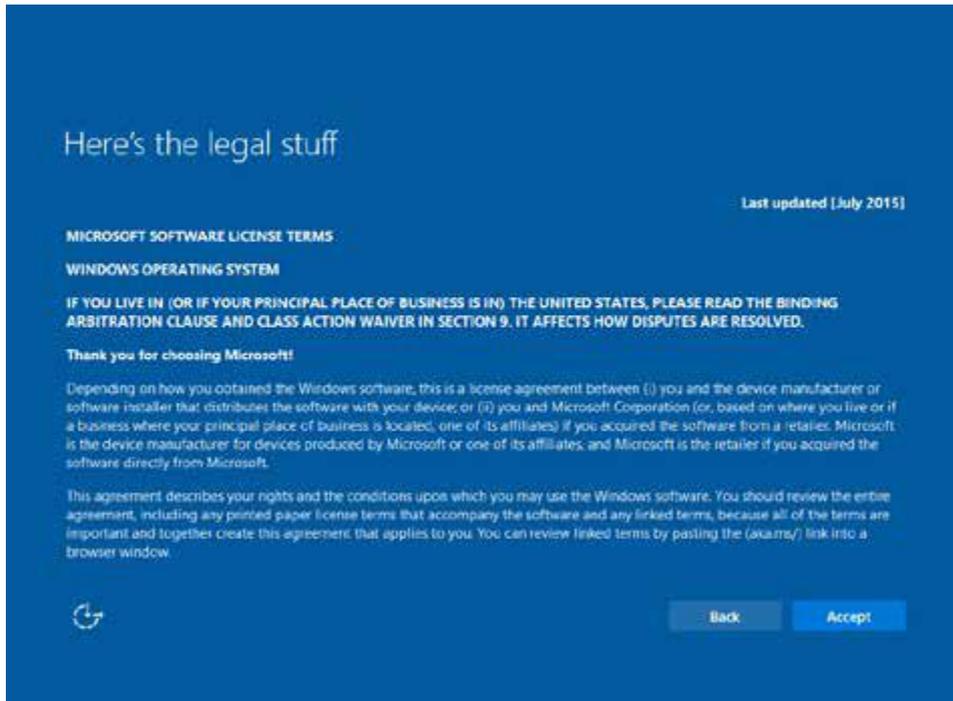
4.   Windows will then try to connect to network. Tap Skip this step to continue without a wireless connection as you can then set up the network later.
5. On the Get going fast screen, click Use Express settings for the fastest setup. If you would like more information, tap Learn more, or if you would like to select your own options, click Customize settings.
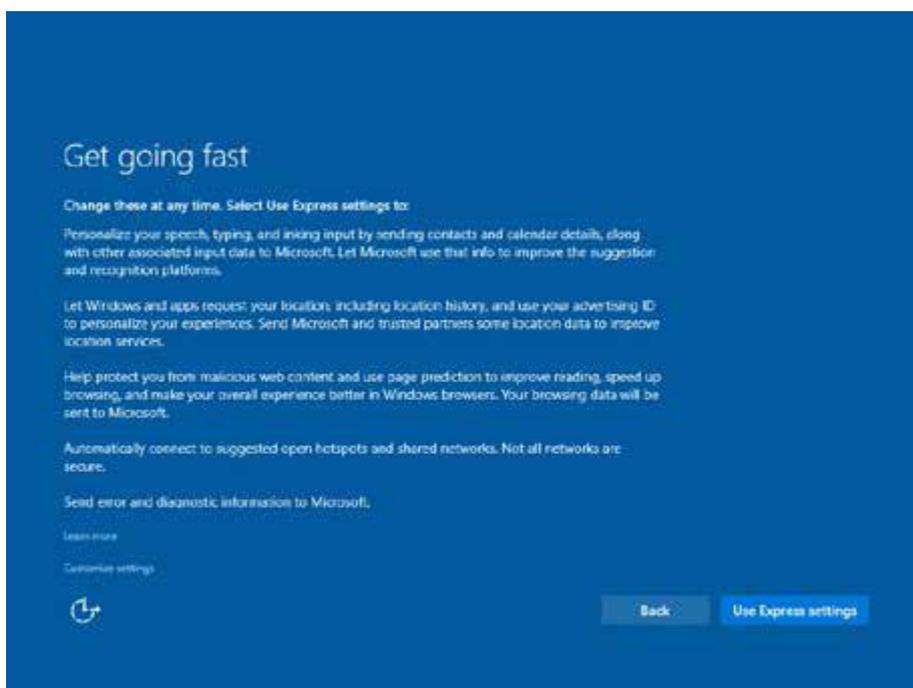
6. To create a local account, type your User name, password, and Password hint in the fields provided, then tap Next.
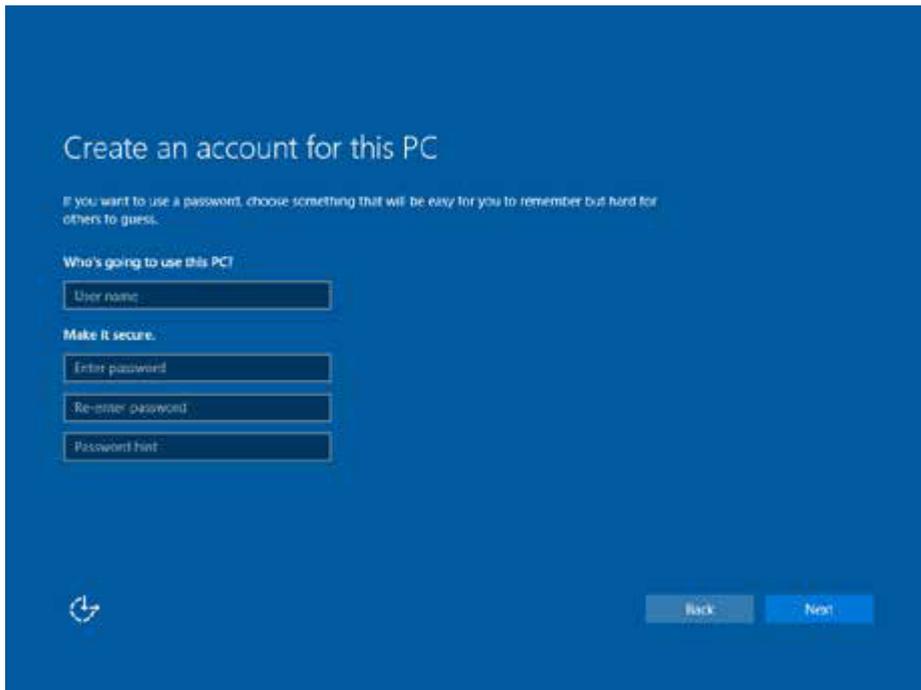
7. The initial setup screens are complete, and the desktop is displayed.
8. Read any introductory screens describing features of your computer, and tap Next upon completing each. You are now done with the initial setup process

Chapter 4
Quick Access through Hottab

1. Hottab Introduction

Hottab provides quick access to the tablet's functions and features, such as setting up shortcuts, using camera, powering on/off built-in devices, programming function key, and changing power management.

As Windows starts up, Hottab starts and runs in the background. To display the Hottab control utility, press the 📄 (Menu) Button located on the front panel, or launching the Hottab Utility application.

📄 **(Menu) Button on the Front Panel:**   **Hottab Utility Icon:**

The main user interface is located on the right side of the screen. There are 3 main menu options: Device ON/OFF, Settings and Touch Lock. Operations and functions on each menu options is explained in detail in the coming section.

	Device button enables/disables tablet computer's hardware functions. The configurable functions are Wi-Fi, GPS, Bluetooth, Camera and Touch mode options..
	Setting button provides users information such as PC Information, Battery status, and also device settings such as power management setting, and function key mappings.
	Disable the double click and front panel OSD functions.

2. Device ON/OFF

This section provides a quick access to set-up built-in devices, including turning on/off RF modules, camera module and setting up touch mode.

Using theWireless LAN (Wi-Fi) feature

To use the wireless LAN (Wi-Fi) feature to connect to the network, perform the following procedure:

1. Open the Hottab utility by press the 📄 (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on the **Device** button.
3. Check the status color of the **Wi-Fi** icon:

Item	Status Color	Description
	Orange	Wi-Fi is enabled.
	White	Wi-Fi is disabled.

4. If the Wi-Fi feature is disabled (white), tap on the Wi-Fi icon to enable it (orange).
5. Click the wireless network connection status icon in the Windows notification area. A list of available wireless networks is displayed.
6. Double-click a network to connect to it. Provide required authentication information if needed.

7. To check the connection status, observe wireless network connection status icon in the Windows notification area. The more bars the icon shows, the better the wireless LAN connection strength is.

8. Now wireless LAN connection is setup, try connection to the network with an internet browser such as Internet Explorer.

Using the GPS feature

To enable the wireless GPS feature, perform the following procedure:

1. Open the Hottab utility by press the   📋   (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on the **Device ON/OFF** button.
3. Check the status color of the **GPS** icon:

Item	Status Color	Description
	Orange	GPS is enabled.
	White	GPS is disabled.

4. If the GPS feature is disabled (white), tap on the GPS icon to enable it (orange).
5. Now the GPS feature is ready to be used with an application utilizing the GPS.

Using the Bluetooth feature

To enable the wireless Bluetooth feature, perform the following procedure:

1. Open the Hottab utility by press the ▤ (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on the **Device** button.
3. Check the status color of the **Bluetooth** icon:

Item	Status Color	Description
❋ BT	Orange	Bluetooth is enabled.
	White	Bluetooth is disabled.

4. If the Bluetooth feature is disabled (white), tap on the Bluetooth icon to enable it (orange).
5. Click the Bluetooth icon in the Windows notification area. A contextual menu for Bluetooth is displayed.
6. To add a device, tap on Add a Bluetooth Device. Windows will search any Bluetooth device automatically
7. Choose the Bluetooth device that user wants to connect and follow onscreen prompt to continue the pair procedure and use the Bluetooth device.

Using Camera Features

This Hottab menu option allows users take a picture or record a video. Before use, make sure the Camera is powered on under Devices menu with the following scenarios:

1. Open the Hottab utility by press the ⬚ (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on **Device** button to check the built-in devices status.
3. Check the status color of the **Camera** icon:

Item	Status Color	Description
Camera	Orange	Camera is enabled.
	White	Camera is disabled.

4. If the Camera feature is disabled (white), tap on the Camera icon to enable it (orange).
5. Go back to the Hottab main menu by pressing the ⬚ (Menu) Button located on the front panel OR click on the back arrow on top.

6. Tap on the **HotTabCamera** shortcut to go into the Camera menu. The Camera user interface will take up the entire screen as shown below:
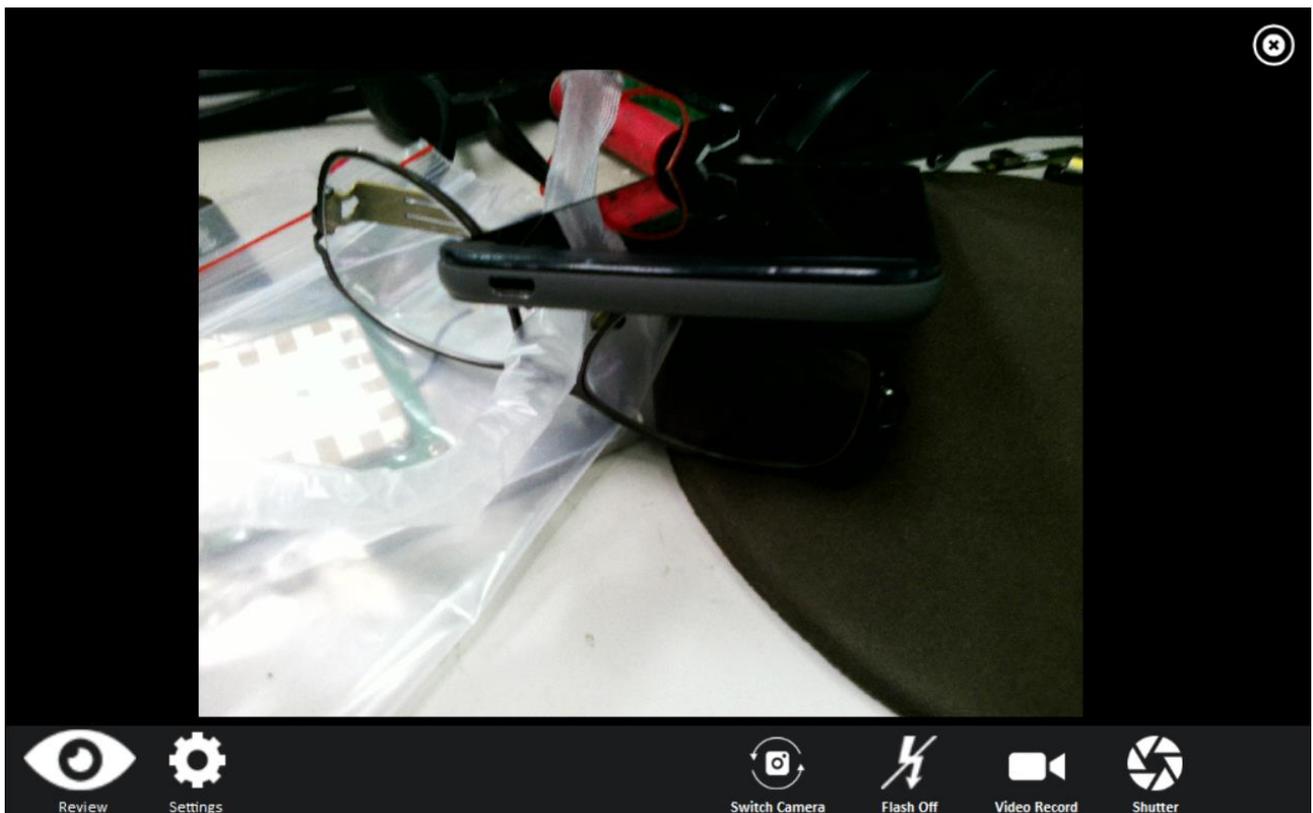
Description of Camera User Interface Buttons:

No	Item		Description
1	**Review**		Preview the take picture.
2	**Settings**		Brings up Camera settings page. Available Settings: • **Photo format:** modify/inspect saved location for pictures. • **Rear Video Resolution:** Picture compression quality. • **File Location:**Opens the location where pictures and videos are saved in a window.
3.	**Switch Camera**		Switches the front or rear camera device.
4	**Flash Control**		Enable/Disables LED Flash when taking picture.
5.	**Video Record**		Video Record Button. Tap to Start, and press again to stop recording.
6	**Shutter**		Camera Shutter Button. Tap to take picture.
7	**Exit**		Exits the Camera and hide Hottab Utility.

Switch Touch Modes

The tablet's advanced capacitive touchscreen has 3 built-in operating modes, for users to choose under different usage scenarios:

Mode	Usage Scenario
Hand/Rain Mode	The Hand/Rain mode is the default operating mode of the touchscreen. Under this mode, the touchscreen is set to have the ability to reject false touch inputs while liquid is present on the touchscreen. Once the liquid is removed from the touchscreen, touch inputs from bare fingertips will continue to operate.
Stylus Mode	Under the Stylus mode, the touchscreen is set to have the ability to pick up touch inputs from the fine-tip passive capacitive stylus that is shipped with the tablet. Touch inputs from bare fingertips will also continue to operate.
Glove Mode	Under the Glove mode, the touchscreen is set to have the ability to pick up touch inputs while the user is operating the touchscreen with gloves on. Touch inputs from bare fingertips will also continue to operate.

To switch between the different touchscreen modes via the HotTab utility, perform the following procedure:

1. Open the Hottab utility by press the (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on the **Device** button.
3. Check the status color of the **Touch Set** icon:

Item	Status Color	Description
	White	Open Touch Mode Select wedge

<u>Touch Mode Selection</u>

Item	Description
Touch Mode	This setting defines the sensitivity of touch screen for different applications. Three options are available: <table> Item / Description table below </table>
Mouse/ Touch Mode	This setting defines the touch points supported. Two options are available:

For the "Touch Mode" row, the embedded table reads:
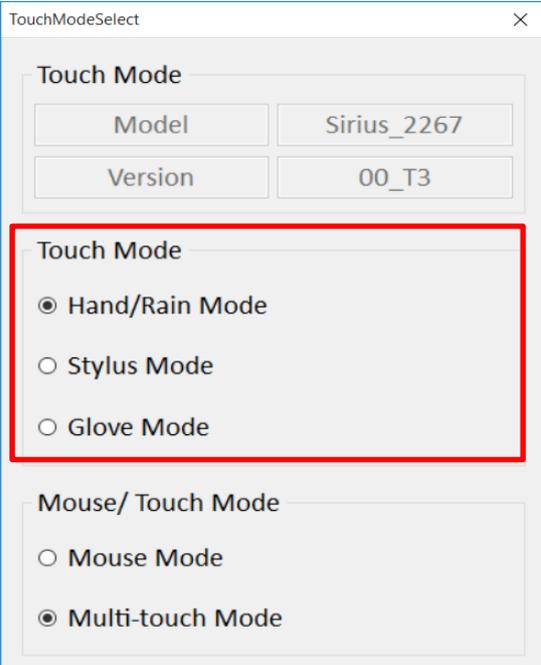
Item	Description
Hand/Rain Mode	The default setting of the touch screen is Hand/Rain Mode, which supports finger control under slight rain.
Stylus Mode	This setting is to have the touch screen compatible with the fine-tip stylus coming with the tablet.
Glove Mode	This setting is to have the touch screen compatible with regular gloves for working station. The touch sensitivity might be effected with different material or thickness of the gloves. To solve these problems, please contact your sales contact window for further touch tuning.

Item	Description
Mouse Mode	Single touch point supported.
Multi-touch Mode	The default setting of the touch screen supports multi-touch mode (up to 10 points).

Using the Expansion Module feature

⚠️ **Caution**	The Expansion Port is optional for ALGIZ 8X Tablet PC and is not re-workable by the end user. To work with Add-on module, please make sure the tablet PC is built-in expansion port before use, or contact our sales contact window for more details.

1.

Expansion Port

Lima

Hotel

Lima
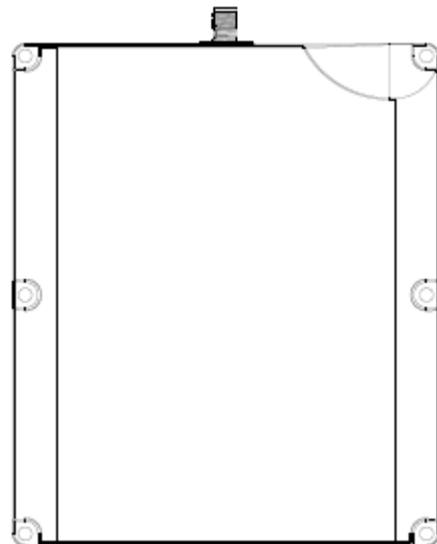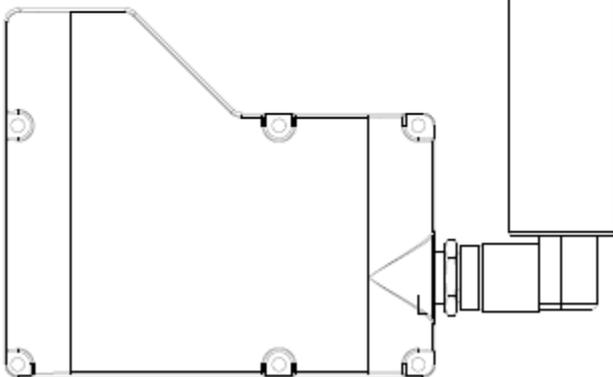
Hotel

2.   Configuration of Lima
     Support NOVATEL OEM-9719B COMPACT, FOUR-FREQUENCY GNSS RECEIVER
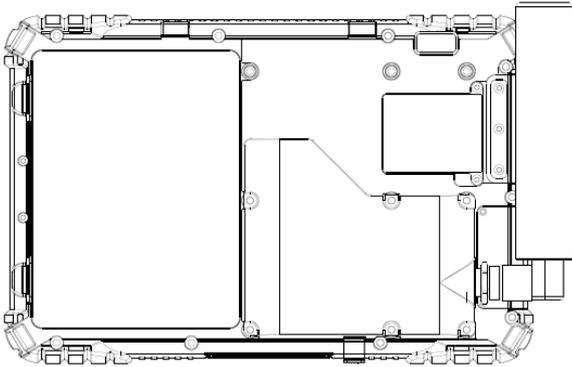
3.   Configuration of Hotel
     Support HF RFID Reader/Smart Card Reader /Sith Card Reader
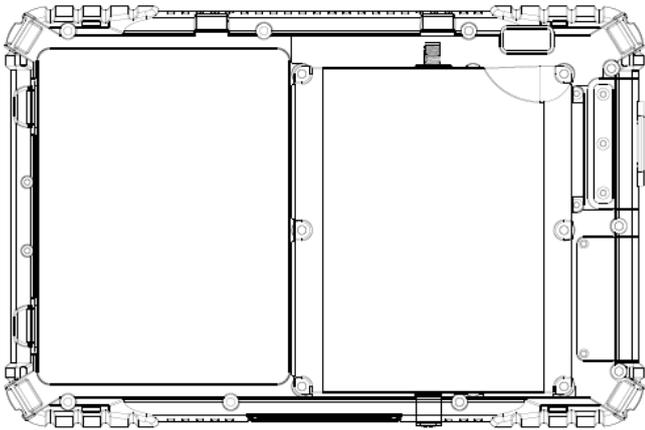
Note: The Ext. Module function allows users to choose either LIMA or Hotel type.

3. Setting

This Hottab menu option provides users information such as PC Information, Battery status, and also device settings such as power management setting, and function key mappings. Perform the following procedure to access the Hottab Setting menu:

1. Open the Hottab utility by press the   📋   (Menu) Button located on the front panel, OR launching the Hottab Utility application.
2. Tap on the **Settings** button.
3. Below shows the items listed in Settings Menu.

PC Information:

This section provides user device information in regards to BIOS Version, EC Versions, Hottab Versions, OS Versions, as well as Unit Serial Number, shown in the picture sample.

Battery Information:

This section provides user battery Information.

Main Battery:
The main battery Icon displays the battery level in percentages (0 to 100%).

Backup Battery: (Optional)
The backup battery used for battery hot swapping displays its state in text with the following meanings.

Status	Description
High	Backup battery is fully charged, and can be used for hot swapping
Medium	Backup battery level is intermediate, but can be used for hot swapping
Low	Backup battery level is low, and hot swapping is not recommended.

Battery Charge Time:
The Battery Information also displays estimated time needed to fully charge the main battery when AC adapter is plugged in. Meanwhile, the backup battery is charged by the main battery.

Using the physical function keys (Hotkeys)

The function key mapping menu option allows user to change the physical function buttons, F1 and F2. Users can change what application will be launched with short press or long press of keys.
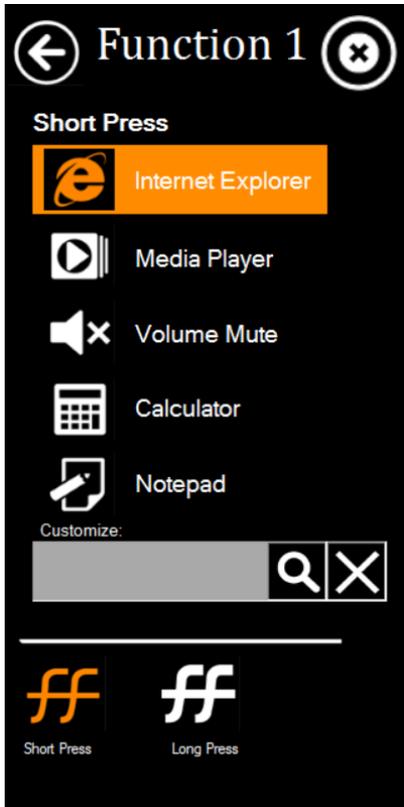
To configure function key mapping, perform the following:

1. Open the Hottab utility by press the 📄 (Menu) Button located on the front panel, or launching the Hottab Utility application.
2. Tap on the **Setting** button.
3. Tap on function key icon for the corresponding key that you want to change.
4. At top of utility, it will say "Short Press" or "Long Press" to indicate what type of press is being configured
5. You can switch what type of press you want to configure by tapping on the "Short Press" or "Long Press" icon at the bottom of the utility window.
6. Pick from list of preset applications by tapping on the application icons OR customize which application to execute using the picker.

Using the Custom picker:

1. Tap the 🔍 icon to reveal browser window
2. Navigate to the desired executable to map to function key
3. Tap on "Done" to save selection.

To map the function key to another application:

1. Tap on the ✖ icon to remove connection to the original application, and pick again tapping on 🔍 icon.

Using the physical function keys:

1. While operating the tablet, click on the physical function keys to activate functions mapped via the setup in this section.

Adjust the Brightness Level

The panel brightness can be adjusted from Hottab menu. To adjust the brightness, perform the following procedure:

1. Open the Hottab utility by press the ▤ (Menu) Button located on the front panel, or launching the Hottab Utility application.
2. Tap on the **Setting** button.
3. Tap on the **Brightness** icon:

How to disable automatic brightness adjustments

For computers with a light sensor, Windows 10 has the ability to automatically adjust the screen brightness depending on the ambient light levels.

This feature can be more annoying than helpful, either leaving your screen too dark or frequently adjusting the brightness levels.

Here's three ways to disable the Ambient light sensor

1: using the systems setting

Open the Windows start menu and click on 'Settings'
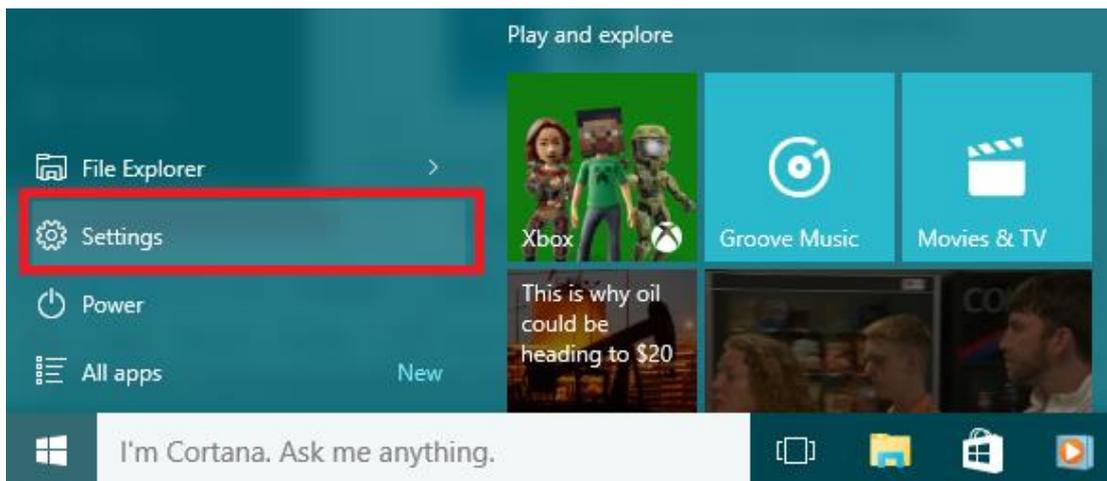
1. In the settings window, click on 'System'
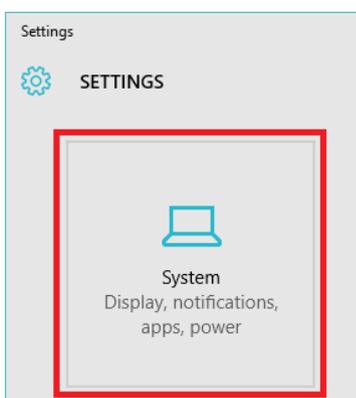
2. The 'Display' menu should selected on the left, if it is not – click on'Display'
3. Turn the 'Change brightness automatically when lighting changes' to 'Off'
4. Click 'Apply' to save the changes.

Lock rotation of this display

⬤ Off

Adjust brightness level

Change brightness automatically when lighting changes

On

Apply   Cancel

Adjust the Volume Level

The volume level can be adjusted from 📄 Hottab menu. To perform volume adjustment. The adjustment slide bar will appear on screen transparently. Tap on the right side of the bar to increase the volume and Tap on the left side of the bar to decrease the volume .Open the Hottab utility by press the (Menu) Button located on the front panel, or launching the Hottab Utility application.

1. Tap on the **Setting**button.

2. Tap on the **Volume** 🔊icon:

Chapter 5 Frequently Used Settings

1. Screen Resolution Scaling and Setting

The ALGIZ 8X's 800x 1280 high resolution display is perfect for viewing image, video, or other applications, however, Windows user interface (icons, buttons, and other user interface elements) may be too small to read and operate at the default Windows settings. By changing the display scaling or the display resolution setting of the device, you can adjust the size of the text and other items on the desktop for optimal viewing. Display scaling is the recommended method because it has the effect of adjusting user interface element without having to move away from the optimal resolution setting at 800 x 1280. This section will explain how you can adjust the built-in windows display scaling setting and resolution setting.

- We recommend the users set the scaling to this setting for optimal text and image viewing.
- Before proceeding to change the scaling option, make sure any opened document is saved and close, and all running applications are closed before proceeding to change the display scaling, because this procedure requires users to log out of their account to apply display scaling change.

Changing display scaling setting (Recommended)

Perform the following to change display scaling setting:

1. Tap and hold anywhere on the desktop for 3 seconds or tap the **Intel HD Graphic Control Panel**shortcut to bring up the context menu, and select "Display" option as shown below:
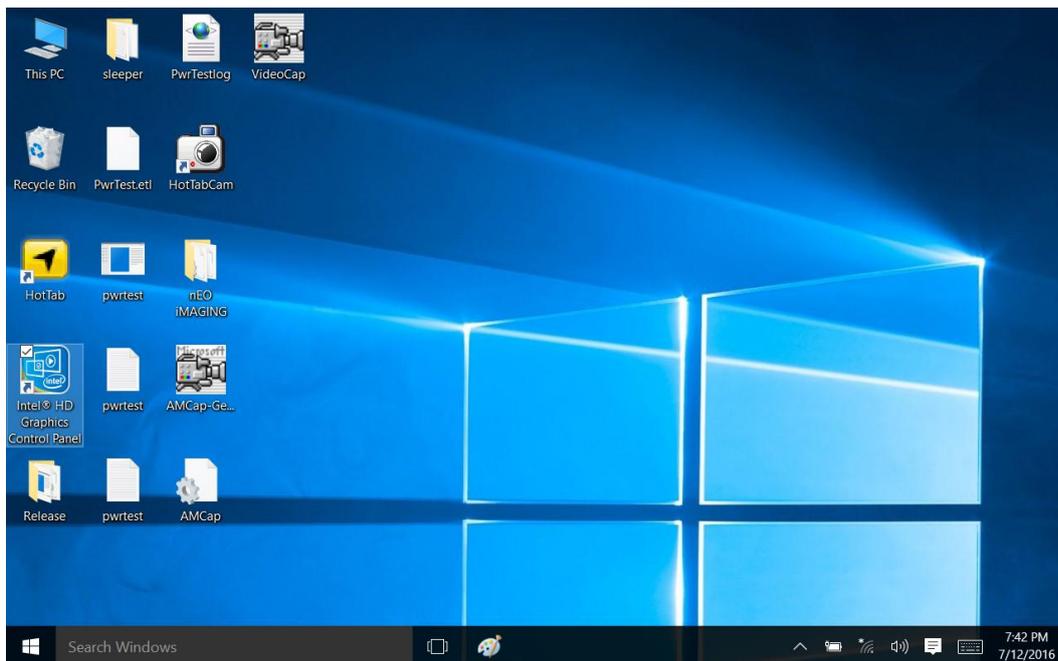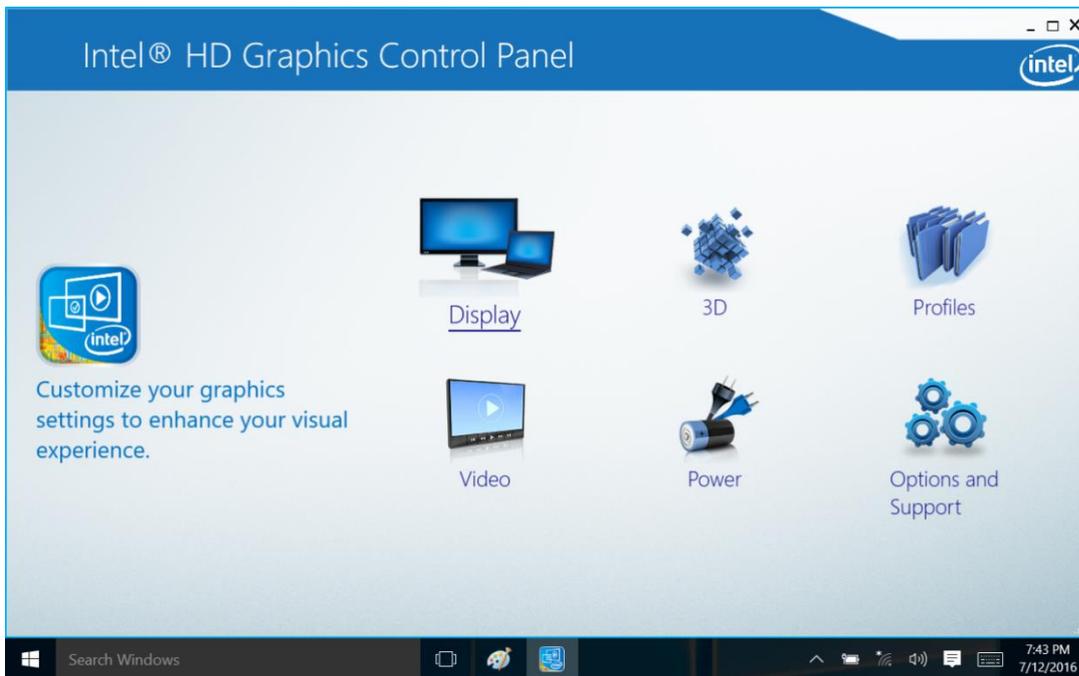
2. Click on the dropdown option next to "Resolution" and select the desire resolution by tapping on the scale:
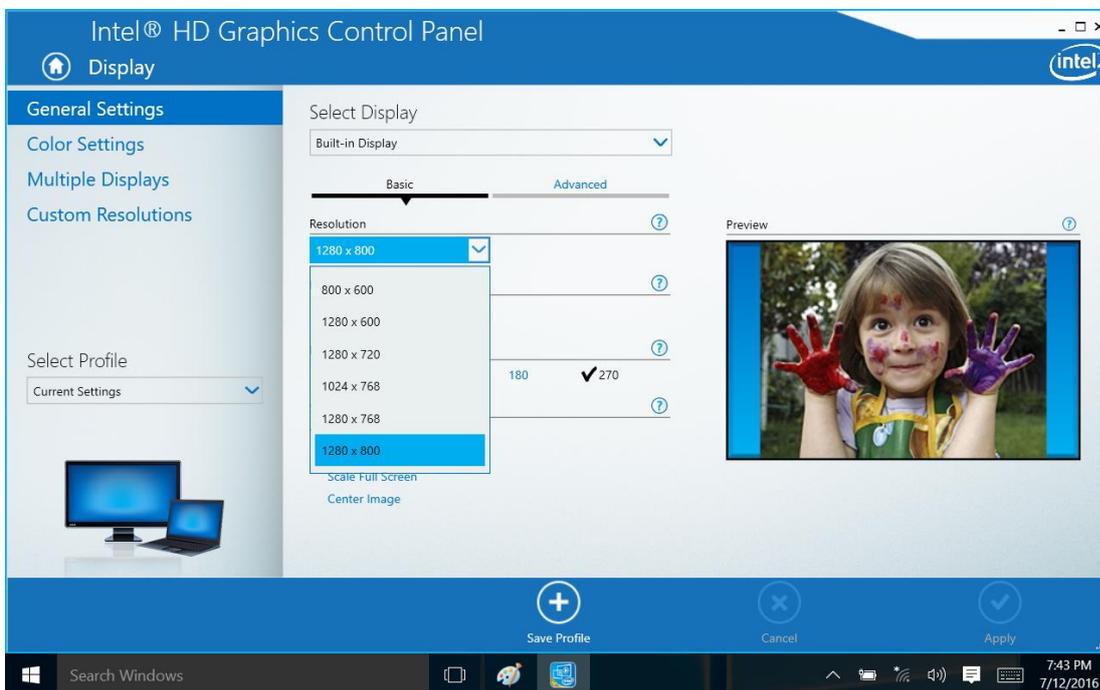
3. Hit "**Apply**". A prompt "**Display Settings**" prompt will show up to ask the user if the applied resolution is usable.

4. If the new resolution is the desired display setting hit "**Keep changes**" and continue to next step. If the new resolution is not desirable, hit "**Revert**" and select a different resolution to change to, and start again from step 2.

5. The user may now use the device with the new resolution setting.

2. Replacing Hot Swappable Battery

The tablet computer supports hot-swapping of batteries, meaning the tablet doesn't need to be powered off in order to replace the mainbattery. To support such mechanism, there is a backup battery inside the tablet that is charged up with the main battery. This backup battery cannot be removed, and needs to have adequate power for hot swapping of main battery to be done without issue. When the backup battery is fully charged, it can sustain up to 5 minutes of runtime to allow for battery hot-swapping.

Perform the following to hot swap the batteries:

1. While the tablet is powered on, go to Hottab utility to check on the power level of the Backup battery.
2. If the Backup battery level is at "Low", please charge the tablet with AC Power until the Backup battery level is at "Medium" or "High", and do not remove the main battery.
3. If the Backup battery level is at "Medium" or "High", continue to remove the main battery.
4. Insert a new charged up removable battery into the battery compartment.
5. Go to Hottab utility to check if Main battery level can be correctly read. If not, check if the new removable battery is inserted properly.
6. If Main battery level can be read, continue to use the tablet computer.

⚠ Caution	**To keep battery health and prevent possible issues from battery over-discharged, please charge the tablet built-in back-up battery once for every 2 months.**

3. Using Recovery Wizard to Restore Computer

ALGIZ 8X tablet computer has a dedicate recovery partition stored on the hard drive of the tablet to enable quick one-key recovery process. This partition occupies about 11GB of the storage space, and comes built-in to each ALGIZ 8X tablet computer.

Warning: Before starting the recovery process, be sure to backup all user data, as all data will be lost after the recovery process.

Follow the procedure below to enable quick one-key recovery procedure:

1. Plug-in the AC adapter to ALGIZ 8X tablet computer. Make sure the ALGIZ 8X tablet computer stays plugged in to power source during the recovery process.

2. Power on the tablet computer, and when the boot screen shows up, press the **F1** button (Recovery Key) on the front bezel or press **F6**when using an external USB keyboard to initiate the Recovery Wizard.

3. The following screen shows the Recovery Wizard. Click on "Recovery" button to continue.

4. A warning message about data loss will show up. Make sure data is backed up before recovery, and click on "Yes" to continue.

5. Wait till the recovery process to complete. During the recovery process, a command prompt will show up to indicate the percent of recovery process.After recovery is completed, and the tablet computer will restart automatically.
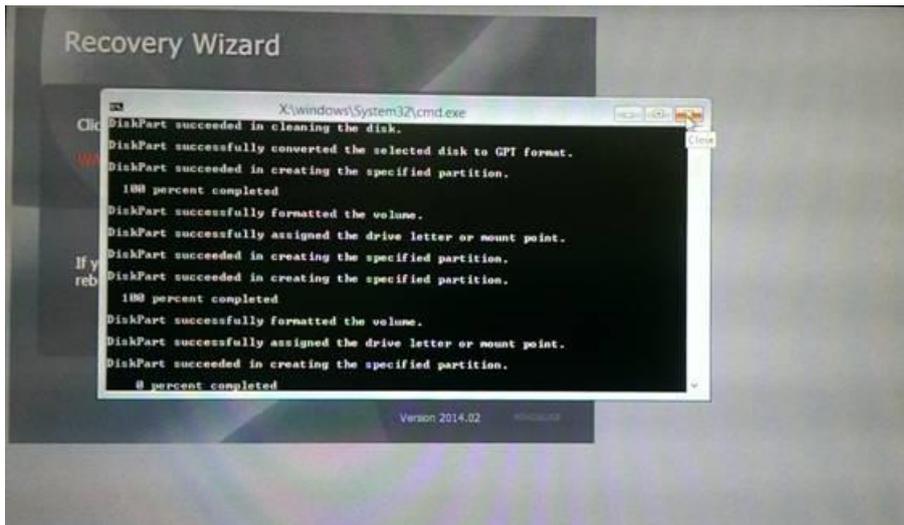
4. Docking Connector Pin Definition

ALGIZ 8X tablet computer supports one 20-pin docking connector at the bottom side. The pin definition is listed as the following table.
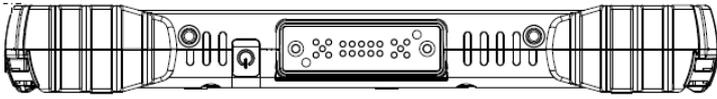
20 Pin Docking Connector			
Pin No.	**Description**	**Pin No.**	**Description**
1	DOCK1_USB_P	**11**	GND
2	DOCK_DET#	**12**	GND
3	DOCK1_USB_M	**13**	N/A
4	DOCK_USB_P	**14**	GND
5	GND	**15**	N/A
6	DOCK_USB_N	**16**	N/A
7	DOCK_PWR	**17**	N/A
8	GND	**18**	N/A
9	DOCK_PWR	**19**	DETECT-
10	DOCK_PWR		GND

5. Expansion Port Pin Definition

ALGIZ 8X tablet computer supports one optional 19-pin expansion port at the rear side. The pin definition is listed as the following table
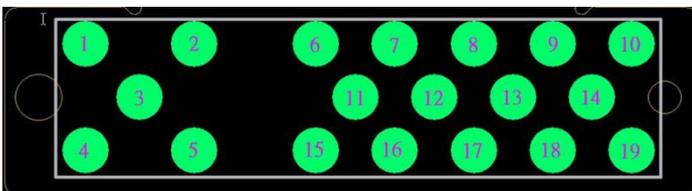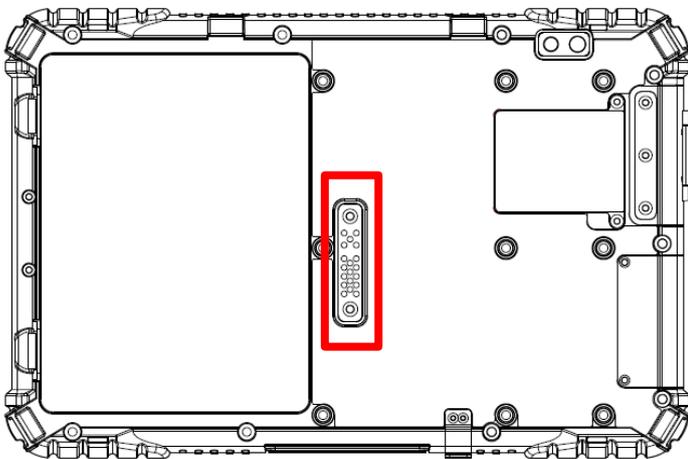
19 Pin Expansion Port			
Pin No.	**Description**	**Pin No.**	**Description**
1	POGO_PWR	**11**	GND
2	USB3V_POGO	**12**	USB_D4-
3	POGO_PWR	**13**	USB_D4+
4	POGO_PWR	**14**	GND
5	USB5V_POGO	**15**	FK_CTS2
6	DET	**16**	DETECT_POGO
7	FK_SOUT2	**17**	GND
8	GND	**18**	FK_RTS2
9	FK_SIN2	**19**	DET
10	GND		

6. COM Port Definition

ALGIZ 8X tablet computer uses Hottab utility for built-in peripherals control. All the COM port numbers have been defined in the OS image coming with the package.

COM Port	Device
COM 1	RS232 at I/O
COM 2	RS232 of Expansion Port (optional)
COM 3	GPS
COM 11	RS232 at Docking (optional)
COM 12	RS232 at Docking (optional)
COM 15	Barcode Reader (optional)

For some special applications, user might re-install OS and lose the COM port settings. To make sure the features works properly with Hottab utility, please follow the procedure below to re-define the COM port numbers:

1. Go to "Device Manager", right click on the COM number need to be changed, and tap on"Properties" to open the setting page.
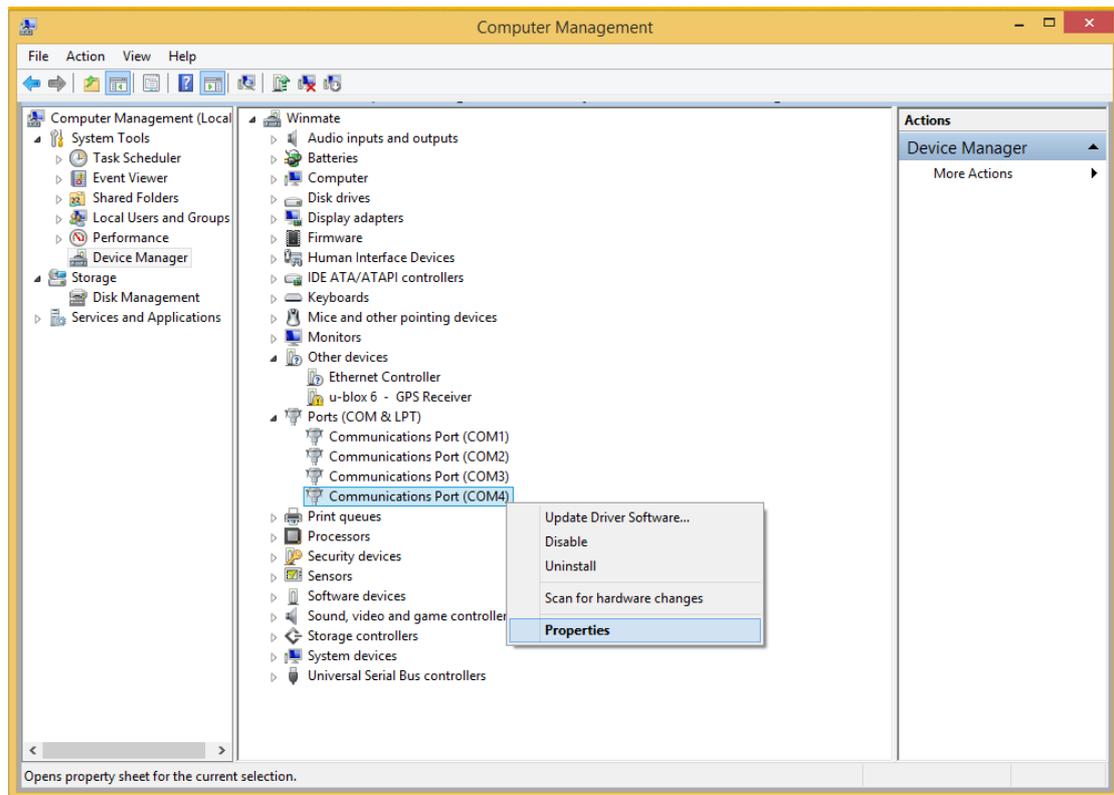
2. Tap on "**Port Setting**" tab and click on "**Advanced**" button.
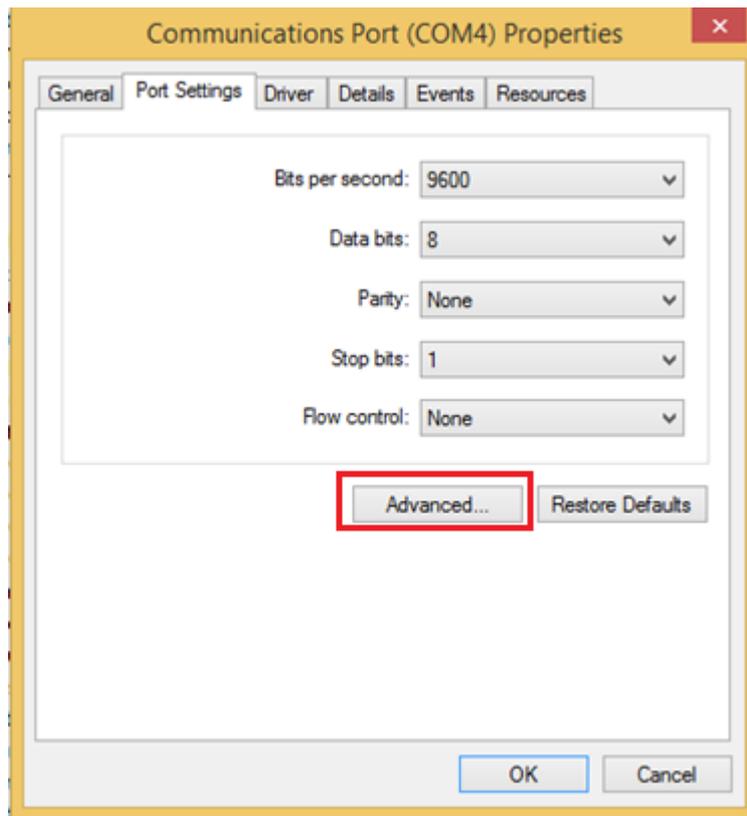
3. Tap on the dropdown list and choose the correct COM Port Number (refer to the COM Port Definition Table), and click "**OK**".
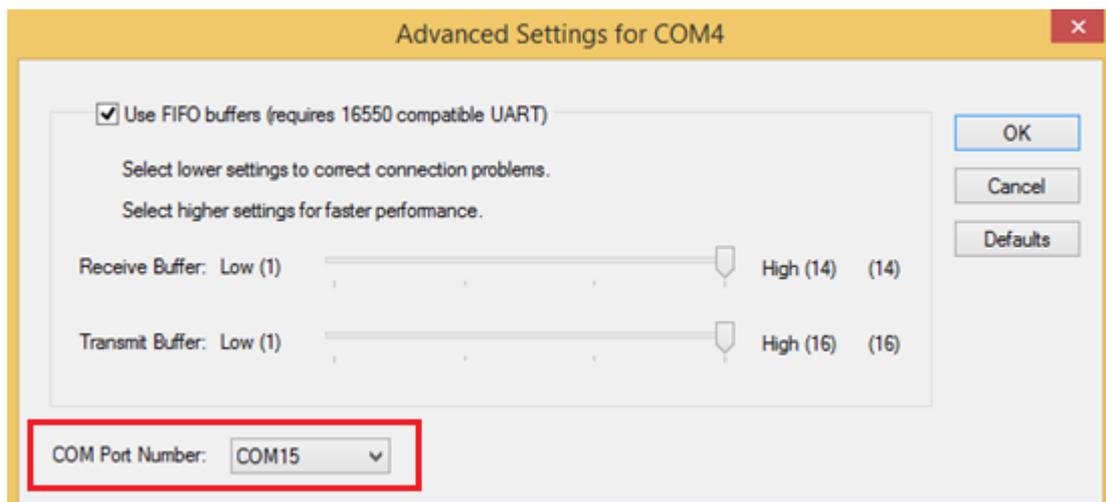
4. Double check "Device Manager" to make sure the COM Port number has been re-defined successfully, and then restart the system.

7. Accessories

ALGIZ 8X offers the following optional accessories that can be purchased:

Gigabit Ethernet Adapter • For LAN from changeable I/O port • Connector: RJ45, female • Gigabit LAN, 10/100/1000 Mbps	**RS232 Ethernet Adapter** • For RS232 from changeable I/O port • Connector: DB9 Serial RS232 Cable, female
High Capacity Battery • Capacity: 7.6V 10400mAh (2S4P) • Li-Ion Battery	**Hand Strap** • Ergonomic hand-strap can help you handle the Rugged Tablet PC much more easily and comfortably.
Active Stylus	**Passive Stylus**
Screen Protector	**Vehicle Docking** • VESA Mounting support • USB 2.0 x2 • LAN (10/100) x1 • RS232 x2 • HDMI x1 • 9-36V DC IN with 3-pin terminal block • 9-36V DC IN with water proof connector • 19V DC IN 2.5mm power Jack

Chapter 6
Troubleshooting

Troubleshooting (Basic)

Problem	Solution
The removable battery is not charging.	• Make sure the AC adapter is properly connected, and that the removable battery is properly inserted.
Nothing appears on the screen.	• The tablet computer may be in sleep mode. Press the power button to wake up the display. • The brightness level may be too low. Increase brightness.
The screen suddenly turns blank and the power indicator goes off.	• Make sure that LED indicator is not powered off in Hottab. • Make sure the AC adapter is properly connected. • If running on battery power, the battery may be depleted, charge the battery.
Wireless LAN signal quality is poor.	• The tablet computer may be out of range. Move the tablet computer closer to the access point or another wireless LAN device associated with it. • Check if your surroundings have interferences, such as microwave ovens, cordless phones. Move the tablet computer away from objects causing interference.
I cannot connect to another wireless LAN device.	• Make sure that wireless LAN feature is powered on. • Make sure that the SSID setting is the same for every wireless LAN device in the network. • Restart the tablet computer • Make sure the IP address or subnet mask setting is correct.
I cannot connect to another device with Bluetooth.	• Make sure that both devices have Bluetooth powered on (For the Tablet Computer, check Hottab to see if Bluetooth is powered on). • Make sure that the distance between the two devices is within 10 meters and there are no walls or large obstructions between the devices. • Make sure the both devices are powered on and configured to be discoverable. • Make sure that both devices are compatible.

The GPS application cannot find my location.	• Make sure that GPS is powered on in Hottab. • Make sure that GPS receiver and the location sensor are enabled in Control Panel. • The tablet computer may be out of coverage area. Move your tablet computer outdoors or closer to a window. • Check if your surroundings have interferences, such as microwave ovens, cordless phones. Move the tablet computer away from objects causing interference.
No sound is produced.	• Adjust volume of the tablet computer by pressing on the volume rocker. • If using an external audio device, make sure that the cable is properly connected.
I cannot project the tablet computer display to another monitor.	• Make sure the VGA driver is installed. • Make sure the output setting selected is correct.
Barcode scanner does not emit laser beam and does not seem to work.	• Make sure the Barcode scanner device is enabled in Hottab utility. • Make sure under Windows, the Barcode Reader is set to COM 15 port, so that Hottab can trigger the Barcode Reader hardware.
Barcode Scanner emits laser beam but does not read barcode presented to it.	• Adjust the distance between barcode scanner of the device and the barcode being scanned. • Make sure the barcode code type is enabled in the tablet. To enable/disable a specific barcode code type, go through the "Barcode Scanner Configuration" section.
I am having GPS accuracy issue	• When utilizing the GPS function, we recommend disabling the Barcode Reader in Hottab to reduce interference.

FCC Statement

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

   NOTE: 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 or more 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

   The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types Portable Tablet Computer has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification   when properly worn on the body is 1.423W/kg. This device was tested for typical body-worn operations with the back of the handset kept 0cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0cm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

IC Statement

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 harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 fonctionnement.