USER MANUAL

SC575

LEADER COMPUTERS

About this Concise User Guide

This quick guide is a brief introduction to getting your system started. This is a supplement, and not a substitute for the expanded English language *User's Manual* in *Adobe Acrobat* format on the *Device Drivers & Utilities + User's Manual* disc supplied with your computer. This disc also contains the drivers and utilities necessary for the proper operation of the computer (**Note**: The company reserves the right to revise this publication or to change its contents without notice).

Some or all of the computer's features may already have been setup. If they aren't, or you are planning to re-configure (or re-install) portions of the system, refer to the expanded *User's Manual*. The *Device Drivers & Utilities + User's Manual* disc does not contain an operating system.

Regulatory and Safety Information

Please pay careful attention to the full regulatory notices and safety information contained in the expanded *User's Manual* on the *Device Drivers & Utilities + User's Manual* disc.

Trademarks

Intel is a trademark/registered trademark of Intel Corporation.
Windows is a registered trademark of Microsoft Corporation.

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

FCC Statement

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.

English

English

Instructions for Care and Operation

The computer is quite rugged, but it can be damaged. To prevent this, follow these suggestions:

- **Don't drop it, or expose it to shock**. If the computer falls, the case and the components could be damaged.
- **Keep it dry, and don't overheat it**. Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.
- **Avoid interference**. Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
- **Follow the proper working procedures for the computer**. Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost.

Servicing

Do not attempt to service the computer yourself. Doing so may violate your warranty and expose you and the computer to electric shock. Refer all servicing to authorized service personnel. Unplug the computer from the power supply. Then refer servicing to qualified service personnel under any of the following conditions:

- When the power cord or AC/DC adapter is damaged or frayed.
- If the computer has been exposed to any liquids.
- If the computer does not work normally when you follow the operating instructions.
- If the computer has been dropped or damaged (do not touch the poisonous liquid if the panel breaks).
- If there is an unusual odor, heat or smoke coming from your computer.

Safety Information

- Only use an AC/DC adapter approved for use with this computer.
- Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
- Do not continue to use a battery that has been dropped, or that appears damaged (e.g. bent or twisted) in any way. Even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire.
- Make sure that your computer is completely powered off before putting it into a travel bag (or any such container).
- Before cleaning the computer, make sure it is disconnected from any external power supplies, peripherals and cables.
- Use a soft clean cloth to clean the computer, but do not apply cleaner directly to the computer. Do not use volatile (petroleum distillates) or abrasive cleaners on any part of the computer.
- Do not try to repair a battery pack. Refer any battery pack repair or replacement to your service representative or qualified service personnel.
- Note that in computer's featuring a raised electro-plated logo, the logo is covered by a protective adhesive. Due to general wear and tear, this adhesive may deteriorate over time and the exposed logo may develop sharp edges. Be careful when handling the computer in this case, and avoid touching the raised electro-plated logo. Avoid placing any other items in the carrying bag which may rub against the top of the computer during transport. If any such wear and tear develops contact your service center.

Polymer/Lithium-Ion Battery Precautions

Note the following information which is specific to Polymer/Lithium-Ion batteries only, and where applicable, this overrides the general battery precaution information.

- Polymer/Lithium-Ion batteries may experience a slight expansion or swelling, however this is part of the battery's safety mechanism and is not a cause for concern.
- Use proper handling procedures when using Polymer/Lithium-Ion batteries. Do not use Polymer/Lithium-Ion batteries in high ambient temperature environments, and do not store unused batteries for extended periods.
- If you are working in areas of low temperature use the AC/DC adapter to power the computer.

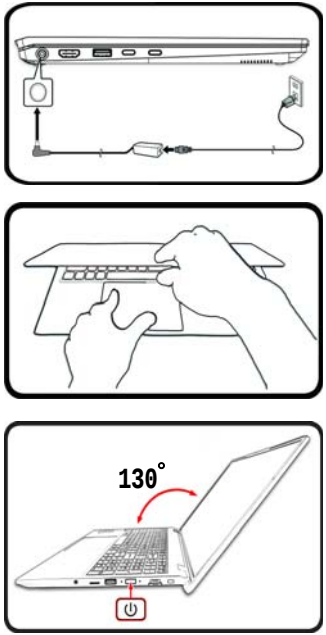
Battery Disposal & Caution

The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

System Startup

1. Remove all packing materials.
2. Place the computer on a stable surface.
3. Securely attach any peripherals you want to use with the computer (e.g. keyboard and mouse) to their ports.
4. **When first setting up the computer use the following procedure** (as to safeguard the computer during shipping, the battery will be locked to not power the system until first connected to the AC/DC adapter and initially set up as below):
   - Attach the AC/DC adapter cord to the DC-In jack on the left of the computer, then plug the AC power cord into an outlet, and connect the AC power cord to the AC/DC adapter. The battery will now be unlocked.
5. Use one hand to raise the lid to a comfortable viewing angle (do not exceed 130 degrees); use the other hand (as illustrated in ***Figure 1***) to support the base of the computer (**Note: Never** lift the computer by the lid).
6. Press the power button on the right side of the computer to turn it on (note that the lid must be open for the power button to function).



Shut Down

Note that you should always shut your computer down by choosing the **Shut down** command in ***Windows*** (see below). This will help prevent hard disk or system problems.

1. Click the Start Menu icon .
2. Click the **Power** item .
3. Choose **Shut down** from the menu.

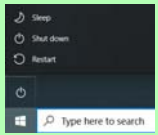


Figure 1 **- Opening the Lid/Computer with AC/DC Adapter Plugged-In**

System Software

Your computer may already come with system software pre-installed. Where this is not the case, or where you are re-configuring your computer for a different system, you will find this manual refers to ***Microsoft Windows 10***.

Intel® Optane™ Support

You need to setup **Intel® Optane™** before installing your ***Windows 10*** operating system (see ***Intel® Optane™ Setup on page 5***).

Intel® Optane™ Setup

Intel® Optane™ is a combination of a compatible memory device and **Intel Rapid Storage Technology software**. This combination is designed to speed up your system performance by caching boot data, executables, frequently accessed data and system page files to a non volatile, low latency Intel® Optane™ SSD.

Contact your distributor or supplier to see if your system supports this technology.

Intel® Optane™ Setup Procedure

You need to setup **Intel® Optane™** before installing your ***Windows 10*** operating system, and you will need to prepare the following in order to do so.

- The ***Microsoft Windows 10 OS*** on a DVD or USB flash drive
- An Intel® Optane™ SSD installed in your system.
- The ***Device Drivers & Utilities + User's Manual*** disc.

1. Start-up your notebook computer and press **F2** to enter the **BIOS** and go to the **Setup Utility**.
2. Select the **Advanced** menu.
3. Select **SATA Mode**, press Enter and select **Intel RST Premium...** and select <OK>.
4. Press **F10** to "**Save and Exit**" and select <Yes>, however note below.
   - Make sure the ***Windows 10*** OS (DVD) is in the attached DVD drive or on a USB flash drive and as the computer starts up it will automatically boot from the ***Windows 10*** OS DVD or USB flash drive.
5. Click **Next > Install Now** to continue installing the operating system as normal (see your ***Windows*** documentation if you need help on installing the ***Windows*** OS).
6. Select **Custom: Install Windows only (advanced)**.
7. It is recommended that you select and then delete existing partitions.
8. Click **New** to create a partition for *Windows*.
9. It is very important to make sure that when you create the partition, leave at least a minimum of unallocated space of **5MB**. This space is required for any drive that is being accelerated (System or Data Drive).

English

10. Follow the on-screen instructions to install the *Windows 10* operating system.
11. Install the *Windows* drivers (see ***page 20***). Make sure you install the **Intel® Rapid Storage Technology (IRST)** driver.
12. Run the **Intel® Optane™ Memory and Storage Management** application.
13. Click **Enable Intel® Optane™ Memory**.

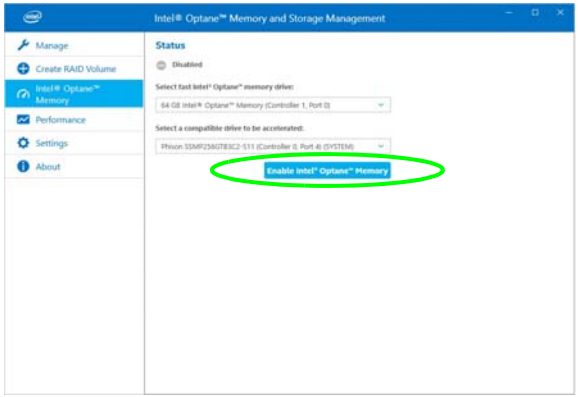


Figure 2 **- Intel® Optane™ Memory and Storage Management - Enable Intel® Optane™ Memory**

14. A warning will pop up to notify you that all data on the Optane Memory Module will be erased, and if this is OK then click **Enable**.
15. The system will prepare and enable the Optane drive, and when finished you can then click **Restart**.
16. The system will then optimize the Optane Memory upon restart.
17. Run the **Intel® Optane™ Memory and Storage Management** application.
18. The system status will then be displayed.

Disabling Intel® Optane™

If you wish to disable an existing **Intel® Optane™** setup then follow the procedure below to do so.

1. Run the **Intel® Optane™ Memory and Storage Management** application.
2. Click **Intel® Optane™ Memory** and then click **Disable**.
3. Click **Disable** when you see the following message.

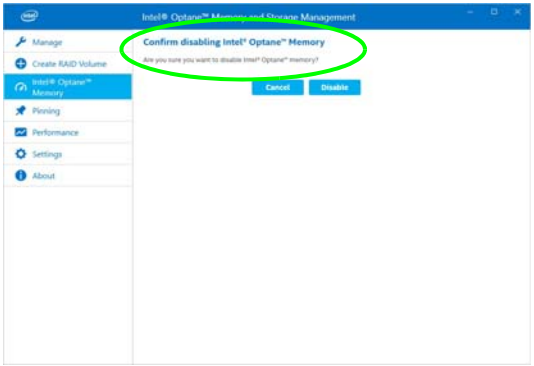
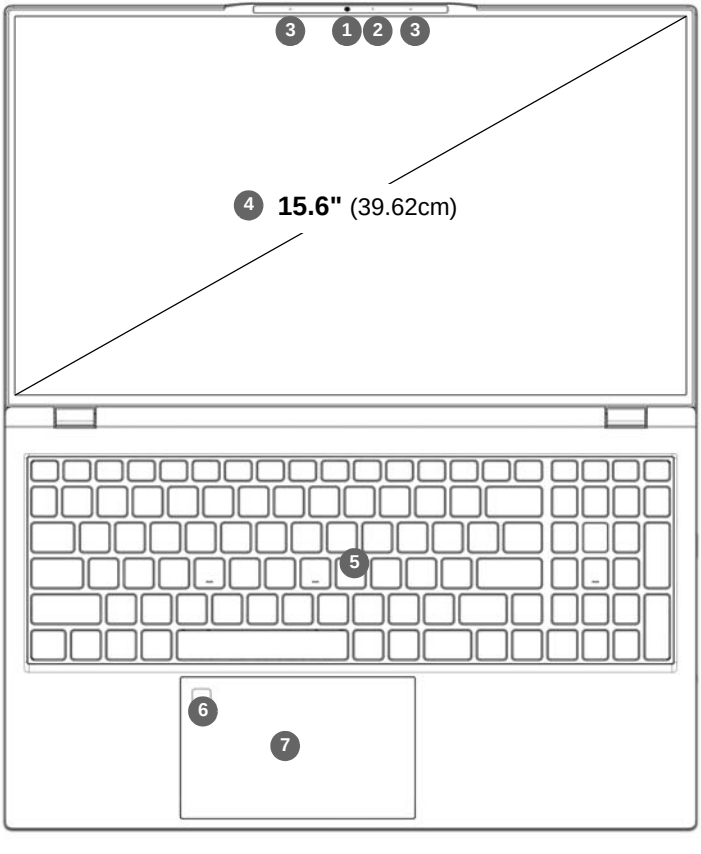


Figure 3 **- Intel® Optane™ Memory and Storage Management - Disable**

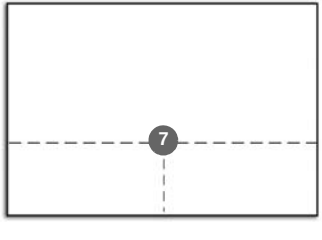
4. Restart the computer to complete the process.
5. Run the **Intel® Optane™ Memory and Storage Management** application.
6. The **Intel® Optane™ Memory Status** is indicated in the Window.

System Map: Front View with Display Open

Figure 4
Front View with Display Open



1. PC Camera
   Or
   (**Factory Option**) Windows Hello Camera
2. *Camera LED
   **When the camera is in use, the LED will be illuminated.*
3. Built-In Array Microphone
4. Display
5. Keyboard
6. (**Factory Option**) Fingerprint Sensor
7. Touchpad & Buttons



Note that the Touchpad and Buttons valid operational area is that indicated within the dotted lines above.

English

LED Indicators

The LED indicators on the computer display helpful information about the current status of the computer.

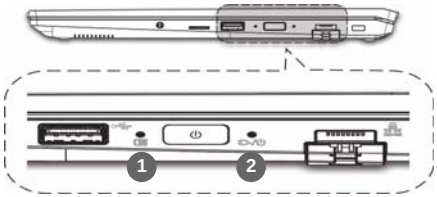
Icon	Color	Description
		
1	Orange	The Battery is Charging
	Green	The Battery is Fully Charged
	Blinking Orange	The Battery Has Reached Critically Low Power Status
2	Orange	The AC/DC Adapter is Plugged In
	Green	The Computer is On
	Blinking Green	The Computer is in **Sleep** Mode

Table 1 **- LED Indicators**

Keyboard

The keyboard has a numeric keypad for easy numeric data input. Pressing **Num Lk** turns on/off the numeric keypad. It also features function keys to allow you to change operational features instantly.

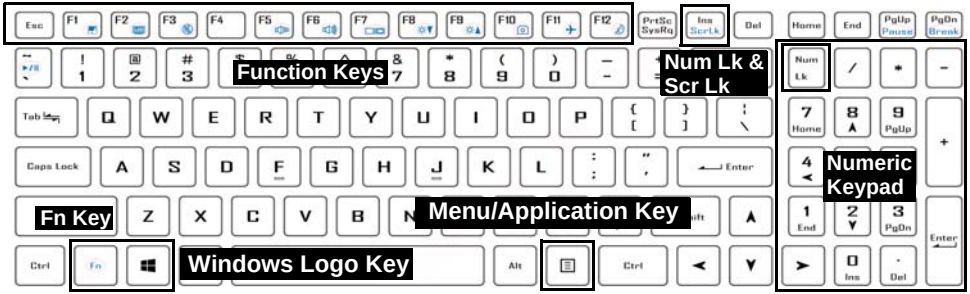


Figure 5 **- Full-size Keyboard**

(Factory Option) Multi-Color LED Keyboard

Refer to ***Multi-Color LED Keyboard (Option) on page 15***.

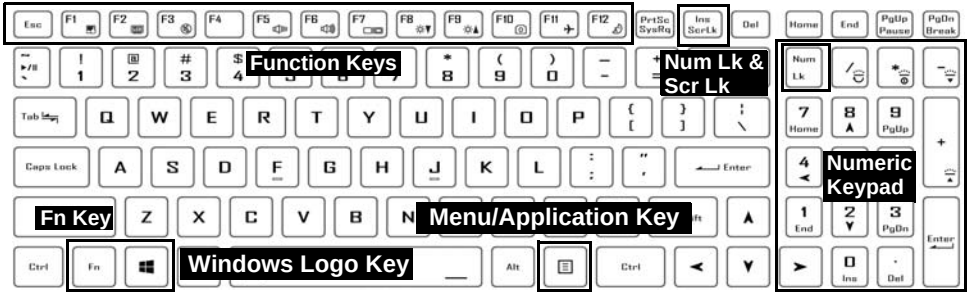


Figure 6 **- (Factory Option) Full-size Multi-Color LED Keyboard**

Function Keys & Visual Indicators

The function keys (**F1 - F12** etc.) will act as hot keys when pressed while the **Fn** key is held down. In addition to the basic function key combinations, some visual indicators are available when the Control Center driver is installed.

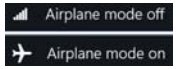
Keys	Function/Visual Indicators		Keys	Function/Visual Indicators	
Fn + ▶/II	Play/Pause (in Audio/Video Programs)		Fn + F11 ✈	Airplane Mode Toggle	
Fn + F1	Touchpad Toggle		Fn + F12	Sleep Toggle	
Fn + F2	Turn Display Backlight Off (Press a key to or use Touchpad to turn on)		Num Lk	Number Lock Toggle	
Fn + F3	Mute Toggle		Fn + Ins ScrLk	Scroll Lock Toggle	
Fn + F5 F6	Volume Decrease/ Increase		Caps Lock	Caps Lock Toggle	
Fn + F7	Change Display Configuration (see ***page 17***)		Fn + Esc	Control Center Toggle (see ***page 13***)	
Fn + F8 F9	Display Brightness Decrease/Increase		Fn + ! 1	Fan Automatic Control/ Full Power	
Fn + F10	Camera Power Toggle		Fn + # 3	Power Modes Toggle	

Table 2 **- Function Keys & Visual Indicators**

System Map: Front, Left & Right Views

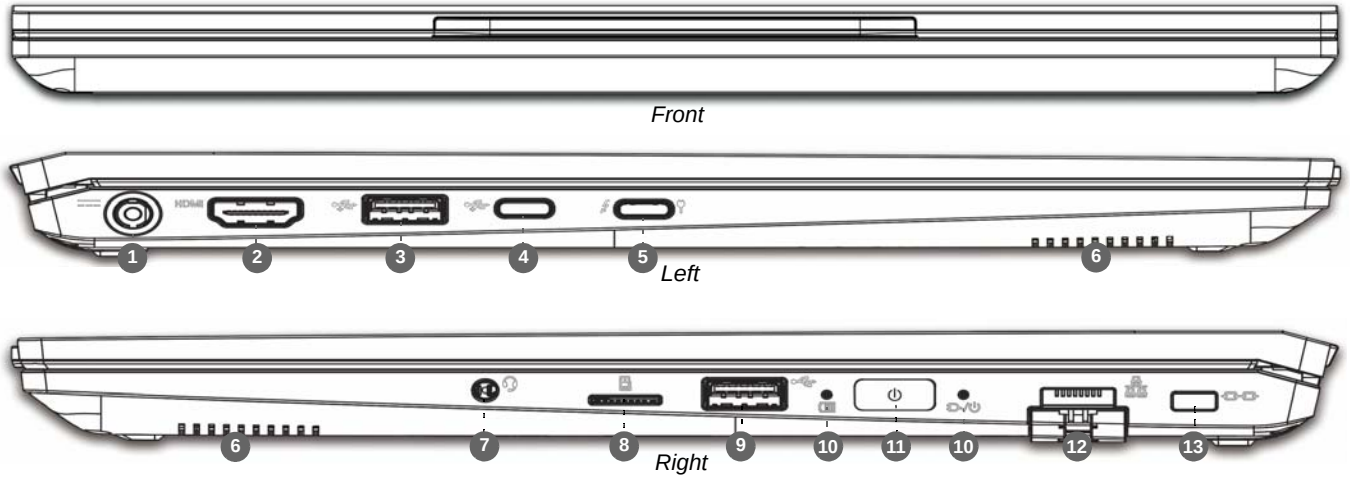


Figure 7 **- Front, Left & Right Views**

1. DC-In Jack
2. HDMI-Out Port
3. USB 3.2 Gen 2 Type-A Port
4. USB 3.2 Gen 2 Type-C Port
5. Thunderbolt 4 Port with Power Delivery (DC-In)*
   *This port allows you to use a third party AC/DC adapter/power bank plugged into the port as a power supply. If you are using a power bank make sure that it complies with the USB-C PD (Power Delivery) standard specification (20V/65W - 20V/100W). If you are using a third party AC/DC adapter, the rating of the adapter must be at least 20Volts, 3.25A (65 Watts) and it should be appropriately certified.
6. Speakers
7. 2-In-1 Audio Jack (Headphone / Microphone)
8. MicroSD Card Reader
9. USB 2.0 Port
10. LED Indicators
11. Power Button
12. RJ-45 LAN Jack
13. Security Lock Slot

System Map: Bottom & Rear Views

English

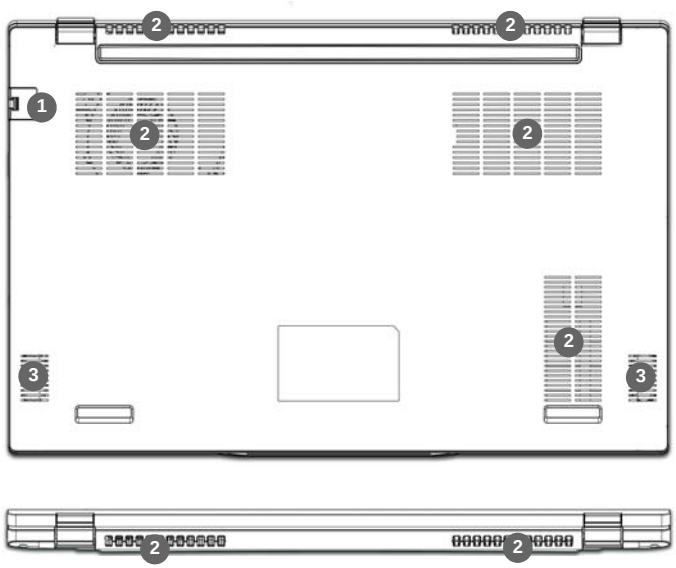


Figure 8
Bottom & Rear Views

1. RJ-45 LAN Jack
2. Vent
3. Speakers

Bottom Cover Removal Warning

Do not remove any cover(s) and/or screw(s) for the purposes of device upgrade as this may violate the terms of your warranty. If you need to replace/remove the SSD/RAM etc., for any reason, please contact your distributor/supplier for further information.

Overheating

To prevent your computer from overheating make sure nothing blocks any vent while the computer is in use.

Control Center

Run the **Control Center** from the Start menu in ***Windows*** 

. You can also press the **Fn + Esc** key combination, or **double-click the icon**  in the **notification area of the taskbar** to access the **Control Center**. The **Control Center** provides quick access to **Power Modes**, **Fan settings** and **LED Keyboard** configuration (***for the optional LED keyboard***).

Figure 9 **- Control Center**

Note the **LED Keyboard** item will only appear for LED keyboards only.

Power Modes

Power Modes allows you to adjust the power mode by clicking the appropriate icon.

Figure 10 **- Power Modes**

- **Power Saving mode** saves battery life.
- **Quiet mode** focuses on reducing fan noise and will decrease both CPU and GPU power.
- **Entertainment mode** balances CPU and GPU power and is ideal for watching videos etc.
- **Performance mode** is ideal for gaming with higher CPU and GPU performance.

Note: You can use the **Fn + 3** key combination to quickly toggle through, and select, the Power Modes.

Fan Speed Control

Figure 11 **- Fan Speed Control**

You can set the fan speed to **Maximum** (full power) or **Automatic**/**Slient**. The fan speed will adjust itself automatically to control the heat of the CPU/GPU. You can use the **Offset** slider to adjust the settings to your preference. However you can adjust the setting to **Maximum** if you prefer.

All these settings can be overidden by the system, as a safety precaution, if it requires heavier use of the fan.

Multi-Color LED Keyboard (Option)

The **LED Keyboard** application can be accessed by clicking **LED Keyboard** in the **Control Center** (or by pressing the **Fn** plus key) or from the Start menu in ***Windows*** Led Keyboard Setting.

Figure 12 **- LED Keyboard Application**

The keyboard LED may be configured using the **Fn + key combination** outlined in the table below.

Keyboard LED Function key Combinations	
Fn +	Launch the LED Keyboard Application
Fn +	Toggle the Keyboard LED On/Off
Fn +	Keyboard LED Illumination Decrease
Fn +	Keyboard LED Illumination Increase

Table 3 **- Keyboard LEDs**

Color Swatch

The color swatch in the middle of the screen allows you to select a range of colors for your keyboard backlight by clicking on the color required. Click to select any color from the swatch to apply to the keyboard.

KB Sleep Timer

Enable and then select the amount of time for which the system is idle before the keyboard LED enters sleep mode (i.e. the LED keyboard illumination will turn off to save power).

KB Brightness

You can adjust the keyboard brightness using the **Brightness** slider.

Windows 10 Start Menu, Context Menu, Taskbar, Control Panel and Settings

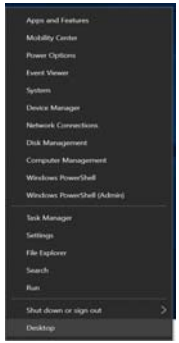
Most of the apps, control panels, utilities and programs within *Windows 10* can be accessed from the Start Menu by clicking the icon in the taskbar in the lower left corner of the screen (or by pressing the **Windows Logo Key** on the keyboard).

Right-click the Start Menu icon (or use the **Windows Logo Key** + **X** key combination) to bring up an advanced Context Menu of useful features such as Apps and Features, Power Options, Task Manager, Search, File Explorer, Device Manager and Network Connections etc.

The notification area of the taskbar is in the bottom right of the screen. Some of the control panels and applications referred to throughout the course of this manual can be accessed from here.

Throughout this manual you will see an instruction to open the Control Panel. To access the Control Panel, select Control Panel under the **Windows System** item in the Start Menu.

The **Settings** item in the Start Menu (and also as an App) gives you quick access to a number of system settings control panels allowing you to adjust settings for System, Devices, Phone, Network & Internet, Personalization, Apps, Accounts, Time & Language, Gaming, Ease of Access, Search, Cortana, Privacy and Update & Security.



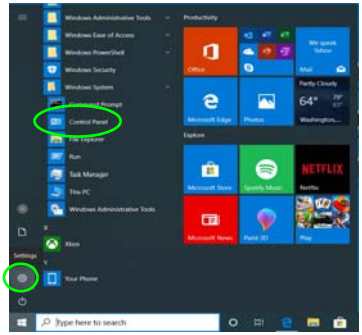


Figure 13
Start Menu, Context Menu, Taskbar, Control Panel and Settings

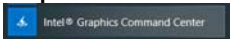
Video Features

The system features an **Intel** integ**rated GPU**. You can switch display devices, and configure display options, from the **Display** control panel in ***Windows*** as long as the video driver is installed.

To access the Display control panel in Windows:

1. Right-click the desktop and select **Display settings** from the menu.
2. Choose the required display settings from the menus.

To access the Intel® Graphics Command Center:

1. Access the **Intel® Graphics Command Center** from the Start menu in *Windows* 

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Display Devices

Note that you can use external displays connected to the HDMI-Out port and/or Thunderbolt 4 port. See your display device manual to see which formats are supported.

In *Windows* it is possible to quickly configure external displays from the **Project** menu (press the **Windows Logo Key** and the **P** key or press the **Fn + F7** key combination).

To configure the displays using the Project menu:

1. Attach your external display device to the appropriate port, and then turn it on.
2. Press the + **P** (or **Fn + F7**) key combination.
3. Click on any one of the options from the menu to select **PC screen only**, **Duplicate**, **Extend** or **Second screen only**.
4. You can also click **Connect to a wireless display** at the bottom of the **Project** screen and follow the steps to connect to any wireless enabled display.

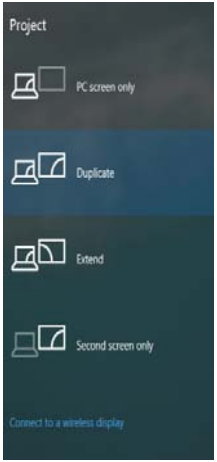


Figure 14
Project

To configure the displays using the Display control panel:

1. Attach your external display(s) to the appropriate port, and turn it (them) on.
2. Right-click the desktop and select **Display settings** from the menu.
3. Click the **Detect** button.
4. The computer will then detect any attached displays.
5. You can configure up to 3 displays from the **Multiple displays** menu.

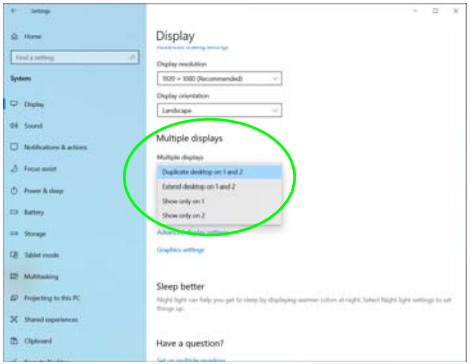


Figure 15 **Display (Multiple displays)**

Audio Features

You can configure the audio options on your computer from the **Sound** control panel in ***Windows***.

The volume may be adjusted by means of the **Fn + F5/F6** key combination.

Volume Adjustment

The sound volume level can also be set using the volume control within ***Windows***. Click the **Speaker** icon in the taskbar to check the setting.

Power Options

The **Power Options** (**Hardware and Sound** menu) control panel icon in ***Windows*** allows you to configure power management features for your computer. You can conserve power by means of **power plans** and configure the options for the **power button**, **sleep button (Fn + F12)**, **computer lid (when closed)**, **display** and **sleep** mode (the default power saving state) from the left menu.

Click **Create a power plan** in the left menu and select the options to create a new plan. Click **Change Plan Settings** and click **Change advanced power settings** to access further configuration options.

Figure 16 **- Power Options**

Sleep (Modern Standby)

This system supports **Sleep mode as Modern Standby**. In this case the system will continue to download mail, Windows updates, calendar updates and even VoIP calls **via a Windows Store app**, even when the system is in **Sleep (Modern Standby)** mode, in much the same way as a smartphone.

In **Sleep (Modern Standby)** all of your work, settings and preferences are saved to memory before the system sleeps. When you are not using your computer for a certain length of time, which you specify in the operating system, it will enter **Sleep (Modern Standby)** to save power.

The PC wakes from Sleep (Modern Standby) within seconds and will return you to where you last left off (what was on your desktop) without reopening the application(s) and file(s) you last used.

Driver Installation

The *Device Drivers & Utilities + User's Manual* disc contains the drivers and utilities necessary for the proper operation of the computer. This setup will probably have already been done for you. If this is not the case, insert the disc and click **Install Drivers** (button), or **Option Drivers** (button) to access the **Optional** driver menu. Install the drivers **in the order indicated** in ***Figure 17***. Click to select the drivers you wish to install (you should note down the drivers as you install them). **Note**: If you need to reinstall any driver, you should uninstall the driver first.

Latest Updates

After installing all the drivers make sure you enable **Check for updates** (**Settings** > **Update & Security** > **Check for updates**) and go to the Microsoft Store and click **Downloads and updates** > **Get updates** to update all Apps etc.

Figure 17 **- Install Drivers**

Driver Installation & Power

When installing drivers make sure your computer is powered by the AC/DC adapter connected to a working power source. Some drivers draw a significant amount of power during the installation procedure, and if the remaining battery capacity is not adequate this may cause the system to shut down and cause system problems (note that there is no safety issue involved here, and the battery will be rechargeable within 1 minute).

Driver Installation General Guidelines

As a general guide follow the default on-screen instructions for each driver (e.g. **Next** > **Next** > **Finish**) unless you are an advanced user. In many cases a restart is required to install the driver.

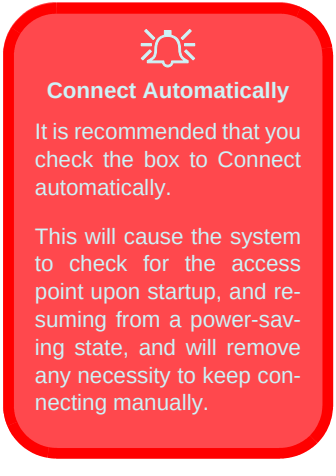
Make sure any modules (e.g. WLAN or Bluetooth) are **ON** before installing the appropriate driver.

Wireless LAN Module (Option)

Make sure the Wireless LAN module is turned on (and not in **Airplane Mode**) before configuration begins.

WLAN Configuration in Windows

1. Click the icon in the notification area of the taskbar.
2. Make sure that **Airplane mode** is **off** (the Airplane mode icon should be gray).
3. A list of available access points will appear.
4. Double-click an access point to connect to it (or click it and click **Connect**).
5. Enter a network security key (password) if required, and click **Next**.
6. You can choose to find other devices or not.
7. When you are connected to the network access point it will display **Connected**.
8. Select any connected network and click **Disconnect** to disconnect from a connected access point.
9. You can click the **Airplane Mode** button to turn the mode On or Off.
10. Alternatively you can click the **Wi-Fi** button to turn just the Wi-Fi On or Off.



Bluetooth Module (Option)

Make sure the Bluetooth module is turned on (and not in **Airplane Mode**) before configuration begins.

Bluetooth Configuration in Windows

1. Click the **Settings** item in the Start Menu and then click **Devices**.
2. Click **Bluetooth & other devices**.
3. Click **Add Bluetooth & other device > Bluetooth** and a list of discovered devices will appear.
4. Double-click the device you want to pair with the computer and click **Connect**.
5. Select a device and click **Remove Device** > **Yes** to disconnect from any device.

English

Fingerprint Reader (Option)

Enroll your fingerprints as instructed below before use. The fingerprint reader module uses the **Sign-in options** configuration of the ***Windows*** **Account**.

Fingerprint Sign-In Issues

If at the Windows Hello screen, the fingerprint reader fails to recognize the fingerprint 3 times it will then block access to the computer. In this case you will need to use your PIN (the PIN you used when initially setting up the fingerprint reader) to access the computer. Alternatively you can sign-in using your windows password. After using the PIN code (or windows Password) to access the computer you can go to the **Settings** > **Accounts** > **Sign-in options** if you wish to change any settings.

Fingerprint Module Configuration

1. Click the **Settings** item in the Start Menu.
2. Click **Accounts** and then click **Sign-in options**.
3. You will need to add a ***Windows*** password (click **Add** under **Password**).
4. After you have added the password you will need to also add a **PIN**.
5. Click **Set up** under **Windows Hello Fingerprint**.
6. The wizard will then guide you through the set up process to enroll your fingerprints.
7. You will be instructed to **Touch the fingerprint sensor** a number of times (**this may be in excess of 20 times**).
8. Try to present different parts of your finger in different positions similar to the various positions you may use when using it, and note the following:
   - Hold the finger on the sensor for at least half a second.
   - Make sure that you make firm direct contact with the sensor, and cover the entire area of the sensor with the finger (you are looking for a reading of at least 75% of the finger area).
   - Use a pressing motion as opposed to a touching or tapping motion.
   - When authenticating use the same sort of angle you used for enrollment.
9. Click **Close** when complete.
10. You can choose to **Add another** finger (this is recommended) or **Remove** the current fingerprint reading.
11. You can now touch the fingerprint sensor to log-on to the computer.

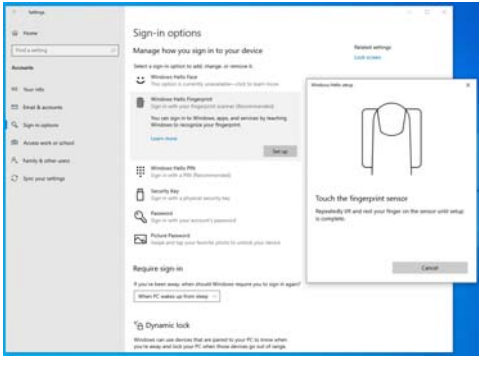


Figure 18 **Accounts - Sign-in options**

Windows Hello Camera (Option)

The **Windows Hello camera** is compatible with the **Windows Hello facial recognition** system. The Windows Hello camera provides a user-friendly interface with a single form of verification to log on to your computer.

The Windows Hello camera module uses the **Sign-in options** configuration of the **Windows Account**.

Windows Hello Camera Module Configuration

1. Before setting up the facial recognition system make sure that:
   - The system is powered by the AC/DC adapter (if the system is powered by the battery then facial recognition will not work).
   - If you are a glasses wearer then it is recommended that you remove your glasses in order to prevent reflection problems hampering the facial recognition system.
2. Click the **Settings** item in the Start Menu.
3. Click **Accounts** and then click **Sign-in options**.
4. You will need to add a ***Windows*** password (click **Add** under **Password**).
5. After you have added the password you will need to also add a **PIN**.
6. Under **Windows Hello** click **Set up** under **Face Recognition**.
7. Click **Get Started** and the Windows Hello Setup Wizard will then guide you through the set up process to scan your face.
8. You will need to key in the pin number on initial setup.
9. Keep looking directly at the screen and the system will scan your face (the blue bar underneath your picture indicates the progress of the scan).
10. The system will then prompt with "**All Set!**", so click **Close** to exit the Setup Wizard.
11. **Restart the computer** after the scanning process has been completed.
12. You can use the facial recognition system to unlock your computer the next time you start the system. The system will prompt with "**Getting ready...**" and after seeing this simply look directly (as it prompts "**Looking for you...**" / "**Making sure it's you..**") at the screen to complete the scan.

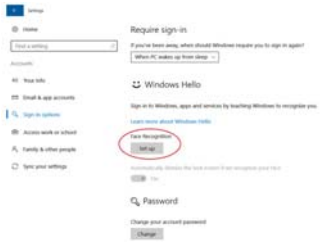


Figure 19
Windows Hello (Face Recognition)

Windows Hello Camera and Power-Saving

If you turn off the Camera (e.g. by using the **Fn + F10** key combination or Control Center icon) then the facial recognition system will not function.

If the system enters and resumes from Hibernate, is restarted, or is shut down and restarted with the camera turned off, then the facial recognition system will not function.

English

TPM (Option)

Before setting up the TPM (Trusted Platform Module) functions you must initialize the security platform.

Activating TPM

1. Restart the computer.
2. Enter the **BIOS** pressing **F2** during the POST/startup.
3. Click **Setup Utility** and select the **Security** menu.
4. Click **TPM Configuration** and select **Enable** for **Security Device Support**.
5. You will then need to press/click **F10** to save the changes and restart the computer.

Figure 20
Security - Trusted Computing

TPM Management in Windows

You can manage your TPM settings from within ***Windows***:

1. Go to the **Control Panel**.
2. Click **BitLocker Drive Encryption** (**System and Security**).
3. Click **TPM Administration**.

Figure 21
BitLocker Drive Encryption (TPM Administration)

4. The TPM Management window allows you to configure the TPM within ***Windows***. As TPM is usually administered within large enterprises and organizations, your system administrator will need to assist you in managing the information here.

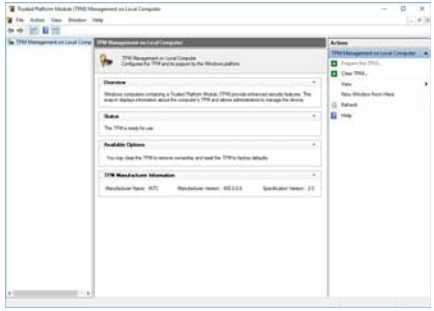


Figure 22
Trusted Platform Module (TPM) Management on Local Computer Administration

TPM Actions

1. Click **Prepare the TPM** and follow the instructions in the Wizard **to** prepare the TPM (this will probably require a restart of the computer and confirmation of the setting changes after restart by pressing the appropriate F key).
2. After the restart the TPM will be prepared and you can then use the **Actions** menu to **Turn TPM off**, **Change Owner Password**, **Clear TPM** or **Reset TPM Lockout**.
3. A wizard will help take you through any setup steps.

Troubleshooting

Problem	Possible Cause - Solution
The **Wireless LAN/Bluetooth** modules cannot be detected.	*The modules are off as the computer is in **Airplane Mode**.* Use the **Fn + F11** key combination to toggle **Airplane Mode** on/off (see ***Table 2 on page 10***).
The **Camera** module cannot be detected.	*The module is off.* Press the **Fn + F10** key combination in order to enable the module (see ***Table 2 on page 10***). Run the camera application to view the camera picture.
Gaming performance is slow.	***It is recommended that you use Maximum fan speed when playing games.*** Use the **Fn + 1** key combination to adjust the fan speed.

Specifications

Latest Specification Information

The specifications listed in this section are correct at the time of going to press. Certain items (particularly processor types/speeds) may be changed, delayed or updated due to the manufacturer's release schedule. Check with your service center for details.

Note that this computer model series may support a range of CPUs and/or video adapters.

To find out which CPU is installed on your system go to the **Start** menu and select **Settings**, and then select **System** and click **About**. This will also provide information on the amount of **Installed RAM** etc.

To get information on your system's **video adapter** go to the **Start** menu and select **Settings**, and then select **System** and click **Display > Advanced display settings > Display adapter properties**.

BIOS

Insyde BIOS (128Mb SPI Flash ROM)

Memory

Dual Channel DDR4

Two 260 Pin SO-DIMM Socket Supporting **DDR4 3200MHz** Memory

Memory Expandable up to 32GB

Compatible with 8GB or 16GB Modules

(The real memory operating frequency depends on the FSB of the processor.)

Display Options

LCD, 15.6" (39.62cm), 16:9, FHD (1920x1080)

Storage

One M.2 **PCIe Gen4 x4** Solid State Drive (SSD)

One M.2 **SATA/PCIe Gen3 x4** Solid State Drive (SSD)

Audio

High Definition Audio Compliant Interface

2 * Built-In Speakers

Built-In Array Microphone

Pointing Device

Built-in Touchpad (with Microsoft PTP Multi Gesture & Scrolling Functionality)

Or

(**Factory Option**) Built-in Secure Pad (with Microsoft PTP Multi Gesture & Scrolling Functionality)

Keyboard

Full-size Keyboard (with Numeric Keypad)

Or

(**Factory Option**) Full-size **Multi-Color** LED Keyboard (with Numeric Keypad)

Security

Security (Kensington® Type) Lock Slot

BIOS Password

Intel PTT for Systems Without TPM Hardware

(**Factory Option**) TPM 2.0

(**Factory Option**) Fingerprint Sensor

Interface

One USB 3.2 Gen 2 Type-C Port*

**The maximum amount of current supplied by USB Type-C ports is 500mA (USB 2.0)/ 900mA (USB3.2).*

One Thunderbolt 4 Port with Power Delivery (DC-In)**

***The power output of the Thunderbolt 4 port is 5V/3A in AC mode or 5V/1.5A in DC mode.*

One USB 3.2 Gen 2 Type-A Port

One USB 2.0 Port

One HDMI-Out Port

One 2-In-1 Audio Jack (Headphone / Microphone)

One RJ-45 LAN Jack

One DC-in Jack

Card Reader

MicroSD Card Reader

M.2 Slots

Slot 1 for **WLAN and Bluetooth** Combo Module

Slot 2 for **PCIe Gen4 x4 SSD**

Slot 3 for **SATA** or **PCIe Gen3 x4 SSD**

Communication

Built-In 10/100/1000Mb Base-TX Ethernet LAN

1.0M HD PC Camera Module

Or

(**Factory Option**) Windows Hello Camera Module

WLAN/ Bluetooth M.2 Modules:

(**Factory Option**) Intel® Dual Band Wi-Fi 6 AX200 Wireless LAN (**802.11ax**) + Bluetooth

(**Factory Option**) Intel® Dual Band Wi-Fi 6 AX201 Wireless LAN (**802.11ax**) + Bluetooth

(**Factory Option**) Intel® Dual Band Wireless-AC 9462 Wireless LAN (**802.11ac**) + Bluetooth

Features

Intel® Optane™ Technology (for Intel Core processor family)

Environmental Spec

Temperature

Operating: 5°C - 35°C

Non-Operating: -20°C - 60°C

Relative Humidity

Operating: 20% - 80%

Non-Operating: 10% - 90%

Power

Full Range AC/DC Adapter

AC Input: 100 - 240V, 50 - 60Hz

DC Output: 19V, 3.42A (**65W**)

Embedded Lithium-Ion Polymer Battery Pack, 36WH

(**Factory Option**) Embedded Lithium-Ion Polymer Battery Pack, 73WH

Dimensions & Weight

357mm (w) * 220.5mm (d) * 19.9mm (h)

1.6kg (Barebone with 36WH Battery)