



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE



E15695

Revised Edition V2 / December 2019

IN SEARCH OF INCREDIBLE

User Guide

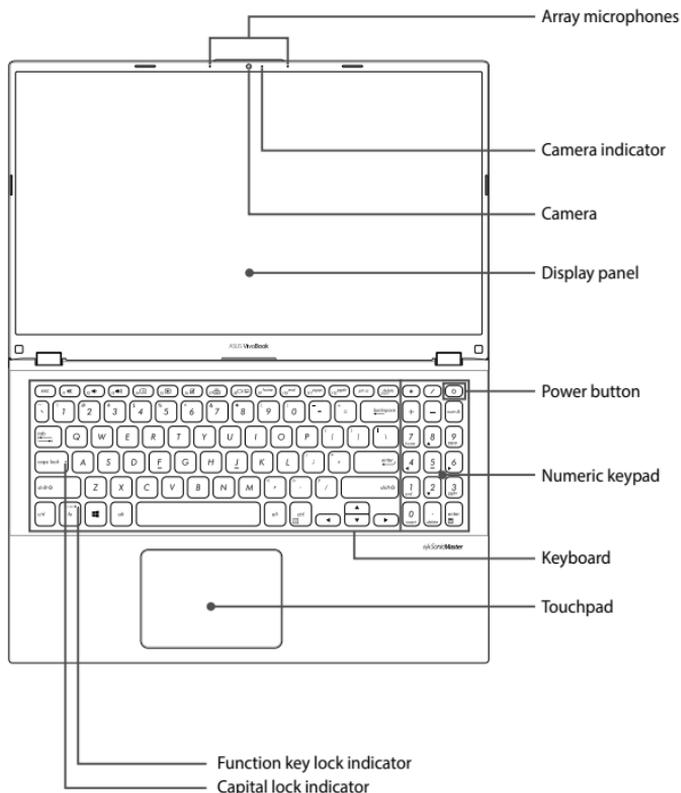
ASUS



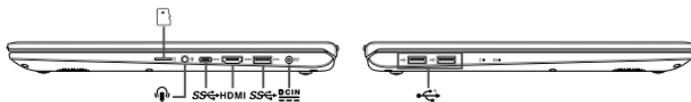


Top View

NOTE: The keyboard's layout may vary per region or country. The top view may also vary in appearance depending on the Notebook PC model.



I/O ports and slots



-  MicroSD card slot
-  Headphone/Headset/Microphone jack
-  USB 3.2 Gen 1 Type-C® port
-  HDMI port
-  USB 3.2 Gen 1 port
-  Power (DC) input port
-  USB 2.0 port

Getting started

1. Charge your Notebook PC

A. Connect the DC power connector into your Notebook PC's power (DC) input port.

B. Plug the AC power adapter into a 100V~240V power source.

IMPORTANT! Use only the bundled power adapter to charge the battery pack and supply power to your Notebook PC.

NOTE: The power adapter may vary in appearance, depending on models and your region.



2. Lift to open the display panel

3. Press the power button



Charge the Notebook PC for **3 hours** before using it in battery mode for the first time.



Safety notices for your Notebook PC

WARNING!

Your Notebook PC can get warm to hot while in use or while charging the battery pack. Do not leave your Notebook PC on your lap or near any part of your body to prevent injury from heat. When working on your Notebook PC, do not place it on surfaces that can block the vents.

CAUTION!

- This Notebook PC should only be used in environments with ambient temperatures between 5°C (41°F) and 35°C (95°F).
- Refer to the rating label on the bottom of your Notebook PC and ensure that your power adapter complies with this rating.
- The power adapter may become warm to hot while in use. Do not cover the adapter and keep it away from your body while it is connected to a power source.

IMPORTANT!

- Ensure that your Notebook PC is connected to a grounded power adapter before turning it on for the first time.
- When using your Notebook PC on power adapter mode, the socket outlet must be near to the unit and easily accessible.
- Locate the input/output rating label on your Notebook PC and ensure that it matches the input/output rating information on your power adapter. Some Notebook PC models may have multiple rating output currents based on the available SKU.
- Power adapter information:
 - Input voltage: 100-240Vac
 - Input frequency: 50-60Hz
 - Rating output current: 2.37A (45W) / 3.42A (65W)
 - Rating output voltage: 19V

WARNING!

Read the following precautions for your Notebook PC's battery:

- Only ASUS-authorized technicians should remove the battery inside the device (for non-removable battery only).
- The battery used in this device may present a risk of fire or chemical burn if removed or disassembled.
- Follow the warning labels for your personal safety.
- Risk of explosion if battery is replaced by an incorrect type.
- Do not dispose of in fire.
- Never attempt to short-circuit your Notebook PC's battery.
- Never attempt to disassemble and reassemble the battery (for non-removable battery only).
- Discontinue usage if leakage is found.
- This battery and its components must be recycled or disposed of properly.
- Keep the battery and other small components away from children.





Avis concernant les batteries remplaçables

- La batterie de l'appareil peut présenter un risque d'incendie ou de brûlure si celle-ci est retirée ou désassemblée.
- La batterie et ses composants doivent être recyclés de façon appropriée.

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Service and Support

For complete E-Manual version, refer to our multi-language website at:

<https://www.asus.com/support/>





FCC Radio Frequency (RF) Exposure Caution Statement

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance.

UL Safety Notices

- DO NOT use the Notebook PC near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- DO NOT use the Notebook PC during an electrical storm. There may be a remote risk of electric shock from lightning.
- DO NOT use the Notebook PC in the vicinity of a gas leak.
- DO NOT dispose the Notebook PC battery pack in a fire, as they may explode. Check with local codes for possible special disposal instructions to reduce the risk of injury to persons due to fire or explosion.
- DO NOT use power adapters or batteries from other devices to reduce the risk of injury to persons due to fire or explosion. Use only UL certified power adapters or batteries supplied by the manufacturer or authorized retailers.

Coating Notice

IMPORTANT! To provide electrical insulation and maintain electrical safety, a coating is applied to insulate the device except on the areas where the I/O ports are located.

Prevention of Hearing Loss

To prevent possible hearing damage, do not listen at high volume levels for long periods.



Power Safety Requirement

Products with electrical current ratings up to 6A and weighing more than 3Kg must use approved power cords greater than or equal to: H05VV-F, 3G, 0.75mm² or H05VV-F, 2G, 0.75mm².





Declaration of Compliance for Product Environmental Regulation

ASUS follows the green design concept to design and manufacture our products, and makes sure that each stage of the product life cycle of ASUS product is in line with global environmental regulations. In addition, ASUS disclose the relevant information based on regulation requirements. Please refer to <http://csr.asus.com/Compliance.htm> for information disclosure based on regulation requirements ASUS is complied with.

EU REACH and Article 33

Complying with the REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) regulatory framework, we publish the chemical substances in our products at ASUS REACH website at <http://csr.asus.com/english/REACH.htm>.

EU RoHS

This product complies with the EU RoHS Directive. For more details, see <http://csr.asus.com/english/article.aspx?id=35>.

Japan JIS-C-0950 Material Declarations

Information on Japan RoHS (JIS-C-0950) chemical disclosures is available on <http://csr.asus.com/english/article.aspx?id=19>.

India RoHS

This product complies with the "India E-Waste (Management) Rules, 2016" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) in concentrations exceeding 0.1% by weight in homogenous materials and 0.01% by weight in homogenous materials for cadmium, except for the exemptions listed in Schedule II of the Rule.





ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials. Please go to <http://csr.asus.com/english/Takeback.htm> for detailed recycling information in different regions.

Ecodesign Directive

European Union announced a framework for the setting of ecodesign requirements for energy-related products (2009/125/EC). Specific Implementing Measures are aimed at improving environmental performance of specific products or across multiple product types. ASUS provides product information on the CSR website. Further information could be found at <https://csr.asus.com/english/article.aspx?id=1555>.

EPEAT Registered Products

The public disclosure of key environmental information for ASUS EPEAT (Electronic Product Environmental Assessment Tool) registered products is available at <https://csr.asus.com/english/article.aspx?id=41>. More information about EPEAT program and purchase guidance can be found at www.epeat.net.

Regional notice for Singapore

Complies with IMDA Standards DB103778

This ASUS product complies with IMDA Standards.





Simplified EU Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. Full text of EU declaration of conformity is available at <https://www.asus.com/support/>.

The WiFi operating in the band 5150-5350 MHz shall be restricted to indoor use for countries listed in the table below:

AT	BE	BG	CZ	DK	EE	FR
DE	IS	IE	IT	EL	ES	CY
LV	LI	LT	LU	HU	MT	NL
NO	PL	PT	RO	SI	SK	TR
FI	SE	CH	UK	HR		



Federal Communications Commission Interference Statement

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.

FCC COMPLIANCE INFORMATION

Per FCC Part 2 Section 2.1077



Responsible Party: Asus Computer International
Address: 48720 Kato Rd., Fremont, CA 94538
Phone/Fax No: (510)739-3777/(510)608-4555

hereby declares that the product

Product Name : VivoBook/ASUS Laptop
Model Number : X512U, F512U, A512U, R564U, P1504U, S512U,
K512U, V512U, X512F, F512F, A512F, R564F, P1504F,
S512F, K512F, V512F, X512D, F512D, A512D, R564D,
P1504D, S512D, K512D, V512D, X512J, A512J, R564J,
P1504J, S512J, K512J, V512J

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

Ver. 180125

RED RF Output table

X512U / X512D

RTL8821CE

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2412 - 2472 MHz	18 dBm
	5150 - 5350 MHz	21 dBm
	5470 - 5725 MHz	20 dBm
Bluetooth	2402 - 2480 MHz	8 dBm

RTL8822BE

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2412 - 2472 MHz	18 dBm
	5150 - 5350 MHz	21 dBm
	5470 - 5725 MHz	20 dBm
Bluetooth	2402 - 2480 MHz	8 dBm

QCNFA435

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2412 - 2472 MHz	18 dBm
	5150 - 5350 MHz	20 dBm
	5470 - 5725 MHz	19 dBm
Bluetooth	2402 - 2480 MHz	6 dBm

Intel 8265NGW

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2412 - 2472 MHz	18 dBm
	5150 - 5350 MHz	21 dBm
	5470 - 5725 MHz	20 dBm
	5745 - 5825 MHz	11 dBm
Bluetooth	2402 - 2480 MHz	13 dBm

For the standard EN 300 440 V2.1.1, if this device operates in 5725-5875 MHz, it will be considered as a receiver category 2.

X512F

RTL8822BE

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2412 - 2472 MHz	18 dBm
	5150 - 5350 MHz	21 dBm
	5470 - 5725 MHz	20 dBm
Bluetooth	2402 - 2480 MHz	8 dBm

RTL8822CE

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2412 - 2472 MHz	17 dBm
	5150 - 5350 MHz	15 dBm
	5470 - 5725 MHz	15 dBm
Bluetooth	2402 - 2480 MHz	8 dBm

QCNFA435

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2412 - 2472 MHz	18 dBm
	5150 - 5350 MHz	20 dBm
	5470 - 5725 MHz	19 dBm
Bluetooth	2402 - 2480 MHz	6 dBm

Intel 9462NGW

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2412 - 2472 MHz	17 dBm
	5150 - 5350 MHz	17 dBm
	5470 - 5725 MHz	16 dBm
	5745 - 5825 MHz	11 dBm
Bluetooth	2402 - 2480 MHz	11 dBm

Intel 9560NGW

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2412 - 2472 MHz	17 dBm
	5150 - 5350 MHz	17 dBm
	5470 - 5725 MHz	16 dBm
	5745 - 5825 MHz	10 dBm
Bluetooth	2402 - 2480 MHz	12 dBm

Intel AX201

Function	Frequency	Maximum Output Power (EIRP)
WiFi	2412 - 2472 MHz	19 dBm
	5150 - 5350 MHz	21 dBm
	5470 - 5725 MHz	20 dBm
	5725 - 5850 MHz	11 dBm
Bluetooth	2402 - 2480 MHz	10 dBm

For the standard EN 300 440 V2.1.1, if this device operates in 5725-5875 MHz, it will be considered as a receiver category 2.

