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Quick User Guide



Rugged Laptop

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Thank you for choosing VANDOR brand products!

For the efficient operation of the device and to avoid unforeseen consequences, please read this User Manual carefully. Familiarize yourself with it; you will find all the necessary information. Improper use of the device is very dangerous to your health. The manufacturer and its representatives cannot be held responsible for any possible damage caused by incompatible, erroneous, or improper use of the device.

Any changes to this User Manual, the VANDOR Rugged Laptop (technical specifications, configuration, appearance) may be made without prior notice to the user. Illustrations and diagrams presented in this User Manual may differ from the external appearance of the actual device.

If you find any errors in this User Manual and/or software, please report them via the contact information provided on the official website: www.aicter.com

The warranty period of operation is 12 (twelve) months from the date of sale. The service life of the Rugged Laptop is 24 (twenty-four) months starting from the date of manufacture. The service life of the rechargeable battery is 12 (twelve) months. The manufacture date (year and month) is encoded in the first four digits of the device's part number.

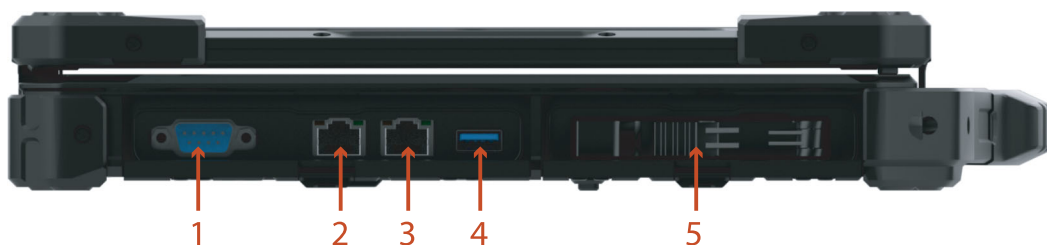
1. Appearance

1.1 Front Panel View and Components



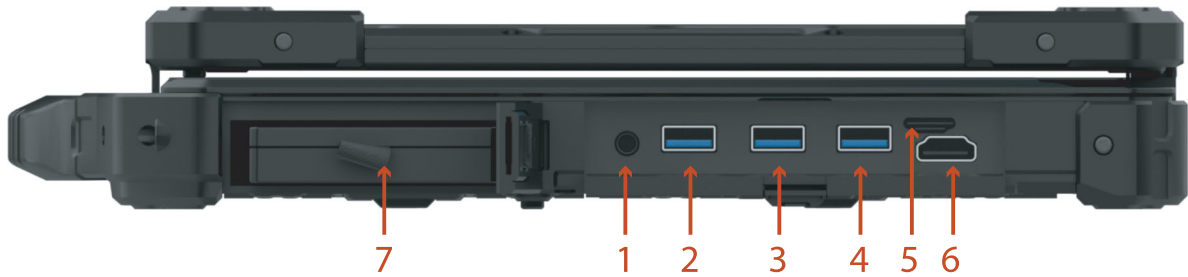
1. LCD Screen
2. Function Keys (P1: One-press Stealth Mode – turn off all backlights; P2: One-press Restore)
3. Backlit Function Keyboard
4. Touchpad
5. Indicator Panel
6. Stereo Speakers
7. 5MP Front Camera
8. Microphones

1.2 Left Panel View and Components



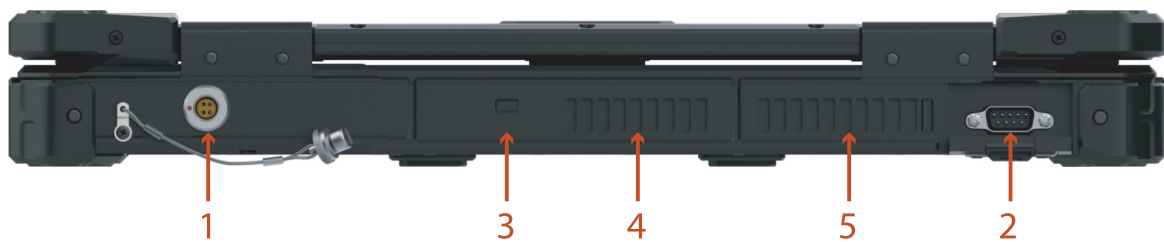
1. RS232 Serial Interface;
2. RJ45 Network Port Interface;
3. RJ45 Network Port Interface;
4. USB 2.0 Interface;
5. 2.5" Removable SSD Bay.

1.3 Right Panel View and Components



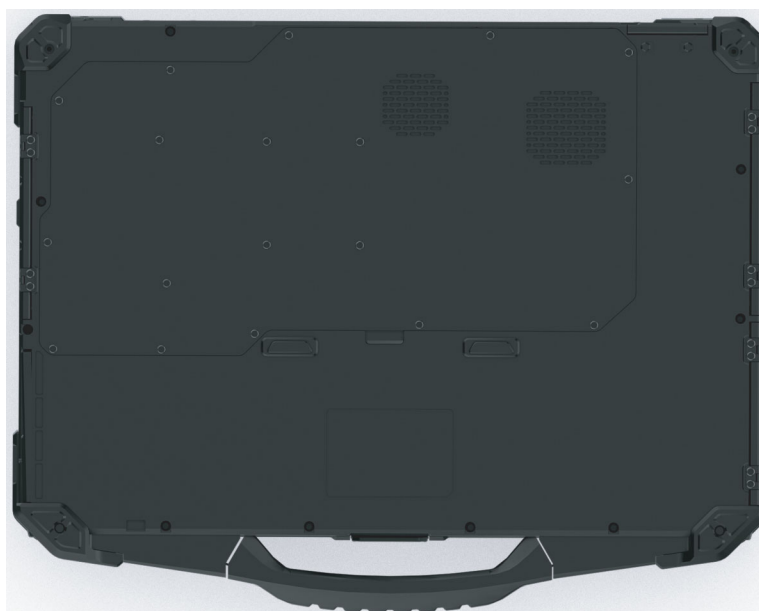
1. Combo Audio Jack (Headphone & Microphone)
2. USB 3.0 Interface
3. USB 3.0 Interface
4. HDMI Output
5. External Battery Bay

1.4 Rear Panel View and Components



1. 19V DC Power Jack (with Power Switch)
2. RS232 Serial Port Interface
3. Keying Card Slot
4. Ventilation Openings
5. Ventilation Openings

1.5 Bottom Cover View and Components



2. Technical Specifications

Performance Parameters	
Processor Model	Intel Core i7-11390H
RAM Capacity	32GB
Main Storage Capacity	1024GB
Display	
Screen Size	15.6"
Type	IPS, Touchscreen
Resolution	1920 x 1080
Aspect Ratio	16:9
Brightness	700 nits
Ports & Interfaces	
HDMI	1
USB 3.x Type-A	3
USB 2.x Type-A	1
RJ-45	2
RS232 Serial Port	2
3.5mm Audio Jack	1
Ports & Interfaces	
Wired Interface	Gigabit Ethernet
Wireless Interface	Wi-Fi 6 2.4GHz / 5GHz; Wi-Fi 802.11b/g/n/ac/ax
Bluetooth	Bluetooth 5.3
Camera	
Webcam	Yes
Resolution	5MP
Camera Shutter	No
Battery	
Type	Li-Polymer
Number of Batteries	2
Main Battery	Non-removable, 4000 mAh
Additional Battery	Removable, 8000 mAh
Chassis & Weight	
Dimensions	383×265×43 mm
Material	Aluminum-Magnesium Alloy
Weight	4.2 kg
Color	Black
Chassis & Weight	
Operating Temperature	-20°C ~ 55°C
Storage Temperature	-20°C ~ 60°C
Humidity	95% Non-condensing
Protection Rating	IP65 (MIL-STD-810G)
Drop Test Height	1.22 m

3. Getting Started

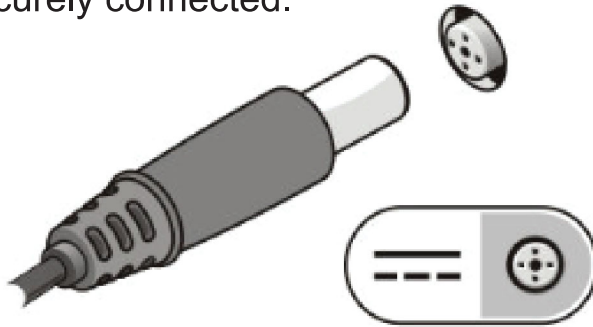
3.1 Package Contents

The standard package includes: Rugged Laptop, Power Adapter, Quick User Guide. The battery is already installed in the rugged laptop.

3.2 Preparing for Use

Before starting work, it is recommended to fully charge the rugged laptop. To do this, follow these steps:

1. Open the protective cover of the power connector.
2. Connect the adapter plug to the power port of the rugged laptop, making sure the plug is securely connected.



3. Connect the AC end of the power cable to the adapter, and the plug end to an electrical outlet.

4. Care and Maintenance

4.1 Placement Recommendations

For optimal performance, use the rugged laptop at the recommended temperature range of -20°C to $+55^{\circ}\text{C}$ (the actual working temperature range is subject to the product's technical specifications).

Do not place the rugged laptop in places with high humidity, extreme temperatures, strong mechanical vibration, direct sunlight, or strong heat sources.

Using the computer in extreme conditions for a long time may lead to deterioration of product quality and reduction of its service life.

Operation in a metal dust environment is not allowed.

4.2 Recommendations for Battery Usage

The battery is a consumable item, and the following conditions will shorten its service life:

- Frequent incomplete charging of the battery;
- Use, charging, or storage in high-temperature environments;

To avoid accelerated battery wear and extend its service life, minimize the number of charge cycles to prevent frequent increases in its internal temperature.

Charge the battery within a temperature range of +10°C to +30°C.

A higher ambient temperature will cause the battery temperature to rise. In addition, charging will not start if the battery temperature is outside the permissible range.

To maintain battery performance during storage, store it with a 30–40% remaining charge.

4.3 Disposal Conditions

For disposal requirements, please obtain information from local government authorities, or contact an authorized service center/sales organization.

5. Warranty Terms

General Provisions

Manufacturer: Malachor Electronics Limited Purchaser: A natural or legal person operating the product.

The VANDOR Rugged Notebook is covered by free warranty service for the established warranty period. The warranty applies to all equipment components corresponding to the serial number and/or part number. The warranty does not apply to components and modules from third-party manufacturers that have been installed in the VANDOR Rugged Notebook.

Warranty Service Period

The manufacturer establishes a 12 (twelve)-month free warranty service period for the rugged notebook, and a 12 (twelve)-month free warranty service period for the internal and external batteries.

Warranty Service Conditions

Warranty Claim:

In the event of a defect in the operation of the product, the Purchaser must file a claim for warranty service. The procedure for service requests and the list of authorized service centers are specified on the manufacturer's website: <https://www.aicter.com>. The manufacturer reserves the right to perform initial remote diagnostics to collect information about the malfunction and determine the optimal repair option.

Conditions for Submitting Equipment for Warranty Service

The product is accepted for warranty service if complete inventory information is provided to identify the equipment and its initial configuration. A legible serial number applied to the device body is required. The product is accepted for warranty service on the basis of:

-a completed formalized accompanying sheet in the approved format which indicates the product name, article number, serial number, configuration, complete set of accessories, and other information as well as -a description of the malfunction and the results of initial remote diagnostics (if performed)

- a document confirming the purchase of the product.

For the product accepted for warranty repair, the buyer will be issued an order form of the established format, indicating the serial number and date of issuance.

The product submitted for warranty service must be complete with all original accessories.

Warranty Service Procedure

Warranty service is performed at the Manufacturer's authorized service centers. Warranty service includes testing (verification) of the defect claimed by the Buyer; if the defect is confirmed, free warranty repair (service) will be performed.

The duration of warranty repair shall not exceed 45 working days. The warranty period is extended by the time the equipment is under repair.

If the Manufacturer does not have the necessary components in stock to fulfill warranty obligations, the Manufacturer reserves the right to offer a replacement product equivalent in cost and/or technical specifications.

If a material defect (i.e., a defect that cannot be repaired) is found in the purchased equipment, the defective product will be replaced with an equivalent working product (subject to the service center's official conclusion confirming the material defect of the product).

The Buyer must collect the product no later than 14 calendar days from the date of completion of the free warranty repair, at the address specified in the accompanying sheet. If the Buyer fails to collect the product within the specified period, the Authorized Service Center (ASC) has the right to charge additional storage fees, up to 5% of the product's value for each day of storage.

If the storage cost exceeds the value of the product itself, the product will be deemed payment for storage services and will not be returned to the Buyer. The product will be returned after free warranty repair in the same condition and with the same accessories as when it was accepted.

The basis for collecting the product after free warranty repair is the order form issued to the Buyer when submitting the product for warranty repair.

Denial of Warranty Service

Warranty service shall not be provided for:

- Products submitted for quality inspection after the expiration of the warranty period.
- Products with damage caused by improper transportation, storage, or operating conditions**.
- Products with signs of mechanical damage (cracks, breaks, scratches) that have impaired the operability of the equipment.
- Products with signs of exposure and/or ingress of foreign objects, substances, liquids, insects, as well as products with unauthorized markings.
- Products with component damage caused by connection to a power supply voltage that does not comply with the standard power supply (220 V $\pm$ 10%).
- Products with signs of housing corrosion, oxidation of contacts and conductive parts.
- Products with damage resulting in the destruction of microcircuits and/or other electronic and electrical components, caused by connecting external devices while powered on, exposure to static electricity, and/or improper grounding.
- Products with signs of opening and/or repair performed by the user independently and/or by an unauthorized service center.

In all of the above non-warranty cases, the Buyer shall be issued a conclusion on the violation of warranty conditions (a warranty denial act) with a mandatory justification of the reason for denial.

In the event of a dispute between the Manufacturer and the Buyer regarding the existence of defects and/or the causes of their occurrence, the Manufacturer shall accept the goods for an independent expert examination to conduct an additional quality check and/or determine the causes of the defects. If no defects are found, or if the independent expert examination concludes that the defects were caused by the Buyer's actions, the costs of the independent expert examination shall be paid by the Buyer.

The Manufacturer reserves the right to offer paid service for all non-warranty cases (upon denial of warranty service).

6. Warranty Certificate

Model: _____

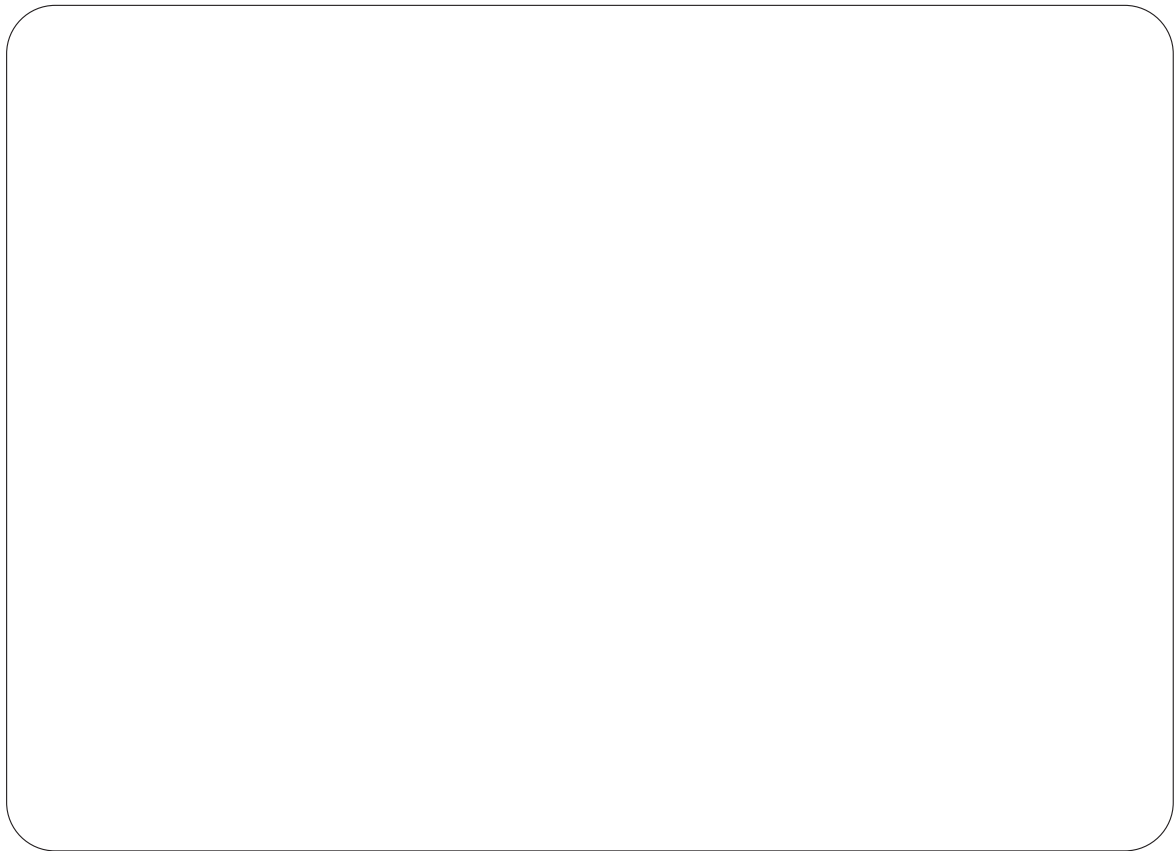
Article Number: _____

Date and Place of Purchase: _____

ATTENTION!

The warranty certificate is valid without the seller's stamp.

Store/Seller's Stamp:



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Address: 3rd Floor, Building 2, No. 885 Zhangjing Road, Dongjing Town,
Songjiang District, Shanghai. Warranty: 1 year. Lifetime period: 2 years.

Assembled in P.R.C.

www.aicter.com

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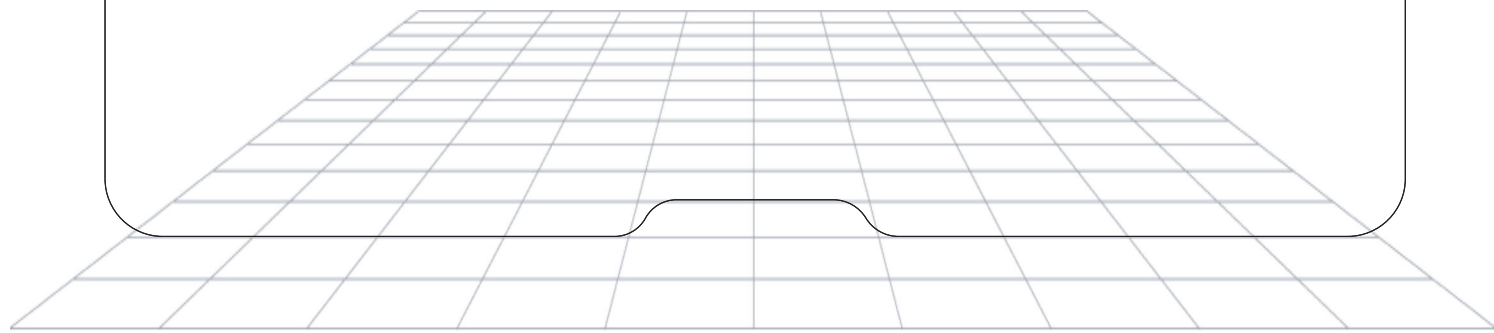
For Notes:

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FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.