CUSTOM P-RANGER Rugged Handheld Computer User Guide

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CUSTOM P-RANGER Rugged Handheld Computer

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Installing MicroSD and/or SIM cards

- Unscrew the two fixing screws on the back.

- Remove the plastic cover.

- Remove the battery.

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Insert SIM Cards and MicroSD.

Installing/replacing the battery

- Unscrew the two fixing screws on the back.

- Remove the plastic cover.

- Remove the battery.

- Place the replacement battery in its slot.

- Assemble the cover as shown in the figure and fix it with the two screws previously removed.

Technical specification

GENERAL

Durability	IP-67 certified 1.22M(4ft) drop-resistance
CPU	Mediatek MTK 6762 64bit/8 Cortex A-53 2,0GHz
OS	Android™ 9
Memory	2 GB
Storage	16 GB
Audio	Integrated microphone Integrated speaker

PERIPHERALS

Camera	Front: N/A Rear: 8.0 megapixel AF camera with LED
Sensors	Accelerometer (G-sensor) 3-axis digital gyroscope E-Compass/Proximity Sensor
Light Sensor	Ambient light sensor
WLAN	Integrated IEEE 802.11 a/b/g/n/ac
Bluetooth	Integrated Bluetooth 4.1 LE with HID input
WWAN	Support
Navigation	GPS
Barcode scanner	1D/2D barcode reader with physical trigger keys

TOUCH SCREEN

Type	10-point capacitive touch screen AGC Dragontrail glass

LCD DISPLAY

Size / type	5" IPS LCD
Resolution	1280 × 720

POWER SUPPLY

Power system	Lithium-ion rechargeable battery
Battery type	Replaceable
Battery capacity	4000 mAh
Battery life	Up to 8 hours
Adapter input	AC 100-240 V, from 50 or 60 Hz
Adapter output	5V, 2A

ENVIRONMENTAL CONDITIONS

Operating temperature (Device)	from -20°C to 60°C
Operating temperature (Power Adapter)	from -20°C to 35°C
Storage temperature	from -30°C to 70°C

Warnings

BATTERY

1. The rechargeable battery can be used to power your device. Charge the battery when the power level is low. It is recommended that you use up the entire battery charge before recharging, to ensure longer battery life.
2. Do not connect the charger to any power source if it is not in good condition.
3. Never connect the charger to the battery for more than one week because overcharging shortens battery life.
4. Temperature affects the battery charge limits, so it may be necessary to cool or warm the battery before charging. Recharging will not be successful if the battery temperature is above 55°C or below -20°C.
5. To avoid short circuits use the battery only for the purpose for which it was originally designed. A short circuit will occur if the battery cathode and anode are connected by a conductor.
6. Never use the battery if it is damaged.
7. Battery life will be reduced if the battery is in an extremely hot or extremely cold environment. The device may not function properly, even if the battery is fully charged if the battery is exposed to extremely hot or extremely cold environmental conditions.
8. Do not throw the battery into a fire. Dispose of used batteries responsibly.
9. Used batteries should be taken to battery recycling services and disposed of according to local regulations.

DEVICE

1. Keep your device and all accessories out of the reach of children.
2. Keep your device dry as liquids can corrode the metal circuits. Keep your phone away from high temperatures because high temperatures can reduce the life of electronic components, melt plastics and damage the battery.
3. Do not attempt to open the device case or disassemble the phone.
4. Non-professional disassembly will potentially damage the phone. Do not use detergents containing strong acids or strong alkaline to clean your phone.
5. Always use the original accessories, otherwise, the warranty will be void.

SAFETY INFORMATION

1. When using your device, always comply with the safety rules to protect users and the environment.

SAFETY IN TRAFFIC

1. Except in case of an emergency, do not use your device while driving unless hands-free devices are connected to ensure safety and freedom of movement.
2. Make sure you are completely focused on driving. Park your vehicle in a safe place before using your device. Comply with all applicable regulations. Some electronic devices may be affected by radio waves transmitted by your device if sufficient protection is not provided.
3. It is recommended that you use your device only in vehicles with an external antenna.
4. Always employ qualified technicians to install your device in your vehicle.
5. Flight safety
6. Switch off your device before boarding, as devices interfere with the operation of aircraft and the entire mobile network. It is illegal to use devices on aircraft and violation of these safety regulations will result in a denial of customer service.

ENVIRONMENTAL SAFETY

1. Remember to always comply with all current applicable rules and policies.

2. Always remember to switch off your device when its use is prohibited or may cause interference or hazards.

3. Use of any wireless transmission equipment, including your device, may interfere

4. with an inadequately protected medical device. Consult your physician or medical device manufacturer if you have any questions about this. Your device may interfere with hearing aids, pacemakers, and other electronic medical devices. Follow the recommendations of your doctor or the manufacturer.

5. Users are recommended to switch off their devices at any places where an explosion may occur, e.g. gas stations and chemical plants. Comply with any restrictions on the use of wireless devices.

FCC REGULATORY STATEMENT

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

   this device must accept any interference received, including interference that may cause undesired operation.

This Product meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluations of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.
FCC RF Exposure Information and Statement the SAR limit of the USA (FCC) is 1.6W/Kg averaged over one gram of this Device RP310 (FCC ID: OAH-5221120) has been tested against this SAR limit. SAR information on this can be viewed online at **http://www.fcc.gov/oet/ea/fccid/.** Please use the device FCC ID number for the search. This device was tested for typical operations 10mm from the body. To maintain compliance with FCC RF exposure requirements, a 10mm separation distance should be. maintained to the user's bodies
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 radiofrequency 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 ID: OAH-5221120

GUIDELINES FOR THE DISPOSAL OF THE PRODUCT WITHIN THE EUROPEAN UNION EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste.
OUTSIDE THE EUROPEAN UNION
This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your display products, please follow the guidance of your local authority, ask the shop where you purchased the product, or if applicable, follow any agreements made between yourself. The mark on electrical and electronic products only applies to the current European Union Member States.

Documents / Resources

CUSTOM P-RANGER Rugged Handheld Computer [pdf] User Guide
5221120, OAH-5221120, OAH5221120, P-RANGER Rugged Handheld Computer, P-RANGER, Rugged Handheld Computer

References

- ⊘ **Custom: Hi-Tech Solutions Company | Custom S.p.A.**
- ⊘ **Custom4U | Italy**
- ℻ **FCC ID Search | Federal Communications Commission**