

Unitech RT112BWN Rugged Tablet



# unitech RT112BWN Rugged Tablet User Manual

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## Unitech RT112BWN Rugged Tablet



### Revision History

Date	Change Description	Version
20231016	First Published Version	V1.0

Thank you for purchasing the Unitech product. This manual explains how to install, operate and maintain our product. No part of this publication may be reproduced or used in any form, or by any electrical or mechanical means, such as photocopying, recording, or information storage and retrieval systems, without permission in writing from the manufacturer. The material in this manual is subject to change without notice.

## **Regulatory Compliance Statements**

### **FCC Statement**

This device 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 with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with 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.
- 
1. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
  2. This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure requirements, avoid direct contact to the transmitting antenna during transmitting.
  3. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.
  4. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

### **FCC Label 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.

### **RF Radiation Exposure Statement**

For body contact during operation, this device has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 1.0 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

### **IC Statements**

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 interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

1. the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

Devices shall not be used for control of or communications with unmanned aircraft systems

### **IC Radiation Exposure Statement**

This EUT is in compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528 and IEC 62209. This equipment should be installed and operated with minimum distance 10 mm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

### **European Conformity Statement**

Unitech Electronics co., Ltd herewith declares that the Unitech product is in compliance with the essential requirements and all other provisions of the RED 2014/53/EU directive.

The declaration of conformity is available for download at:

- <https://portal.Unitech.eu/public/Safetyregulatorystatement>

### **UK Declaration of Conformity (DoC)**

Hereby, Unitech electronics co., ltd. declares that the radio equipment type Rugged Handheld Computer is in compliance with UK Radio Equipment Regulations 2017(RER 2017 (SI 2017/1206)). The full text of the UK declaration of conformity is available at the following internet address: <https://www.ute.com>

### **UKCA Mark Warning**



### **CE RF Exposure Compliance**

For body-worn operation, this device has been tested and meets the ICNIRP guidelines and the European Standard EN 62209-2, for use with dedicated accessories, SAR is measured with this device at a separation of 0.5 cm to the body, while transmitting at the highest certified output power level in all frequency bands of this device. Use of other accessories which contain metals may not ensure compliance with ICNIRP exposure

guidelines.

## CE Mark Warning



## RoHS Statement



This device conforms to RoHS (Restriction Of Hazardous Substances) European Union regulations that set maximum concentration limits on hazardous materials used in electrical and electronic equipment.

## Waste Electrical and Electronic Equipment (WEEE)

Unitech has set up a policy and process to meet the 2012/19/EU concerning electronic waste disposal. For more detailed information of the electronic waste disposal of the products you have purchased from Unitech directly or via Unitech's resellers, you shall either contact your local supplier or visit us at:

- <https://portal.Unitech.eu/public/WEEE>

## Laser Information

The Unitech product is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J and to the requirements of IEC 60825-1. Class II and Class 2 products are not considered to be hazardous. The Unitech product contains internally a Visible Laser Diode (VLD) whose emissions do not exceed the maximum limits as set forth in the above regulations. The scanner is designed so that there is no human access to harmful laser light during normal operation, user maintenance or prescribed service operations. The laser safety warning label required by the DHHS/IEC for the Unitech product's optional laser scanner module is located on the memory compartment cover, on the back of the unit. Laser information only applies to the products with laser components. **CAUTION!** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light. Use of optical instruments with the scanner, including binoculars, microscopes, and magnifying glasses, with will increase eye damage. This does not include eyeglasses worn by the user.

## LED Information

The Unitech product contains LED indicator(s) or LED ring whose luminance is not harmful to human eyes during normal operation, user maintenance or prescribed service operations. LED information only applies to the products with LED components.

## Battery Notice

1. To guarantee optimal performance, it is recommended that rechargeable batteries be replaced every year, or after 500 charging cycles are completed. It is normal for the battery to balloon or expand after one year or 500 cycles. Although it does not cause damage, it cannot be used again and must be disposed of according to the location's safe battery disposal procedures.
2. If a battery performance decreases more than 20%, the battery is at the end of its life cycle. Stop use and ensure the battery is disposed of properly.

3. The length of time that a battery lasts depends on the battery type and how the device is used. Conserve the battery life by doing the following:
- Avoid fully uncharging the battery because this places additional strain on it. Several partial uncharges with frequent charges are better than a fully uncharged battery. Charging a partially charged battery does not cause harm to the unit.
  - DO NOT leave the battery pack or in the device in a hot condition such as in the car with closed door on a hot day or similar environment, and/or under direct sunlight for an extended period of time. High-temperature conditions might cause the battery damaged for further safe usage. Keep the device with the battery within acceptable operating temperatures (please refer to the “specification” section for further details).
  - For long-term storage, it is recommended to charge the battery to at least 50% every six months to ensure optimal performance and longevity. Do not leave the battery uncharged and unused for an extended period of time, the battery will wear out and the longevity of the battery will be at least half of one with frequent charges. Despite Unitech’s safety precautions, the battery pack may experience changes in shape or swelling. If so, stop using it immediately. Please check to see if you are using a proper power adapter to charge the battery or contact your service provider for service.
4. If you cannot charge the battery after it has been idle for an extended period of time and it begins to heat up, please do not try to charge it. It may not be functional anymore.
5. Please only use the original battery from Unitech. Using a third-party battery can damage our products. Please note that when such damage occurs, it is not covered by Unitech’s warranty policy.

#### **CAUTION!**

- RISK OF EXPLOSION IF BATTERY IS REPLACED INCORRECTLY. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

#### **Battery Charge Notice**

It is important to consider temperature when the battery pack is charging. Charging is most efficient at normal room temperature or in a slightly cooler environment. It is essential that batteries are charged within the stated range of 0°C to 40°C. Charging batteries outside of the specified range could damage the batteries and shorten their life cycle.

**CAUTION!** Do not charge batteries at a temperature lower than 0°C. This will make the batteries unstable and dangerous. Please use a battery temperature detecting device for a charger to ensure a safe charging temperature range.

**CAUTION!** To ensure the unit working properly, please keep all connectors away from the contaminants staying inside of them such as dust, grease, mud, and water. The negligence may cause the unit with no communication, short circuited, overheated and so on.

**CAUTION!** If the connector is damaged, please ensure the connector is being fully repaired before use the unit to avoid causing short circuited.

#### **Storage and Safety Notice**

Although charged batteries may be left unused for several months, their capacity may be depleted due to build up of internal resistance. If this happens, they will require recharging prior to use. Batteries may be stored at

temperatures between -20°C to 60°C, however they may deplete more rapidly at higher temperatures. It is recommended to store batteries at room temperature.

- The message above only applies to the usage of the removable batteries. For the products with non-removable batteries / without batteries, please refer to the specification of each product.

### Product Operation and Storage Notice

The Unitech product has applicable operation and storage temperature conditions. Please follow the limitation of suggested temperature conditions to avoid failure, damage or malfunction.

- For applicable temperature conditions, please refer to the specification of each product.

### Adapter Notice

1. Please do not leave the power adapter in the socket when it is not connected to your Unitech product for charging.
2. Please remove the power adapter when the battery is fully recharged.
3. The bundled power adapter that comes with your Unitech product is not meant to be used outdoors. An adapter exposed to water or rain, or a very humid environment can cause damage to both the adapter and the product.
4. Please only use the bundled power adapter or same specification of adapter to charge your Unitech product. Using the wrong power adapter can damage your Unitech product.

The message above only applies to the product connected to the adapter. For the products without using the adapters, please refer to the specification of each product

### Hearing Damage Warning

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




Figure 1 – Warning label (IEC 60417-6044)

### Worldwide Support

Unitech's professional support team is available to quickly answer questions or assist with technical-related issues. Should an equipment problem occur, please contact the nearest Unitech regional service representative. For complete contact information please visit the Web sites listed below:

Taipei, Taiwan – Headquarters		Europe	
Tel:	+886-2-89121122	Tel:	+31-13-4609292

<b>E-mail:</b>	<a href="mailto:info@hq.ute.com">info@hq.ute.com</a>	<b>E-mail:</b>	<a href="mailto:info@eu.ute.com">info@eu.ute.com</a>
<b>Address:</b>	5F, No. 136, Lane 235, Baoqiao Road, Xindian District, New Taipei City 231, Taiwan (R.O.C.)	<b>Address:</b>	Kapitein Hatterasstraat 19, 5015 BB, Tilburg, the Netherlands <a href="http://eu.ute.com">http://eu.ute.com</a>
<b>Website:</b>	<a href="http://www.ute.com">http://www.ute.com</a>	<b>Website:</b>	
<b>China</b>		<b>Japan</b>	
<b>Tel:</b>	+86-59-2310-9966	<b>Tel:</b>	+81-3-62310896
<b>E-mail:</b>	<a href="mailto:info@cn.ute.com">info@cn.ute.com</a>	<b>E-mail:</b>	<a href="mailto:info@jp.ute.com">info@jp.ute.com</a>
<b>Address:</b>	Room401C, 4F, RIHUA International Mansion, Xinfeng 3rd Road, Huoju Hi-tech District, Xiamen, Fujian, China	<b>Address:</b>	Tosei Building 3F.,18-10 Nihonbashi-Hakozakicho, Chiyodoku, Tokyo, 103-0015, Japan
<b>Website:</b>	<a href="http://cn.ute.com">http://cn.ute.com</a>	<b>Website:</b>	<a href="http://jp.ute.com">http://jp.ute.com</a>
<b>Asia &amp; Pacific / Middle East</b>		<b>Latin America</b>	
<b>Tel:</b>	+886-2-27911556	<b>Tel:</b>	+52-55-5171-0528
<b>E-mail:</b>	<a href="mailto:info@apac.ute.com">info@apac.ute.com</a> <a href="mailto:info@india.ute.com">info@india.ute.com</a> <a href="mailto:info@mideast.ute.com">info@mideast.ute.com</a>	<b>E-mail: Address:</b>	<a href="mailto:info@latin.ute.com">info@latin.ute.com</a> 17171 Park Row, Suite 210 Houston, TX 77084USA (Rep.)
<b>Address:</b>	4F., No. 236, ShinHu 2nd Rd., Neihu District, 114, Taipei, Taiwan	<b>Website:</b>	<a href="http://latin.ute.com">http://latin.ute.com</a>
<b>Website:</b>	<a href="http://apac.ute.com">http://apac.ute.com</a> / <a href="http://mideast.ute.com">http://mideast.ute.com</a>		
<b>North America</b>		<b>Please scan QR Code to visit us:</b>	
<b>Tel:</b>	+1-714-8916400		

<b>E-mail: Address:</b>  <b>Website:</b>	<a href="mailto:info@us.ute.com">info@us.ute.com</a> / <a href="mailto:info@can.ute.com">info@can.ute.com</a> 6182 Katella Ave, Cypress, CA 90630, USA <a href="http://us.ute.com">http://us.ute.com</a>	
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## Warranty Policy

The following items covered under the Unitech Limited Warranty are free from defects during normal use: The warranty period is varied from each country. Please consult with your supplier or Unitech local office for actual length of warranty period to your purchased product. Warranty becomes void if equipment is modified, improperly installed or used, damaged by accident or neglect, or if any parts are improperly installed or replaced by the user.

## Overview

### Package

Please make sure the following contents are in the RT112 gift box. If something is missing or damaged, please contact your Unitech representative.

### The Package Contents

- Tablet PC
- Battery Pack
- USB-C Power Adaptor (power cord optional)
- Quick Start Guide

### Optional Accessories

- Rotatable Hand Strap
- Shoulder Strap
- Screen Protector
- Capacitive Stylus Pen (5.5mm) with coil strap
- Office Cradle
- Vehicle Cradle
- 3-Pin EU Power Cord
- 3-Pin UK Power Cord
- 3-Pin US Power Cord

## Product Detail

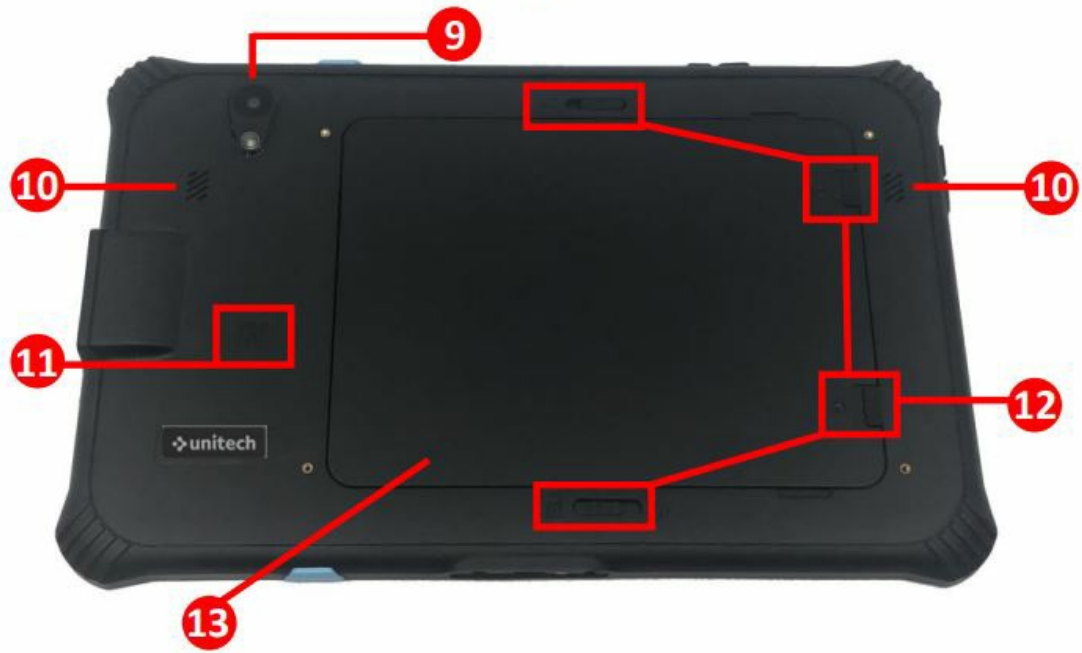


**Top View**



1. Scan Lens
2. Front Camera
3. USB Type-C Connector
4. Pogo Pin (reserved)
5. Trigger Key
6. Power Key
7. Programming Key
8. Scan Engine

### Rear View



### Bottom View

- 9. Rear Camera
- 10. Speaker
- 11. NFC
- 12. Battery Cover Lock
- 13. Battery Cover
- 14. Volume Key

### Specifications

System Features	
CPU	Qualcomm® Snapdragon™ 5430 Hexa Core Processor, 64bits, 6x CPU, up to 2.1 GHz
Memory	6GB RAM / 128 GB Flash

<b>OS</b>	Android 13 with GMS & AER Certified
<b>Languages support</b>	Multiple languages
<b>Display</b>	
<b>Screen Size</b>	10.1"(1920 x 1200) LCD Display 450nits
<b>Touch Panel</b>	Gorilla® Glass, Multi-Touch User Interface with Capacitive, stylus, glove, wet-finger Compatibility
<b>Keypad</b>	
6 Physical Buttons: Power key, Volume+/- key, programmable key and 2 scan keys	
<b>Camera</b>	
5MP front camera (with fixed focus) 13MP rear camera (with auto-focus and LED flash, Support Google Arcore & Depth API)	
<b>Indicator Type</b>	
LEDs, Vibrator	
<b>Symbologies</b>	
Support all major 1D & 2D barcodes	
<b>RFID</b>	
<b>HF</b>	Support HF/NFC ISO14443-4(Type A, Type B), ISO15693, Mifare, Felica (ISO/IEC18092)
<b>Power Source</b>	
<b>Main Battery</b>	8800mAh (removable)
<b>Regulatory Approvals</b>	

CE, UKCA, FCC, IC, NCC, BSMI, VCCI, TELEC, CCC, SRRC, BQB, RoHS, REACH	
<b>Communication</b>	
<b>Bluetooth®</b>	Bluetooth® 5.2

<b>WLAN</b>	WLAN 6E, 2.4GHz & 5GHz & 6GHz IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v/ax (MU-MIMO 2X2, Support DBS)
<b>Sensors</b>	G-sensor(Accelerometer), Proximity + Light Sensor, E-Compass, Gyroscope sensor
<b>I/O Interfaces</b>	
<b>USB</b>	Single USB 3.1 (type-C)
<b>POGO PIN</b>	POGO pin
<b>Expansion slot</b>	Single Micro SD Card
<b>Audio</b>	Dual-speakers, MIC x 2(noise cancelling & Background noise depression)
<b>Enclosure</b>	
<b>Dimensions</b>	260 mm x 165 mm x 12 mm
<b>Weight</b>	approx. 690g
<b>Environmental</b>	
<b>Operating temperature</b>	-20°C to 55°C
<b>Storage temperature</b>	– 40°C to 70°C (without battery)
<b>Drop Specification</b>	1.5 meter

<b>Vibration/Tumble test</b>	MIL-STD-810H, Method 516.8, Procedure IV
<b>Software</b>	
<b>MDM Software</b>	Support MDM Software Solutions and utilities such as Airwatch, SOTI, Ivanti Wavelink, and MoboLink

**Note:** The device is restricted to indoor use only when operating in the 5250-5350 MHz / 5945 to 6425 MHz (for LPI) frequency range.

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

## Getting Started

### Remove the Battery

1. Push the four battery cover locks upwards to the unlock position.



2. Pick the battery cover from the groove on its side and lift upward to remove.



3. Push the battery lock at the bottom to the left (unlock) and keep holding it, then pull the battery strap and lift upward to remove the battery.



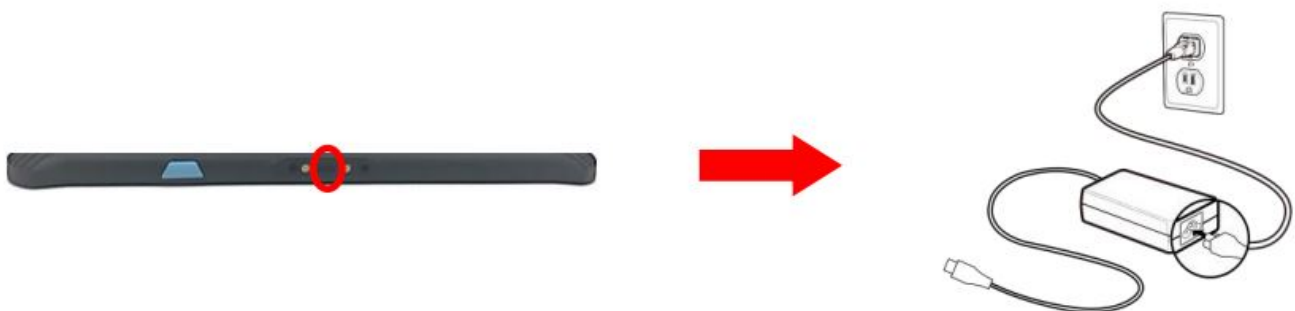
## Install the Battery

1. First, remove the battery. (please refer to step 1. & step 2. on P9 “Remove the Battery”)
2. Push the battery lock at the bottom to the left (unlock) and keep holding it, then align the battery with the battery slot and insert. Make sure you hear a “click” sound, and the battery should not fall off while the battery is being locked.



## Charging the Battery

Before starting to use the tablet, we would like to suggest you follow the illustrations below to begin to use the tablet.



**WARNING!** There is a risk of fire and burns if the battery is handled improperly. DO NOT disassemble, crush, puncture, short external contacts, or dispose the battery pack in fire or water. DO NOT attempt to open or service

the battery. Dispose of used batteries according to local recycling guidelines in your area.

**CAUTION!** To ensure the unit working properly, please keep all connectors away from the contaminants such as dust, grease, mud, and water. Negligence may cause the unit to lose communication, short circuit, or overheated. If the connector is damaged, please ensure the connector is fully repaired before using the unit to avoid short-circuiting.


Checking LED Status

	LED	Description		
			Battery charging	
	Red Light		Twinkling to indicate battery	low
Terminal			status (less than 15%)	
	Green Light		Battery fully charged	
			Barcode scan good read	
	Blue Light	Message		

**Note:** If the scanner app is running, LED is controlled by scanner app. No LED (Red and Green) display when battery is out. (even AC IN)








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Documents / Resources

	<a href="#">unitech RT112BWN Rugged Tablet</a> [pdf] User Manual RT112BWN Rugged Tablet, RT112BWN, Rugged Tablet, Tablet
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References

- [unitech Unitech Electronics](#)
- [unitech Unitech Electronics](#)
- [unitech Unitech Europe \(EMEA\) | Your Brilliant AIDC Solution Provider](#)
- [unitech unitech æ—Ÿæœ— | Your Brilliant AIDC Solution Provider](#)
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