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unitech WD200 Wearable Computer User Manual



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Revision History

Date	Change Description	Version
20250304	Initial Version	V1.0
20250415	Add Frequency Information	V1.1
20250429	Update RF Statement	V1.2
20250430	Add Frequency Information	V1.3

Preface

About This Manual

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 Warning 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.

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 5 mm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

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>

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.

In accordance with Directive 2022/2380 of the European Union, we hereby provide

specific information regarding the charging capabilities and compatible devices for the CE USB-C Adapter. This notice aims to offer essential details to purchasers for informed use and compliance with the outlined safety and performance standards.

Please note that this device supports fast charging via USB Power Delivery (USB PD), allowing for efficient charging at higher power levels when paired with compatible devices.

For reference to the detailed charging power specifications applicable to each device model, please find the link to consult our cloud-based table or scan the QR code provided below.

For detailed information on charging power specifications:

Unitech Products USB-C Charging Power Specification Overview



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>

Taiwan NCC Warning Statement

Note:

Within the 5.25-5.35 GHz band, U-NII devices will be restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations. 5GHz band (W52, W53): Indoor use only in Japan

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

Performance and Replacement

- For optimal performance, it is recommended to replace rechargeable batteries annually or after 500 charging cycles.
- It's normal for the battery to swell or expand slightly after a year or 500 cycles. This doesn't cause damage but indicates the battery should be replaced and disposed of properly according to local regulations.
- If battery performance drops by more than 20%, it has reached its end of life and should be replaced and disposed of properly.

Battery Life and Conservation

- Battery life depends on the battery type and device usage.
- Avoid fully discharging the battery as this puts stress on it. Several partial charges are better than one full discharge.
- Do NOT expose the battery or device to high temperatures for extended periods, such as in a parked car on a hot day or under direct sunlight. High temperatures can

damage the battery. Keep the device within acceptable operating temperatures (refer to the specifications).

- For long-term storage, charge the battery to at least 50% every six months. Leaving the battery uncharged for extended periods will reduce its lifespan.
- If the battery cannot be charged after a long idle period and starts to heat up, do not attempt to charge it. It may be damaged.

Important Cautions

- Use original batteries only from Unitech. Using third-party batteries can damage the device and void the warranty.
- Risk of explosion if the battery is replaced incorrectly. Dispose of used batteries according to instructions.
- RISK OF EXPLOSION IF BATTERY IS REPLACED INCORRECTLY.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Charging

- Consider temperature when charging. Charging is most efficient at room temperature or slightly cooler.
- Charge batteries within the specified range of 0°C to 40°C (32°F to 104°F). Charging outside this range can damage the battery and shorten its lifespan.
- Do not charge batteries below 0°C. This is dangerous and can make the batteries unstable. Use a battery temperature detecting device to ensure safe charging temperatures.

Maintenance and Safety

- Keep all connectors free of contaminants like dust, grease, mud, and water to ensure proper device operation. Neglecting this can cause communication issues, short circuits, or overheating.

- To clean the battery connectors:
 - o Remove the main battery from the mobile computer.
 - o Dip the cotton part of a cotton-tipped applicator in isopropyl alcohol.
 - o Gently rub the cotton part of the applicator back and forth across the connectors on both the battery and the device to remove any grease or dirt. Ensure no cotton residue is left on the connectors.
 - o Repeat this process at least three times.
 - o Use a dry cotton-tipped applicator and repeat steps 3 and 4.
 - o Inspect the area for any remaining grease or dirt and repeat the cleaning if needed.
- To clean the cradle connectors:
 - o Disconnect the DC power cable from the cradle.
 - o Dip the cotton part of a cotton-tipped applicator in isopropyl alcohol.
 - o Rub the cotton part of the applicator along the pins of the connector, moving it back and forth gently from one side to the other. Do not leave any cotton residue on the connector
 - o Rub all sides of the connector with the applicator
 - o Remove any lint left by the applicator
 - o If there is grease or dirt on other areas of the cradle, use a lint-free cloth and alcohol to clean them
 - o Allow the alcohol to air dry for at least 10 to 30 minutes (depending on the ambient temperature and humidity) before powering on the cradle

CAUTION! If you clean the battery or cradle connectors with bleach-based chemicals, follow the instructions above to remove any bleach residue from the connectors.

- If a connector is damaged, have it repaired before using the device to avoid short circuits.
- While charged batteries can be left unused for several months, their capacity may decrease due to internal resistance buildup. They may need recharging before use.
- Store batteries at temperatures between -20°C to 60°C. Higher temperatures can cause faster depletion. Room temperature storage is recommended.
- The above storage information applies only to removable batteries. For devices with non-removable batteries, refer to the product specifications.

Battery Safety Guidelines

- Charge the device in a clean area, away from debris, flammable materials, or chemicals. Take extra care when charging in non-commercial environments.
- Improper battery use can lead to fire, explosion, or other hazards.
- Do not disassemble, open, crush, bend, deform, puncture, or shred the battery.
- Dropping the device can cause the battery to overheat.
- Do not short-circuit the battery or allow metal or conductive objects to touch the battery terminals.
- Do not modify the battery, insert foreign objects, expose it to water or other liquids, or expose it to fire, explosion, or other hazards.
- Do not leave or store the device in hot areas, like parked cars or near heat sources. Do not put the battery in a microwave or dryer.
- Supervise battery usage by children.
- If swallowed, seek medical advice immediately.
- In case of leakage, avoid contact with skin and eyes. If contact occurs, flush the affected area with water for 15 minutes and seek medical advice.
- If you suspect damage to the equipment or battery, contact your service provider for inspection.

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 & Africa
Tel: +886-2-89121122 E-mail: info@hq.ute.com Address: 5F, No. 136, Lane 235, Baoqiao Road, Xindian District, New Taipei City 231, Taiwan (R.O.C.) Website: http://www.ute.com	Tel: +31-13-4609292 E-mail: info@eu.ute.com Address: Kapitein Hatterasstraat 19, 5015 BB, Tilburg, the Netherlands Website: http://eu.ute.com
Mainland China	Japan
Tel: +86-59-2310-9966 E-mail: info@cn.ute.com Address: Room401C, 4F, RIHUA International Mansion, Xinfeng 3rd Road, Huoju Hi-tech District, Xiamen, Fujian, China Website: http://cn.ute.com	Tel: +81-3-62310896 E-mail: info@unitech-japan.co.jp Address: 3F Tosei Building, 18-10, Nihonbashi-Hakozakicho, Chiyodoku, Tokyo 103-0015, Japan Website: https://jp.ute.com
Asia & Pacific / Middle East	Latin America
Tel: +886-2-27911556 E-mail: info@tw.ute.com Address: 4F., No. 236, ShinHu 2nd Rd., NeiHu Chiu, 114, Taipei, Taiwan Website: http://apac.ute.com	Tel: +52-55-5171-0528 E-mail: info@latin.ute.com Address: Av Insurgentes Sur Nro. 859-Segundo Piso Colonia Nápoles - Delegación Benito Juárez - CP03810 CDMX Website: http://latin.ute.com
North America	Please scan QRCode to visit us:
Tel: +1-714-8916400 E-mail: info@us.ute.com / info@can.ute.com Address: 6182 Katella Ave, Cypress, CA 90630, USA Website: http://us.ute.com	

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.

Chapter 1 – Overview

Please make sure the following contents are in the WD200 gift box. If something is missing or damaged, please contact your unitech representative.

The Package Contents

- WD200
- USB-C Cable
- Quick Start Guide

Optional Accessories

- 4-slot Cradle
- Ring Scanner
- Wrist Holder

1.2 Product Detail



1	Power Button	6	Pogo Pin
2	Camera & LED Flash Light	7	USB-C Port
3	Camera Button / Programmable button	8	Microphone
4	Status LED	9	Touch Panel
5	Speaker		

1.3 Specifications

System Features	
CPU	Octa Core 2x A75 2.0GHz + 6x A55 1.8GHz
Memory	4GB RAM / 64 GB Flash
OS	Android 13 with GMS Certification
Languages support	English, Simplified Chinese, Traditional Chinese, Japanese, Spanish, German, French, Italian, Portuguese, Korean and multiple languages
Display	
Screen Size	3.54" Color TFT-LCD (960 X 640) High Resolution Display (500 nits)
Touch Panel	
Ultra-sensitive capacitive touch screen, compatible with gloves and support wet resistance	
Buttons / Keypad	
ON / OFF button , 1x User-defined function button	
Indicator Type	
LED, Speaker, Vibrator	
Software	
SOTI, 42Gears, MoboLink, Airwatch	
Audio	
One 1W speaker with Smart PA	
I/O Interface	
USB	USB 2.0 (Type-C) support USB OTG
OTG	Yes, over USB-C
POGO PIN	Charging via Cradle

POGO PIN	Charging via Cradle
Communication	
Camera	16 MP Rear and Flash Light
Bluetooth®	Bluetooth® 5 supported
WLAN	WiFi 6 (2x2 MIMO) IEEE 802.11 ax/a/b/g/n/ac/d/h/i/k/r/v, IPv4, IPv6 Security of Wi-Fi: WEP, WPA/WPA2 PSK, 802.1x EAP, OWE, SAE Fast Roaming: PMKID caching, 802.11r, OKC 2x2 MU-MIMO

GPS	GPS, GLONASS, Gallileo, Beidou
Sensor	Gyroscope, G-sensor, E-Compass, Light Sensor
RFID	
HF	Support HF/NFC Frequency 13.56Mhz Support: ISO14443A/B, ISO15693 standard
Power Source	
Main Battery	3.85V, 2500mAh Li-polymer battery (embedded, can be repaired)
Enclosure	
Weight	123g (with battery)
Dimensions	96.7mm X 60.7mm X 14.43 mm (H x W x D)
Environmental	
Operating Temperature	-4°F to 122°F (- 20°C to 50°C)
Storage Temperature	-4°F to 158°F (-20°C to 70°C)
Charging Temperature	32°F to 113°F (0°C to 45°C)
Relative Humidity	5% ~ 95% (non-condensing)
Drop Test to Concrete	1.5 meter
Environmental Sealing	IP68
Tumble Test	MIL-STD 810G / 1000 tumbles @ 1.6 ft./0.5 m

Note:

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz 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
	IS	LI	NO	CH	TR		

Transmitter Frequency:

BT: 2402-2480MHz

BLE: 2402-2480MHz

2.4G Wi-Fi: 2412-2472MHz

5G Wi-Fi: 5150-5250 MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz NFC:
13.56MHz

Receiver Frequency:

BT: 2402-2480MHz

BLE: 2402-2480MHz

2.4G Wi-Fi: 2412-2472MHz

5G Wi-Fi: 5150-5250 MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz NFC:
13.56MHz

GPS L1 C/A, BDS B1I, GLONASS G1, Galileo E1: 1559-1610MHz

RF-Output Power: (ERP/EIRP/Conducted)

BT: 7.46dBm

BLE: 7.69dBm

2.4G Wi-Fi: 17.50dBm

5G Wi-Fi:

5150-5250MHz: 19.71dBm

5250-5350MHz: 19.99dBm

5470-5725MHz: 19.97dBm

5725-5850MHz: 12.67dBm

NFC: 16.93dBuA/m @ 3m

1.4 Getting Started**1.4.1 Charging the Battery**

To charge the WD200, connect the included USB-C cable to the USB-C port on the device. Plug the other end of the cable into an AC power adapter. For optimal performance, it is recommended to use only the USB-C cable provided with the WD200 or a Unitech-designed charging cradle.



CAUTION!

DO NOT force opening the battery cover and attempting to change the battery as you may damage the product and the battery, it is built-in and is not user changeable. Any batteries inappropriate use could result in damage or safety issues such as catching fire, or malfunctioning the sensitive components.

Unitech reserves the right and disclaims any liability as a result of any damages caused by ignoring this warning. To avoid any consequential damages, please contact a unitech representative before removing the battery.

DO charge between 20% and 80% to protect your battery.

Avoid full discharges (<0%) or charging all the time (always 100%) to reduce stress on the battery.

1.4.2 Turning on the terminal for the first time

It is recommended to fully charge WD200 before first use. You can now start up your device to set up the languages, WLAN setting, and date and time.

Power Button

Turn ON your device by pressing the power button on the terminal.



1.4.3 Checking the LED status

Terminal	LED	Description
	Red Light	<ul style="list-style-type: none">■ Battery Charging■ Flashing to indicate battery low status (less than 15%)
	Green Light	<ul style="list-style-type: none">■ Battery Fully charged
	Blue Light	Message


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Documents / Resources

	<p>unitech WD200 Wearable Computer [pdf] User Manual</p> <p>HLEWD200BWN, wd200bwn, WD200 Wearable Computer, WD200, Wearable Computer, Computer</p>
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References

- [User Manual](#)

Computer, HLEWD200BWN, unitech, WD200, WD200 Wearable Computer, wd200bwn, Wearable

unitech Computer

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