unitech

Rugged Tablet

- TB170 -

User Manual

Version 1.4

Revision History

Date	Change Description	Version
2023/3/22	First Published Version	1.0
2023/8/22	Add Glove Mode Instruction	1.1
2024/4/26	Update Product View & Add Detachable Plate Information	1.2
2024/7/10	Update Specification Descriptions	1.3
2024/7/11	Update Specification Descriptions	1.4

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.

NOTE
1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shield interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

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.

FCC/IC RF Radiation Exposure and SAR Statements

The TB170 has been tested for body-worn Specific Absorption Rate (SAR) compliance. The FCC/IC has established detailed SAR requirements and has established that these requirements. This model meets the applicable government requirements for exposure to radio frequency waves. The highest reported SAR level for usage near the body (0mm) is 0.97 W/kg, and for the simultaneous transmission is 1.51W/kg.

IC Statements

This device complies with Industry Canada 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) il ne doit pas produire de brouillage et

(2) l' utilisateur du dispositif doit étre prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fomctionnement du dispositif.

▶ This Class B digital apparatus complies with Canadian ICES-003.

▶ Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

CE Conformity

C€ This device is in compliance with the essential safety requirements and other relevant provisions set out in the European Directive.

Battery Regulations

	European Union: Batteries, battery packs, and accumulators should not be disposed of as unsorted household waste. Please use the public collection system to return, recycle, or treat them in compliance with the local regulations.
廢電池請回收	Taiwan: For better environmental protection, waste batteries should be collected separately for recycling or special disposal.
California, USA: The button cell battery may contain perchlorate material and requires special handling when recycled or disposed of in California. For further information please visit: http://www.dtsc.ca.gov/hazardouswaste/perchlorate/	
Safety Guideline for Using Lithium Battery Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.	

WEEE Statement
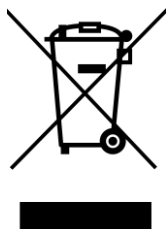
European Union: Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2002/96/EC, which takes effect on August 13, 2005, products of "electrical and electronic equipment" cannot be discarded as municipal waste anymore and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life.

SAFE	Read the safety instructions carefully and thoroughly. All cautions and warnings on the equipment or user's manual should be noted.
	Keep this equipment away from humidity and high temperature.
	Lay this equipment on a stable surface before setting it up.
	The openings on the enclosure are used for air convection and to prevent the equipment from overheating. Do not cover the openings.
	・Do not leave the equipment in an unconditioned environment with a storage temperature above 60ºC (140ºF) or below -20ºC (-4ºF), which may damage the equipment. ・This unit should be operation under maximum ambient temperature of 50ºC (120ºF) or under 60ºC (140ºF) for light loading applications.
	Followings are requirements of battery storage: ・ If the storage duration is within 3 months, please remain the temperature at -20 ℃~45 ℃ ; If the storage duration is above 3 months but within 1 year, please remain the temperature at

	23℃±2℃ . ・ The battery capacity should remain at 30 ± 5%. ・ The storage humidity should remain at 65 ± 25%RH. ・ The battery charging temperature should be 10 ℃ ~45 ℃, the discharging temperature should be -20℃~60℃ . ・ For the maximum battery discharging performance, please remain the storage temperature at 25℃ . ・ Do not charge the battery while the room temperature is over 40℃

Tablet

	・Make sure the power voltage is within safety range and has been adjusted properly to the value of 100~240V before connecting the equipment to the power outlet. ・Always unplug the AC power cord before installing any add-on card or module to the equipment. ・Always disconnect the AC power cord or uninstall the battery pack or switch off the wall socket if the equipment would be left unused for a certain time to achieve zero energy consumption.
	Place the power cord in a way that people are unlikely to step on it. Do not place anything on top of the power cord.
	Always keep the strong magnetic or electrical objects away from the tablet.
	Never pour liquid into the opening that could damage the equipment or cause an electrical shock.
	If any of the following situations arises, get the equipment checked by service personnel: ・The power cord or plug is damaged. ・Liquid has penetrated into the equipment. ・The equipment has been exposed to moisture. ・The equipment has not worked well or you can not get it work according to User's Manual. ・The equipment was dropped and damaged. ・The equipment has obvious signs of breakage.
	Green Product Features Environmental Policy ・The product has been designed to enable proper reuse of parts and recycling and should not be thrown away at its end of life. ・Users should contact the local authorized point of collection for recycling and disposing of their end-of-life products.

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
E-mail:	info@hq.ute.com	**E-mail:**	info@eu.ute.com
Address:	5F, No. 136, Lane 235, Baoqiao Road, Xindian District, New Taipei City 231, Taiwan (R.O.C.)	**Address:**	Kapitein Hatterasstraat 19, 5015 BB, Tilburg, the Netherlands
Website:	http://www.ute.com	**Website:**	http://eu.ute.com
China		**Japan**	
Tel:	+86-59-2310-9966	**Tel:**	+81-3-35232766
E-mail:	info@cn.ute.com	**E-mail:**	info@jp.ute.com
Address:	Room401C, 4F, RIHUA International Mansion, Xinfeng 3nd Road, Huoju Hi-tech District, Xiamen, Fujan , China	**Address:**	Kayabacho Nagaoka Building 8F.,1-5-19 Shinkawa, Chuo-Ku, Tokyo, 104-0033, Japan
Website:	http://cn.ute.com	**Website:**	http://jp.ute.com
Asia-Pacific/Middle East		**Latin America**	
Tel:	+886-2-27911556	**Tel:**	+52-55-5171-0528
E-mail:	info@apac.ute.com info@india.ute.com info@mideast.ute.com	**E-mail:**	info@latin.ute.com
		Address:	17171 Park Row, Suite 210 Houston, TX 77084USA (Rep.)
Address:	4F., No. 236, ShinHu 2nd Rd., NeiHu Chiu, 114, Taipei,Taiwan	**Website:**	http://latin.ute.com
Website:	http://apac.ute.com / http://mideast.ute.com		
North America		**Please scan QR Code 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.

Table of Contents

Chapter 1 - Overview

1.1 Package

Please make sure the following contents are in the TB170 gift box.
If something is missing or damaged, please contact your Unitech representative.

The basic package contents

- TB170 Tablet PC (with Detachable Plate)
- AC/DC adaptor and AC Power Cord (US)
- Battery Pack
- Quick Start Guide

Optional accessories

- Hand Strap
- Shoulder Strap
- EETI Digitizer Pen, B type
- Brief Case Handle
- Office Dock
- Vehicle Dock

1.2 Product Detail

This section provides the description of basic aspects of the Tablet PC. It will help you to know more about the appearance of this tablet before using it. Please be aware that the figures shown here are for reference only.

Open View

The figure of open view and description shown below will lead you to browse the main operating area of your Tablet PC.

1. **Front Camera**

    This built-in front camera can be used for picture taking, video recording or conferencing, and any other interactive applications.

2. **Status LED**

⏻	**Power** ・LED glows when the tablet is turned on. ・LED flashes when the tablet goes to the sleep state. ・LED goes off when the tablet is turned off.
📡	**Wireless LAN (WiFi)** ・LED glows when WLAN (WiFi) function is enabled. ・LED goes off when this function is disabled.
🔋	**Battery Status** ・LED glows when the battery is being charged.

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	・LED goes out when the battery is fully charged or when the AC/DC adapter is disconnected. ・LED blinks slowly when battery capacity is lower than 7%. ・LED blinks fast when battery error.

3. Touch Screen

Whenever the display is rotated, the touch screen will be rotated and expanded to fit the display automatically.
(NOTE: This function will be changed depends on the user's settings.)

4. Internal Microphone

This is the built-in microphone and its function is the same with microphone.

Top Side View

1. Power Button

・Before powering on the Tablet PC for the very first time, you must connect it with AC power.
・Press and hold the power button for 8 seconds can shut down the Tablet.

2. Barcode Scanner (optional)

Easy handheld device for tracking goods from production to loading in the warehouse to ensure shipping and Real-time order status.

Right Side View
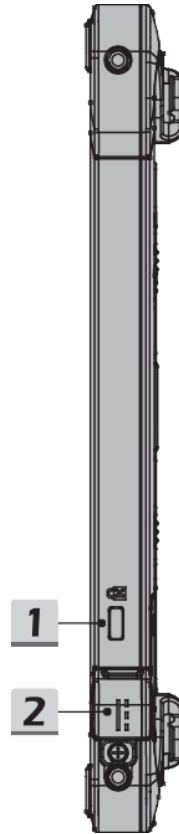
1. **Kenshington Lock**
   This tablet provides a Kensington lock hole, which allows users to secure the tablet in place.

2. **DC-in Jack**
   It is an electrical connector for supplying direct current (DC) power.

Left Side View
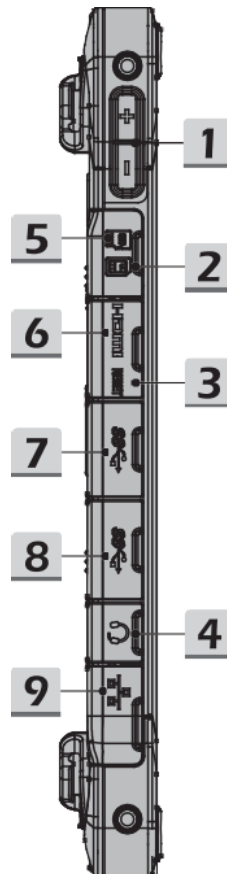
1. **Volume Up +/ Volume Down ━ Button**

   Press the Volume Up or Volume Down button to adjust the sound volume.

2. **Nano SIM Card Reader**
   The built-in card reader supports various types of 4G/LTE.

3. **Reset Hole**
   If the Tablet PC cannot be turned off normally or no respond by pressing the power button for 8 seconds, insert a straightened paperclip to the hole. (NOTE: In this case, AC power must be connected before restarting the tablet.)

4. **Headphone Jack**
    Used for connecting the speakers or headphones.

5. **Micro SD Card Reader**
    The built-in card reader supports SD card.

6. **Micro HDMI Port**
    Micro HDMI (High-Definition Multimedia Interface) technology is the industry-leading interface and de-facto standard connecting high-definition (HD) equipment.

7. **USB 3.1 Gen 1 Port**
    USB 3.1 Gen 1, the SuperSpeed USB, supports high-speed data transfer for the connected devices, such as storage devices, hard drives, or video cameras.

8. **USB 3.1 Gen 1 Port (Type-C)**
    USB 3.1 Gen 1, the SuperSpeed USB, supports high-speed data transfer for connected devices, such as storage devices, hard drives, or video cameras.
   The slim and sleek USB Type C connector offers reversible plug orientation, and supports 5V/1.5A portable charging power when AC power is connected. However, the maximum portable charging power limitation may up to 5V/1.5A while battery DC power is connected.

9. **RJ-45 Connector**
    The Ethernet connector, with bandwidths 10/100/1000 Mbps, is used to connect a LAN cable for network connection.

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Rear Side View

The figure of open view and description shown below will lead you to browse the main operating area of your Tablet PC.
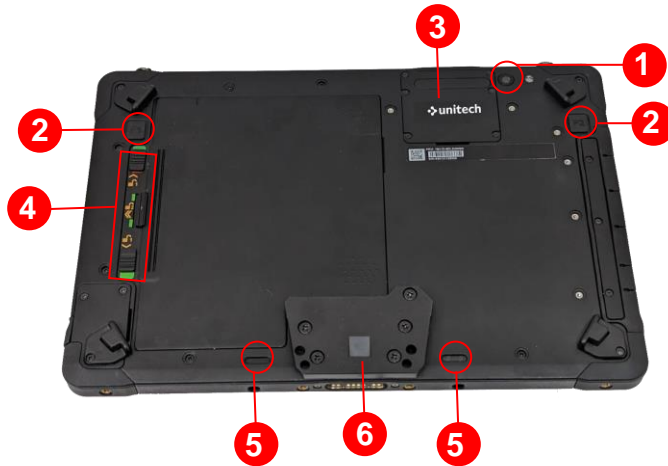
1. **Rear Camera**

   This built-in rear camera can be used for picture taking, video recording or conferencing, and any other interactive applications.

2. **Fn Function**

   ・F1: programmable function key and default setting is Barcode Scanner trigger function. (optional)

   ・F2: User Defined programmable function key.

3. **LTE & Barcode Assembly Door**

   Used for connecting the speakers or headphones.

4. **Battery Latch**

   To lock/unlock battery.

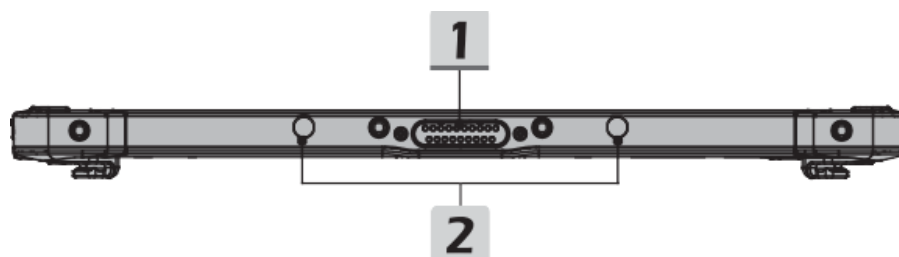   ・Note: the battery latch should be locked properly to turn on the panel.

5. **Speaker**

6. **Detachable Plate**

   You can attach the kickstand (PN#5200-900015G) and snap mount (PN#4070-900015G) using the detachable plate.

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Bottom Side View

1. **Dock Connector**

   Connect with external Docking Station to increase more I/O functions.

2. **Boss Hole**

   Used for locking the boss hole of the dock.

1.3 Specifications

System Features	
CPU	2.6Ghz, Intel® Gemini Lake-R Celeron N4120
Memory	LPDDR4 8GB on Board / 128GB eMMC
Operation System	Windows 11 Enterprise
Expansion Slot	Docking connector RJ45 Gigabit Ethernet Port Replaceable DC jack Micro HDMI SDXC Card Reader [Micro] Reset hole
Others	TPM (Trusted Platform Module) 2.0 support
Display	
Screen Size	10.1" (1920 x 1200) IPS 800 nits Sunlight Readable
Touch Panel	10-point multi-touch, support glove mode and wet-touch mode
Buttons/Keypad	
5 Physical Buttons [power, vol+, vol-, -2 programmable keys]	
Camera	
2MP front camera [Optional Windows Hello Camera] 8MP rear camera, Auto Focus, Flash	
Indicator	
LEDs, Vibrator	

Android is a trademark of Google LLC.

Comes with the Google™ app and Google Chrome™

Symbologies	
Optional 1D/2D Barcode Reader	
Communication	
Bluetooth®	Bluetooth® 5.2 supported
WLAN	Wi-Fi 6 [802.11ax] (2X2 MIMO)
GPS	GPS/GLONASSS/GALILEO
Sensors	9 Axis MEMS sensor [Accelerometer, eComass, Gyroscope] Ambient Light Sensor Proximity Sensor
I/O Interfaces	
USB	USB 3.1 Type A x 1 USB 3.1 Type C x 1
POGO PIN	POGO pin
Expansion Slot	Docking connector RJ45 Gigabit Ethernet Port Replaceable DC jack Micro HDMI SDXC Card Reader [Micro] Reset hole
Audio	Microphone, speaker and 3.5mm audio jack
Power Source	
Main Battery	Battery: 7.68V, 4300mAh / 32Wh Backup Battery: 7.4V, 142mAh / 1.05Wh Hot-swappable Battery Operation: up to 9 hours
Regulatory Approvals	
CE, FCC, BSMI, NCC	
Enclosure	
Weight	990g
Dimension	283mm x 192mm x 15mm

| Environmental	
Operating Temperature	-10°C to 50°C
Storage Temperature	- 20°C to 60°C (without battery)
Relative Humidity	5% ~ 95%
Durability	
Drop Specification	1.5m
Sealing	IP65
Vibration/ Tumble test	MIL-STD 810G
Accessories	
- Shoulder Strap - Hand strap - EETI Digitizer Pen, B type - Vehicle Docking - Office Docking - Brief Case Handle	

1.4 Getting Started

1.4.1 How to Remove the Detachable Plate?

1. Loosen each screw with a screw driver. Store components in a cool environment.

1.4.2 How to Install the Detachable Plate?

1. Turn TB170 to the rear side and align the detachable plate with each hole. Then, secure the plate with a screwdriver.
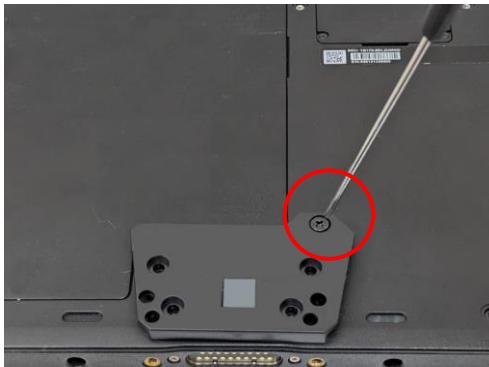
1.4.3 Set Up Accessories with the Detachable Plate

You can attach the kickstand and snap mount using the detachable plate.

	Set Up on Kickstand (PN#5200-900015G)	Set Up on Snap Mount (PN#4070-900015G)
Image		

1.4.4 How to Manage Power Supply?

This section provides users basic safety precautions to take when using an AC/DC adapter and battery power properly.

AC/DC Adapter

Ensure that your notebook is connected to an AC power source via the AC adapter before turning it on for the first time. If the notebook automatically shuts down due to low battery power, it is likely to cause system failure. Below are some Dos and Don'ts of an AC/DC adapter.

▶ Dos
- Use the adapter that shipped with your notebook only.
- Always be aware of heat coming from the in use AC/DC adapter.
- Unplug the AC power cord before disassembly the notebook.

▶ Don'ts
- Cover an in-use adapter since it can generate heat.
- Have the AC power cord plugged after powering off the system when the notebook is going to be left unused for a longer time.

1. Take up the interchangeable plug and look for the groove on the interchangeable plug which can be used for locking on the AC/DC adapter. Then align the groove of the interchangeable plug on the tenon of the AC/DC adapter with correct orientation. Next, rotate the interchangeable plug 90 degrees clockwise until it is fixed on the AC/DC adapter.

2. Plug the DC end of the AC/DC adapter into the DC-in jack of the Tablet PC.

3. Then plug the AC/DC adapter into the power outlet.

4. When remove, please follow the steps 3, 2, and 1.

   (NOTE: The interchangeable plug may vary depending on countries or regions.)

1.4.5 How to setting the touch panel to the glove mode?

The Glove Mode app in the system tray is hidden on Windows 11. You can find hidden icons by clicking the up arrow icon in the taskbar notification area.

The flyout menu that displays hidden icons is the taskbar corner overflow menu. Please refer to the image below:

Please double-click the eGalax Touch Control icon, and the Touch Control menu will pop up on the screen. From there, you can choose the Glove mode.

Please refer to the image below: