Newland | Enabling the Digital Transformation of Commerce.

U200 Unattended Terminal

Quick Reference Guide

Accessories

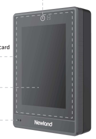
- Please check the items when you receive the product and if there is anything defective or missing, please contact your terminal provider.

Introduction

- This is an all in one Unattended terminal based on Android OS. For multiple single scenarios of consumer products, such as gas stations, high-speed payment, parking lots, etc. Multiple peripherals connectivity to flexibly fulfill various business demands. Support waterproof, dustproof and explosion-proof capabilities.
- Read this guide to understand and make the best use of your terminal. It presents you the necessary information about use, installation, maintenance, safety and security recommendations.

WARNING:
Maintenance should only be provided by Newland authorized technician. Failure to comply with these instructions will void the manufacturer's responsibility.

Overview of the Terminal



(4G)

(WF)

Installation

- **Recommendations**
  1. Avoid a position that exposes the U200 to extremely cold and hot zones.
  2. Avoid water spray areas, especially corrosive environments.
  3. Avoid a position that exposes the display to direct sunlight.
  4. The back of the terminal in the installation area should be sealed and kept dry.
  5. Avoid the shielding area of the metal cover to ensure that the WIFI / BT antenna signal is not affected. And U200 must not be installed inside a metal shield.
  6. When the proximity sensor is used to wake up the device, objects around the device must not move frequently. Otherwise, the device will wake up frequently in the sleep state.

  If you have a need for more detailed installation instructions, please contact terminal provider.

- **Environment condition**

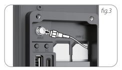
Operating temperature	-4°F to 158°F (-20°C~70°C)
Storage and transportation temperature	-22°F to 158°F (-30°C~70°C)
Relative humidity	5%~95% non-condensing

Installing SAM/SIM

- **Step 1**: Turn the terminal face down .(fig.1)
- **Step 2**: According to the SIM/SAM card position of the engraved marks or pasted on the lower housing, load the required cards. Be sure to put the cut corner as indicated on the engraved or pasted marks. (fig .2)

  Tips: SIM card is optional configuration.
- **Step 3**: Replace the SAM&SIM card cover and turn the terminal face up.
- **Warning**
  Please turn off the terminal before installing the SIM card.

Antenna Installation



- **Step 1**: Turn the terminal face down, and take out the matching rod antenna in the box.
- **Step 2**: Insert the screw end of the rod antenna into the position of the wireless SMA connector, tighten the screw cap of the rod antenna. (hg .3)
- **Step 3**: Turn the terminal face up.

Switching on/off the Terminal

- This terminal will power on automatically once connected to the power supply; screen will turn to standby mode if not used for a long time. the screen brightness will turn low. you can touch the display to restore the screen brightness and back to the normal mode.

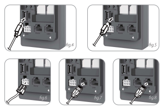
Laser sensor

- This function can detect the human body near the device from a distance, so as to actively wake up the device in a sleeping state. (Detection range 0~1.1m)

Reading Card

Contactless card
Bring the card firmly up to the RFID active zone and keep the card close to the reader during the transaction. The 4 virtual LEDs on the top of the screen will indicate the status during the transaction.

External Connections



- 1. Connect the U-disk (fig.4) for communication.
- 2. Connect to PC (fig.5) for application download.
- 3. Connect the power source (fig.6) for power supply.
- 4. Connect the Pinpad (fig.7) for the external password keyboard.
- 5. Connect the Ethernet cable (fig.8) for WAN communication.
- 6. If you need to connect other peripherals, please contact terminal provider.

Warning:
Do not connect any peripheral equipment that has not been authenticated by Newland to avoid damage.

Safety

- 1. Please be sure to take to comply with the specifications in this document.
- 2. Do not use in proximity of potentially flammable gases or substances.
- 3. Do not disassemble the terminal and power adapter.
- 4. Cut off the power immediately, when there is unusual smell, overheating or smoke.
- 5. Do not use in a near water or humid environment to prevent liquid from entering the device.
- 6. Do not use the terminal in extremely cold and hot zones, such as near a fire.
- 7. Do not drop, throw or bend the device.
- 8. Use in clean environment to avoid entry of small objects into POS terinal.
- 9. Do not use near hospital equipment without permission.
- 10. Do not use terminals with radio communication on and near the aircraft, or in any other place where radio communication is prohibited.
- 11. Device needs to be installed at a height of no more than two meters.

Security of Your Terminal

Your device fulfills current applicable PCI PTS security requirements. Upon receipt your terminal you should check for signs of tampering of the equipment. It is strongly advised that these checks are performed regularly after receipt (Be sure the circumstance is brightness or you may use a light tool as well).

- 1. Check the product name and the hardware versionon the label to ensure the product is correct.
- 2. Check the appearance of the product to guarantee the device without being modified.
- 3. Before entering the PIN, the user should be aware of his/her surrounding and use the body, fingers or protection to block the peeper's sight.

Standards

- **CE Marking**

  The CE marking indicates U200 complies with the requirements of European Directive 2014/53/EU of 16 April, 2014 on Radio and Telecommunications Terminal Equipment for:
  1. The protection of the health and the safety of the user and any other person.
  2. The protection requirements with respect to electromagnetic compatibility.

For CE Exposure Statement:
This equipment should be installed and operated with minimum distance 30cm the radiator& your body.

Accessibility Features Description:
1. Accessibility Statement: This product complies with the accessibility directive and EN 301 549 requirements;
2. Terminal needs to be installed at a height of 100cm above the ground;
3. This product is an unattended terminal. The payment app is required to have a "Normal Payment Mode" and an "Accessibility Payment Mode", guiding users to conduct transactions through visual, auditory and tactile means. If the customer installs the payment software by themselves, the content shall meet the requirements of accessibility instructions.
4. Brief description of the Accessibility Payment Mode: The payment operation is guided by the tactile points of the physical silicone buttons and voice prompts. At the same time, the touch screen supports sliding selection and double-click confirmation. For example, the password keyboard uses a standard telephone layout, with 1, 2, and 3 at the top, and Cancel, Clear, and OK across the bottom, and the tactile points on the outside indicate the middle position of the row or column. There are two points in the row and column where the number 5 is located. Use the tactile markings to determine the position of the number, slide your finger on the screen, use the beep to find the desired number, and double-click to confirm the input.

- **Operating Frequency Band(RF-4G)(Only for CE)**

Transmitter Frequency	E-GSM 900: 880-915MHz DCS 1800: 1710-1785MHz WCDMA B1: 1920-1980MHz WCDMA B5: 824-849MHz WCDMA B8: 880-915MHz LTE Band 1: 1920-1980MHz LTE Band 2: 1850-1910MHz LTE Band 3: 1710-1785MHz LTE Band 4: 1710-1755MHz LTE Band 5: 824-849MHz LTE Band 7: 2500-2570MHz LTE Band 8: 880-915MHz LTE Band 20: 832-862MHz	LTE Band 28: 703-748MHz LTE Band 38: 2570-2620MHz LTE Band 40: 2300-2400MHz LTE Band 41: 2496-2690MHz BT/BLE: 2402-2480MHz Wi-Fi 2.4G: 2412-2472MHz, 2422-2462MHz 5.2G WiFi: 5150-5250MHz 5.3G WiFi: 5250-5350MHz 5.6G WiFi: 5470-5725 MHz 5.8G WiFi: 5725-5850MHz NFC: 13.56MHz
Receiver Frequency	E-GSM 900: 925-960MHz DCS 1800: 1805-1880MHz WCDMA B1: 2110-2170MHz WCDMA B5: 869-894MHz WCDMA B8: 925-960MHz LTE Band 1: 2110-2170MHz LTE Band 2: 1930-1990MHz LTE Band 3: 1805-1880MHz LTE Band 4: 2110-2155MHz LTE Band 5: 869-894MHz LTE Band 7: 2620-2690MHz LTE Band 8: 925-960MHz LTE Band 20: 791-821MHz LTE Band 28: 758-803MHz	LTE Band 38: 2570-2620MHz LTE Band 40: 2300-2400MHz LTE Band 41: 2496-2690MHz BT/BLE: 2402-2480MHz Wi-Fi 2.4G: 2412-2472MHz, 2422-2462MHz 5.2G WiFi: 5150-5250MHz 5.3G WiFi: 5250-5350MHz 5.6G WiFi: 5470-5725 MHz 5.8G WiFi: 5725-5850MHz NFC: 13.56MHz GPS L1 C/A, BDS B1I, Galileo E1, SBAS L1: 1559-1610MHz
RF-Output Power ERP/EIRP/Conducted	E-GSM 900: 33.12dBm DCS 1800: 30.47dBm WCDMA : 24.38dBm (B1),23.49dBm(B5),23.42dBm(B8) LTE : 24.34dBm(B1), 22.3dBm(B2), 24.25dBm(B3), 22.4dBm(B4), 24.05dBm(B5), 24.40dBm(B7), 23.56dBm(B8), 23.49dBm(B20), 24.03dBm(B28), 24.41dBm(B38), 24.09dBm(B40), 24.37dBm(B40) BLE: 0.9dBm BT: 9.97dBm 2.4G Wi-Fi: 18.1dBm WiFi 5.2G: 17.16dBm, 5.3G: 18.81dBm, 5.6G: 18.97dBm WiFi 5.8G: 13.93dBm NFC: 17.10dBµA/m@3m	

- **Operating Frequency Band(RF-WF)(Only for CE)**

Transmitter Frequency	BT/BLE: 2402-2480MHz Wi-Fi 2.4G: 2412-2472MHz, 2422-2462MHz 5.2G WiFi: 5150-5250MHz 5.3G WiFi: 5250-5350MHz 5.6G WiFi: 5470-5725 MHz 5.8G WiFi: 5725-5850MHz NFC: 13.56MHz
Receiver Frequency	Wi-Fi 2.4G: 2412-2472MHz, 2422-2462MHz 5.2G WiFi: 5150-5250MHz 5.3G WiFi: 5250-5350MHz 5.6G WiFi: 5470-5725 MHz 5.8G WiFi: 5725-5850MHz NFC: 13.56MHz BT/BLE: 2402-2480MHz
RF-Output Power ERP/EIRP/Conducted	BLE: 1.97dBm BT: 10.55dBm 2.4G Wi-Fi: 18.93dBm WiFi 5.2G: 15.91dBm, 5.3G: 18.09dBm, 5.6G: 17.81dBm WiFi 5.8G: 13.98dBm NFC: 8.08dBµA/m@3m

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

In all EU member states, operation of 5150-5350MHz is restricted to indoor use only.

Troubleshooting

- **I. U200 not powering on**
  1. Please make sure using Product-matched power supplies.
  2. Verify that DC power is correctly applied to the MDB connection or adaptor cable that the power supply is came with the product.
- **II. Can't read the RFID card**
  1. Check does the card used support RFID funcation.
  2. Check the card correctly placed in the RFID sensing area or not.

FCC Compliance Statements

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.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user' s authority to operate the equipment.

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 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.

IC Compliance Statements

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada' s licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L' émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d' Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L' exploitation est autorisée aux deux conditions suivantes :
(1) L' appareil ne doit pas produire de brouillage;
(2) L' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

The device for operation in the band 5150–5350 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

le dispositif utilisé dans la bande 5150-5350 MHz est réservé à une utilisation en intérieur afin de réduire le risque de brouillage préjudiciable aux systèmes mobiles par satellite dans le même canal.

ID code	HVIN
FCC ID: 2AM6U-NAU200 IC: 25226-NAU200	U6_33_01_00_00 U6_33_03_00_00
FCC ID: 2AM6U-WFU200 IC: 25226-WFU200	U6_33_00_00_00 U6_33_02_00_00

Note: All other functions of the two versions are the same. The differences lie in 4G and Sensor.

RF Exposure Compliance

This equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps. Cet émetteur ne doit pas être colocalisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

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