

User Manual

Thank you very much for choosing Dreamtek products, please read this manual before deployment so that you could know the performance better. Please keep this manual for your reference.

Our company will try best to adopt new technologies, new components, new software to improve products. The features, functions and operations described in this document may be different from the performance of the selling products, in some cases, the images are prototype. Please inquiry the company or agent for appropriate update.

The device should be installed by after sale service personnel. Our company shall not be liable for any consequences arising from unauthorized changes to the equipment, replacement of the connected equipment and cables which are not specified.

The User Manual applies to Model D1, D1 IN.

Dreamtek Intelligent Technology Co., Ltd, reserves the right to change product technical specification without prior notice.

FCC Regulations

1. 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.
2. 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:
 - (1) Reorient or relocate the receiving antenna.
 - (2) Increase the separation between the equipment and receiver.
 - (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - (4) Consult the dealer or an experienced radio/ TV technician for help.
3. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

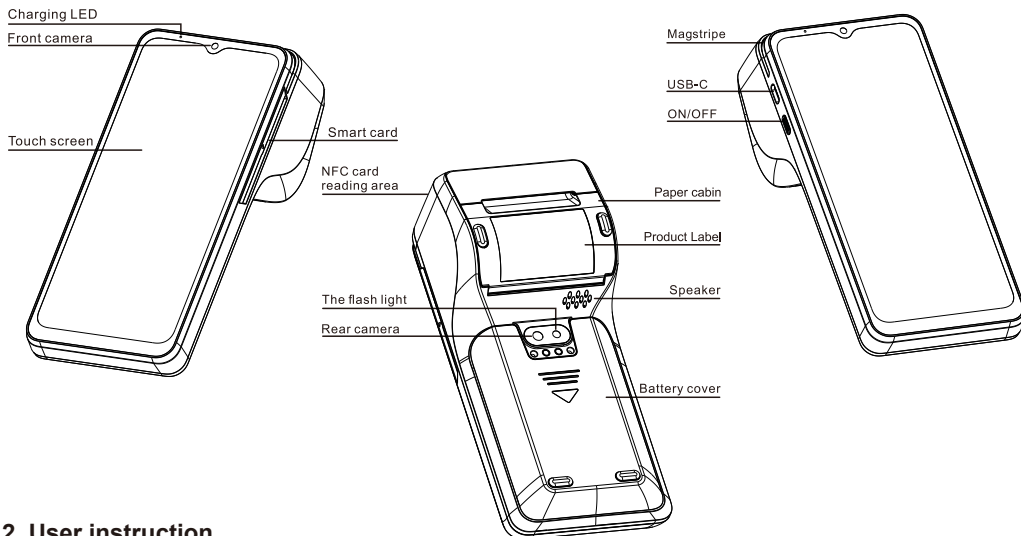
Radio Frequency (RF) Energy

1. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the United States.
2. The exposure standard for wireless devices employing a unit of measurement is known as the Specific Absorption Rate, or SAR. The SAR limit recommended by the general public is 1.6W/kg Averaged over one gram of tissue by IEEE Std 1528.
3. The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirements. SAR compliance for body-worn operating configurations is limited to the specific configurations tested for this filing. Body-worn must provide at least 0mm separation between the device and the body of the user. End-users must be informed of the body-worn operating requirements for satisfying RF exposure compliance.
4. The highest reported SAR for body-worn accessory and simultaneous transmission use conditions is 1.404W/kg and 1.404W/kg respectively.
5. This device is restricted to indoor use only when operating in 5150 to 5250MHz frequency range.

Notice for FCC Operating Frequency and Output Power

| Band | Power |
|---------------|---------------|
| GSM850 /1900 | 32.5/29.5 dBm |
| UMTS Band V | 23 dBm |
| LTE B2 /5 | 23 dBm |
| LTE B7 /38/41 | 22.5 dBm |
| WIFI 2.4G | |
| 802.11b | 17 dBm |
| 802.11g | 16 dBm |
| 802.11n | 15 dBm |
| WIFI 5G | |
| 802.11a/n/ac | 15 dBm |
| BT BR/EDR | 10 dBm |
| BLE | -2dBm |
| NFC | 50.297 dbuv/m |
| SAR | 2.961 W/kg |


1. Overview



2. User instruction

2.1 ON/OFF instruction

POWER ON: press "  " ON/OFF button for 3 seconds.

POWER OFF: press "  " ON/OFF button for 3 seconds and then click " power off " on the screen.

2.2 Magnetic stripe card

Put the magnetic card into the magnetic card slot to read it, with magnetic side towards the printer. Keep the card smooth, steady when swiping the card.

2.3 Smart card

Insert smart card into the smart card slot, with the metal pads of the smart card facing up, please refer to card identification.

2.4 Contactless card

Tab the contactless card near the contactless card reader zone on the device, to make contactless card transaction.

Put one contactless card one time to avoid conflation.

2.5 Charging

Connect the USB-C cable to POS terminal, connect the other end of the cable to the dedicated power to charge the terminal.

3. Terminal specification

| Item | Specification |
|------------------|---|
| Product | D1 |
| Model Name | D1, D1 IN |
| CPU | 64-bit high performance CPU |
| Memory | 2GB RAM + 32GB ROM Flash Optional, RAM up to 4GB, Flash up to 64GB |
| Operating System | VanOS secure payment system, based on Android 14.x |
| Display | 6.517 inch IPS, 1600*720 Optional, 5 inch IPS, 1280*720 |
| SD | Micro-SD card, up to 128GB |
| Connectivity | 4G/3G/2G, WiFi, BT, GPS |
| Touch Screen | Capacitive touch screen |
| Smart card | Conform to ISO7816, EMV level 1 & 2 |
| Magnetic Stripe | Support ISO7811, 3 tracks |
| Contactless | Conform to ISO/IEC 14443 Type A&B, Mifare |

| Item | Specification |
|-----------------------|---|
| Rear camera | 2MP AF, with flash light; Optional 5MP AF, with flash light |
| Front camera | Optional, FF 2MP |
| Physical interface | USB-C (OTG; For charge and data exchange); 2 x SAM, 1 x SIM or 1 x SAM, 2 x SIM; Pogo PIN for charging Optional, eSIM |
| LED indicators | Charging LED |
| Multimedia | Speaker, microphone |
| Tax control interface | Optional, USB Token (For data exchange) |
| Printer | Built-in high-speed printer, 25lps, support paper roll with width of 58mm and diameter of 40mm |
| Lion Battery | Field removable, 7.4V/2600mAh Optional, 7.2V/3500mAh |
| Power adaptor | Input: AC 100V~240V/50~60Hz Output: DC 5V/2A; Optional, DC 5V/4A |
| Accessories | Optional charging base, feature base, with token configuration |
| Temperature | Operating temperature -10°C~40°C Storage temperature -20°C~70°C |
| Humidity | 5%~95%, no condensation |

4. Instruction and usage

- 4.1 Please charge the terminal within the specified voltage range, if the voltage is too low or too high, the performance of the terminal might be effected or damaged.
- 4.2 Please make sure the connection is correct when connecting the device to the host and/or the power adaptor.
- 4.3 Don't damage the power cable, if the cable is damaged, do not use it anymore.
- 4.4 Don't expose the terminal with direct sunlight, high temperature, humidity, dusty or strong corrosive gas.
- 4.5 Stay away from liquid, don't use the product where the water may pour over or enter into, don't operate the product with wet hand.
- 4.6 It is strictly prohibited to open the terminal without permission, otherwise the terminal will fail, the consequence will be at your own risk.
- 4.7 If the terminal fails, please contact maintenance personnel, user is not allowed to maintain or repair the terminal without permission.
- 4.8 Be sure to use the dedicated battery or specified type of battery, otherwise it may cause the risk of explosion. Don't disassemble, impact, squeeze the battery. Don't short circulate the electrodes of the battery. Don't expose to fire or high temperature. Stop using the battery after soaked in water.
- 4.9 Please remember to close the battery cover after replacing the battery.
- 4.10 Please check the smart card slot carefully before usage, to make sure there is no shims or other foreign objects inside.
- 4.11 It is strictly prohibited to charge and replace batteries in dangerous places. Risk of explosion if battery is replaced by an incorrect type. Dispose of used battery according to the instructions.
- 4.12 Hereby, [Dreamtek Intelligent Technology Co., Ltd] declares that the radio equipment type [Model: D1, D1 IN] is in compliance with Directive 2014/53/EU.
- 4.13 Only use Dreamtek qualified power adaptor for battery charging. For the battery, the charging temperature is 0°C to 40°C, the operating temperature is -10°C to 40°C. Do not operate and use the terminal beyond the temperature range, otherwise it may cause the risk of explosion.
- 4.14 The battery cover is intended for occasional use only by the ordinary person, to install SIM card.

5. Password anti-peep instruction

1. Using body or hand as a blocker when entering the password to prevent it from being peeped.
2. The CCTV area should as far as possible from the placement of the terminal when installing the surveillance camera, so as to avoid the cardholder's PIN leakage.
3. Clients and merchants need to conduct routine inspection to ensure that the device has not been changed and there are no suspicious objects within the smart card and magnetic card slot.

6. Packing list

| No. | Name | Qty |
|-----|-----------------------|-----|
| 1 | D1 POS Terminal | 1 |
| 2 | Battery | 1 |
| 3 | Power adaptor | 1 |
| 4 | USB-C charging Cable | 1 |
| 5 | Operation manual link | 1 |
| 6 | Paper roll | 1 |

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