

**HC-2021A/2021A-N
Infotainment Terminal
User Manual**



Package Contents

HC-2021A/2021A-N terminal.....	x1
Power adaptor.....	x1
Power cord.....	x1
I/O cable cover (including 2 screws).....	x1
User manual.....	x1

15630904020 Ver. B0

<http://www.posiflex.com>

SOME IMPORTANT NOTES

FCC NOTES

This system meets industry & government requirements and applicable standards. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with limits for a Class A digital device pursuant to subpart B of Part 15 of FCC Rules, which are designed to provide reasonable protection against interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures to correct the interference.

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.

CE CLASS A WARNING

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

AVERTISSEMENT CE CLASSE A

Cet équipement est conforme à la classe A de CISPR 32. Dans un environnement résidentiel, cet équipement peut provoquer des interférences radio.

WARRANTY LIMITS

Warranty will terminate automatically when the machine is opened by any person other than the authorized technicians. The user should consult his/her dealer for the problem happening. Warranty voids if the user does not follow the instructions in application of this merchandise. The manufacturer is by no means responsible for any damage or hazard caused by improper application.

LIMITES DE GARANTIE

La garantie prend fin automatiquement lorsque la machine est ouverte par une personne autre que les techniciens autorisés. L'utilisateur doit consulter son revendeur pour le problème qui se produit. La garantie s'annule si l'utilisateur ne suit pas les instructions d'application de cette marchandise. Le fabricant n'est en aucun cas responsable de tout dommage ou danger causé par une mauvaise application.

警告使用者

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

BATTERY CAUTION NOTES

- Dispose of used batteries according to the instructions.
- Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types)
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery that can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

BATTERIE ATTENTION NOTES

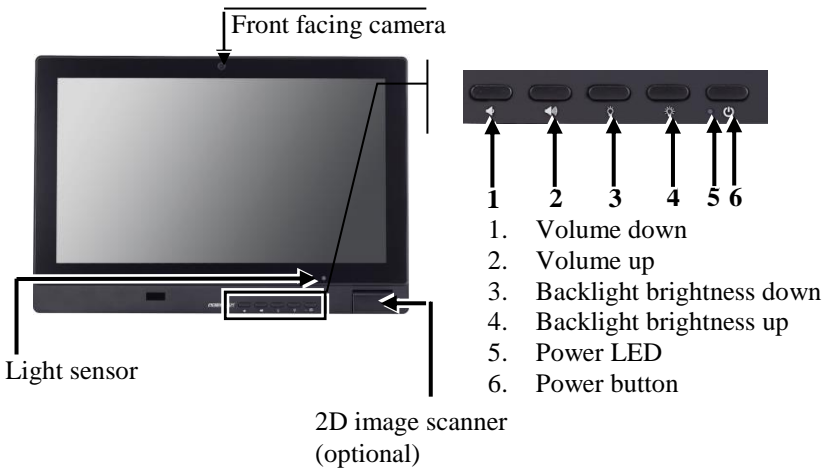
- Jetez les piles usagées conformément aux instructions.
- Remplacement d'une batterie avec un type incorrect qui peut annuler une sauvegarde (par exemple, dans le cas de certains types de batterie au lithium)
- Mise au rebut d'une batterie dans le feu ou dans un four chaud, ou écrasement ou coupure mécanique d'une batterie pouvant entraîner une explosion.
- Laisser une batterie dans un environnement environnant à des températures extrêmement élevées pouvant entraîner une explosion ou la fuite de liquide ou de gaz inflammable.
- Une batterie soumise à une pression atmosphérique extrêmement basse pouvant provoquer une explosion ou une fuite de liquide ou de gaz inflammable.

警告

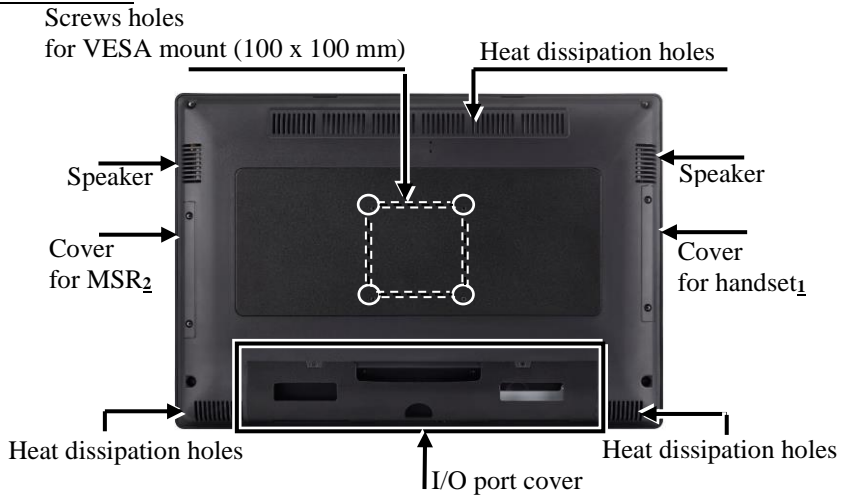
本電池如果更換不正確會有爆炸的危險，請依製造商說明書處理用過之電池。

Views of the HC-2021A/2021A-N

Front View

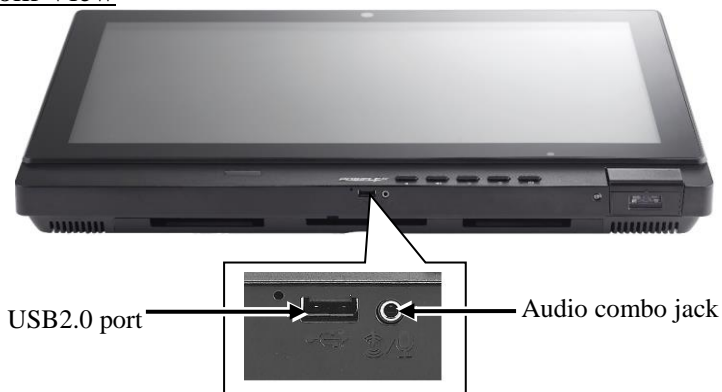


Rear View

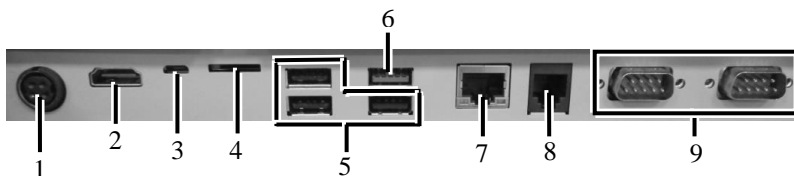


- Note:
1. Handset is optional and reserved before shipped.
 2. MSR is optional and reserved before shipped.

Bottom View



I/O Ports on the I/O Plate



- 1 12V DC-IN power jack
- 3 Micro USB port
- 5 USB 2.0 port
- 7 RJ45 LAN port
- 9 DB9 COM port

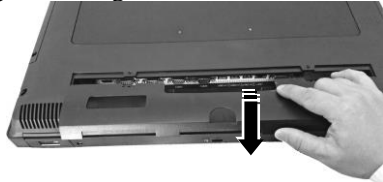
- 2 HDMI port
- 4 Micro SD card slot
- 6 USB 3.0 port
- 8 CR port

Connecting Power Adapter and I/O Cables

To have the terminal ready for operation, please connect the connector of power adapter and all of the connectors of required I/O cables respectively to the 12VDC-IN power jack and appropriate I/O ports. Please make sure that each of the cables is fully connected to each of the correct ports. Damages due to incorrect connection or orientation are not covered by product warranty!

Before connecting power adapter and I/O cables to the I/O ports of the terminal, please route and arranging the cables. Here, refer to the following step-by-step instruction of cable routing and arrangement for the details.

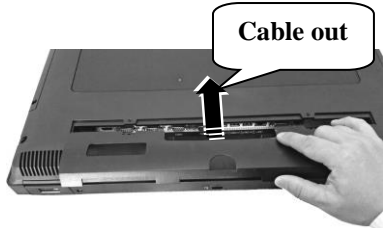
1. Remove the I/O port cover.



2. Connect the connector of the power adapter to the 12VDC-IN power jack of the terminal and I/O cables to the I/O ports of the terminal.



3. Cover the bottom I/O interface and gather the I/O cables to the cable arrangement area, as indicated by the arrow.



Some cable connectors like the connectors of the COM or LAN cables have to be gently inserted until a click is heard. It is recommended that the I/O ports, such as COM port, should be screwed after the I/O cable connectors are completely connected. And please make sure that each connector has to be connected to the right peripheral device in the right way.

CAUTION: On doing insertion or extraction of a cable connector, please always hold the connector head itself instead of pulling the cable wire. Doing this could damage the cables and ports, which is considered as an artificial damage and is not covered by the warranty. The means of power cord should be connected to a socket-outlet with earthing connection.

ATTENTION: Lors de l'insertion ou de l'extraction d'un connecteur de câble, veuillez toujours tenir la tête du connecteur elle-même au lieu de tirer le fil du câble. Cela pourrait endommager les câbles, ce qui est considéré comme un dommage artificiel et n'est pas couvert par la garantie. Le cordon d'alimentation doit être connecté à une prise de courant avec mise à la terre.

Note: The COM ports of HC-2021A/2021A-N do not supply power by default. To make the COM ports supply power, you can set up the COM ports through the dedicated settings listed in the table below.

	HC-2021A/2021A-N	
	COM1/2	
	5VDC	12VDC
App Setting	v	x
Jumper Setting	x	v

Installing Optional Peripheral Devices

Posiflex HC-2021A/2021A-N can work with multiple optional peripheral devices, such as MSR, headset and the like.

Before installing an optional peripheral device, make sure that the system is powered off and the external power source is removed from the terminal to prevent electric hazard! Failure to follow the warning description will void the product warranty!

For the detailed instruction, refer to the each of the user manuals of the optional peripheral devices.

Mounting the HC-2021A/2021A-N on the Wall (Optional)

You can mount the terminal on the wall by using the optional wall mount bracket, WB5000.

For detailed installation description, please refer to the installation guide of wall mount kit you purchase.

Powering ON/OFF the HC-2021A/2021A-N

Power ON HC-2021A/2021A-N

To power on the HC-2021A/2021A-N, gently press and hold down the power button for at least 3 seconds, and then release the button.

Power OFF HC-2021A/2021A-N

To initiate a system shutdown on Android operating system, you are expected to follow the following procedures to turn off your system:

1. Press down the power button for a few seconds until a pop-up window appears.
2. Tap **Power off** on the screen to shut down your system. If you need to reboot your system right away, please be advised to wait at least three seconds to do so.

However, it is likely that HC-2021A/2021A-N cannot restart or shut down normally due to the unexpected reasons. In such a case, it is suggested to initiate a shutdown by keeping holding down the power button more than 10 seconds.

Enabling/Disabling the Buttons

By enabling and/or disabling the buttons, you can use the functions of Auto Backlight Adjustment, Control Button Locking, and Power Button Locking.

Auto Backlight Adjustment

In the default condition, the backlight of the HC-2021A/2021A-N must be adjusted manually.

To use the function of automatic backlight adjustment, refer to the following instruction.



Press once the Backlight Brightness Up and Backlight Brightness Down buttons at the same time.

After the Backlight Brightness Up and Backlight Brightness Down buttons are pressed once at the same time, the HC-2021A/2021A-N will adjust its backlight automatically by detecting the ambient light.

To disable the function of automatic backlight adjustment, press once the Backlight Brightness Up *or* Backlight Brightness Down buttons.



Press once the Backlight Brightness Up or Backlight Brightness Down buttons to disable the automatic backlight adjustment.

Locking the 4 Control Buttons

In the default condition, the 4 control buttons -- Volume Down, Volume Up, Backlight Brightness Up, and Backlight Brightness Down -- are for users to control.

To lock the 4 control buttons, refer to the following instruction.



Press the Volume Up and Backlight Brightness Up buttons *sequentially* and then hold for 3 seconds.

To unlock the 4 control buttons, refer to the following instruction.



Press the Volume Down and Backlight Brightness Down buttons *sequentially* and then hold for 3 seconds.

Setting the Power Button to “ON ONLY”

In the default condition, the power button is for you to easily power on or off the HC-2021A/2021A-N. In order to avoid users from pressing the power button by mistake to make the system shut down accidentally, you can make the system stay “always ON” by locking the power button.

To lock the power button, refer to the following instruction.



Press the Volume Down, Volume Up, and Backlight Brightness Up buttons *sequentially* and then hold for 3 seconds.

To unlock the power button, refer to the following instruction.



Press the Volume Down, Volume Up, and Backlight Brightness Down buttons *sequentially* and then hold for 3 seconds.

Back to the Default Conditions

To make all of the buttons return to default conditions, refer to the following instruction.



Press the Volume Up, Backlight Brightness Down, and Backlight Brightness Up buttons sequentially and then hold for 3 seconds.

When you successfully make all of the buttons return to default conditions, the 4 control buttons and the power button will be unlocked and the automatic backlight must be adjusted manually.

Power LED Indicator

There is a power LED indicator on the front side of the HC-2021A/2021A-N. After powering ON the terminal, you can read the terminal operation status from the power status LED indicator. The LED status is described below.

LED	Status	Description
POWER	Solid blue	Terminal ON
	Solid orange	Power standby

Operation Environment

This terminal must NOT be operated in an environment with restricted ventilation. There must be at least 25 mm air clearance around any top or side ventilation holes with free flow of air around the unit at all times for system operation.

Specifications

		HC-2021A/2021A-N
System Configuration		
CPU		Rockchip RK3399
Memory		2GB / 4GB onboard
Storage		16GB / 32GB /64GB eMMC onboard
Power Supply		12V/60W
OS Support		Android 9.0
Display & Touch		
LCD		21.5" TFT LCD
Resolution		1920 x 1080

Touch	HC-2021A: PCAP touch with multi-touch support HC-2021A-N: N/A
I/O & Expansion	
Serial Port	Serial port (DB9) x 2
External USB Port	5 ports, USB3.0 x 1 + USB2.0 x 4
Internal USB Port	1 x 7-pin USB connector for 4G module (SM-140) 3 x 5-pin USB connector (reserved)
OTG USB	micro USB x 1
LAN Port	10/100/1000 Mb x 1
Display Port	HDMI port x 1
Camera	Front facing, 1MP wide angle, auto focus
Audio	2 x 3W speaker + mic-in/line-out combo
CR Port	1, control 2 x cash drawer, 24V support only
Power	12V DC-in jack 4-pin
Hotkeys	1. Volume up + down 2. Brightness up + down 3. Power on/off
Light Sensor	Yes, located on front bezel
Wireless	WiFi + BT (mini-PCIe socket, 2T2R antenna) (optional)
Indicator	Power LED indicator (power on/standby)
Expansion Storage Slot	1 x mini-PCIe for WiFi
Mechanism	VESA mount 100 x 100
Options	
Attachment	MSR: SA-105 / SA-305 / SA-405 / SA-505 iButton: SA-205 RFID: SA-305 / SA-505
Scanner	Integrated 2D imager module
Handset	Yes
Wall Mount Bracket	WB-5000
Physical Dimensions	
Dimension	546.63 x 6.1 x 377.49 (W x D x H in mm)
Weight	6.0 Kg
Environmental	

Operating Condition	0°C - 40°C, 20%RH - 90%RH
Storage Condition	-20°C - 70°C, 10%RH - 90%RH
Certification	CE/FCC

※ The product information and specifications are subject to change without prior notice. To get the detailed information on HC-2021A/2021AN, please check this model from Posiflex Global Website (<http://www.posiflex.com/en-global/Download/download>).