HC-1521IR/1521IR-Pro/1521P/1521P-Pro
Infotainment Terminal
User Manual

POSIFLEX

HC-1521IR/1521IR-Pro

HC-1521P/1521P-Pro

Package Contents

HC-1521 series terminal……………………………………x1
Power adaptor..x1
Power cord………………………………………………….x1
I/O cable cover (including 2 screws)…………………………x1
User manual...x1
Recovery DVD………………………………………………...x1

Views of the HC-1521 Series

Front View of HC-1521IR/1521IR-Pro

1. Volume down
2. Volume up
3. Backlight brightness down
4. Backlight brightness up
5. Power LED
6. Power button
7. Light sensor

Front View of HC-1521P/1521P-Pro

Front facing camera

1 2 3 4 5 6

8. Volume down
9. Volume up
10. Backlight brightness down
11. Backlight brightness up
12. Power LED
13. Power button

Light sensor

IR receiver

2D image scanner
(optional)

Rear View of HC-1521 Series

Screws holes
for VESA mount (100 x 100 mm)

Heat dissipation holes

Speaker

Speaker

Cover
for MSR**2**

Cover
for handset**1**

Heat dissipation holes

Heat dissipation holes

I/O port cover
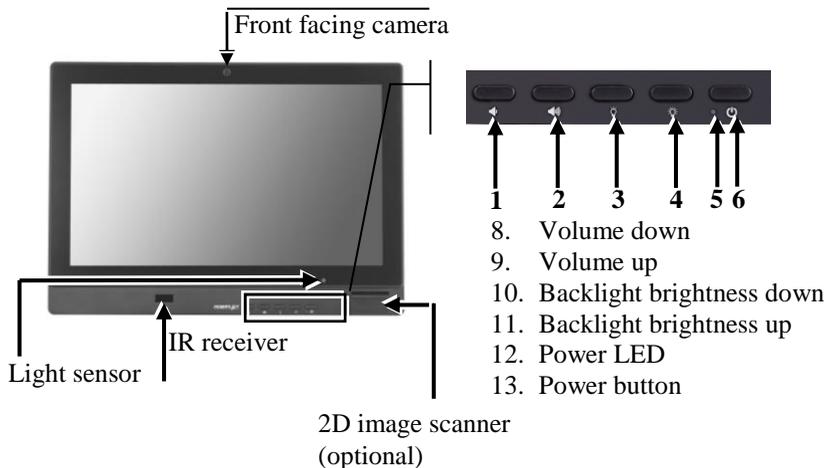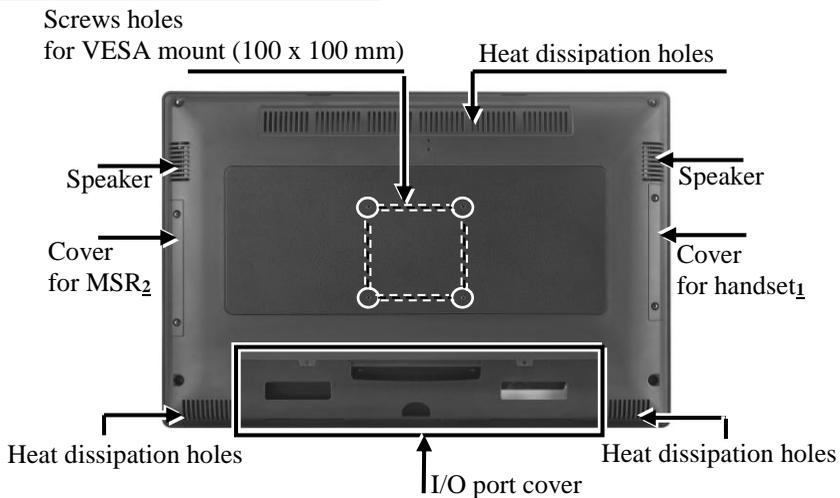
Note: 1. Handset is optional and reserved before shipped.
       2. MSR is optional and reserved before shipped.

Bottom View of HC-1521 Series

Microphone[1] ——→
USB2.0 port ——→
——→ Audio combo jack
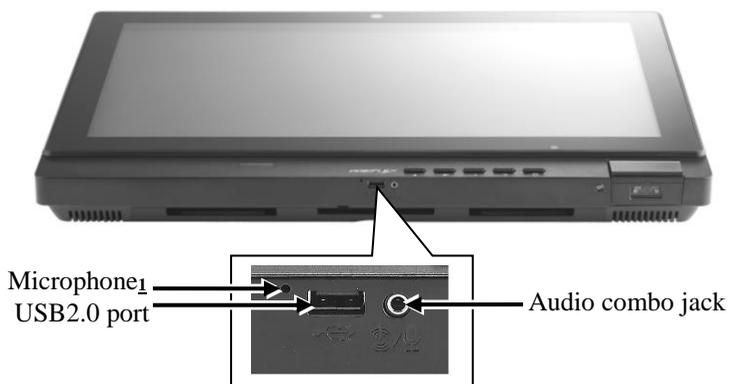
> Note: 1. The microphone is provided for HC-1521P/1521P-Pro ONLY.

Rear Bottom View of I/O Ports

1   2   3   4   5   6   7   8   9
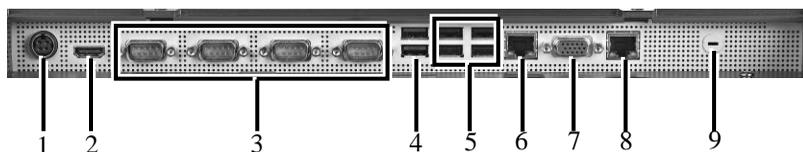
1	12VDC-IN power jack	2	HDMI port
3	Serial (DB9) port (COM1 ~ COM4)	4	USB3.0 port
5	USB2.0 port	6	RJ45 LAN port
7	VGA port	8	RJ45 LAN port
9	Coaxial connector for cable TV tuner (optional)[1]		

> Note: 1. The coaxial connector is provided for HC-1521P/1521P-Pro ONLY.

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!

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 and VGA 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.

Note: The COM ports of HC-1521 series 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-1521 series	
	------------------	----------
	COM1/2/3/4	
	5VDC	12VDC
BIOS Setting	v	x
Jumper Setting	v	v

Installing Optional Peripheral Devices

Posiflex HC-1521 series 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 user manual of each of the optional peripheral devices.

Installing a Cable TV Tuner Dongle (Optional for HC-1521P)

The cable TV tuner dongle is optional for HC-1521P/1521P-Pro ONLY.
To install the cable TV tuner dongle in your HC-1521P/1521P-Pro terminal, refer to the step-by-step guidance of installation made below.

1. Remove the I/O port cover.
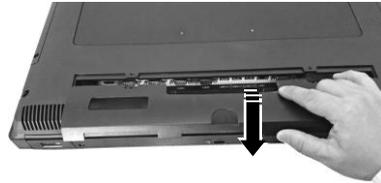
2. Loosen and remove 2 screws on the cable TV tuner dongle cover. Then, remove the cable TV tuner dongle cover.
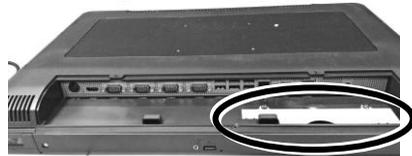
3. Determine to make the USB connector of the dongle be toward the right side.

Rightward
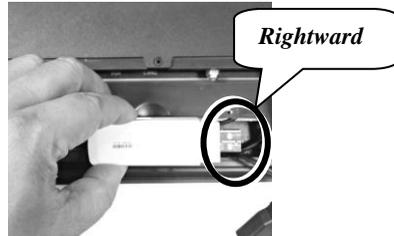
4. Make the connector of coaxial cable extended from the terminal connect to the coaxial cable connect of the cable TV tuner dongle.

5. Squeeze the coaxial cable connected to the cable TV tuner dongle into the cable TV tuner dongle compartment of the terminal.

Squeezed into the compartment
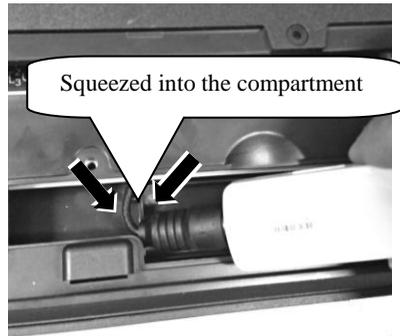
6. Make the male USB connector of the dongle connect to the female connector of the USB cable extended from the terminal.

7. Squeeze the USB cable connected to the cable TV tuner dongle into the cable TV tuner dongle compartment of the terminal.

Squeezed into the compartment
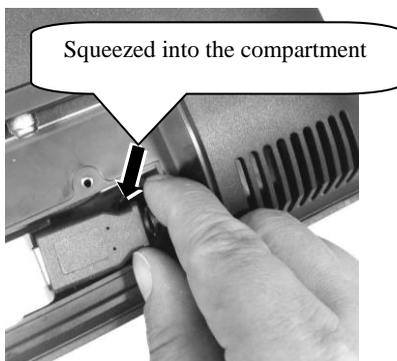
8. Determine that the cable TV tuner dongle is well mounted to the cable TV tuner dongle compartment of the terminal.
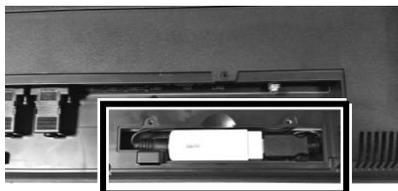
9. Place back the cable TV tuner dongle cover on the compartment of the terminal and fasten it with 2 screws.
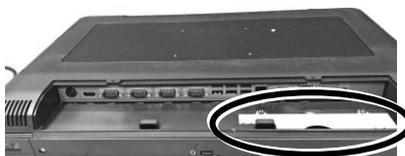
10. Place the I/O port cover back for shielding the I/O ports of the terminal.
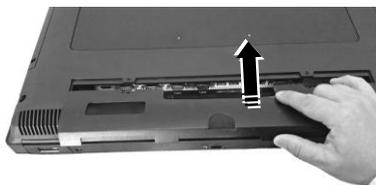
To install the dongle driver and the TV software utility, please refer to the quick installation guide of cable TV tuner dongle (H830O).

Connecting Power Adapter and I/O Cables

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.

Cable out
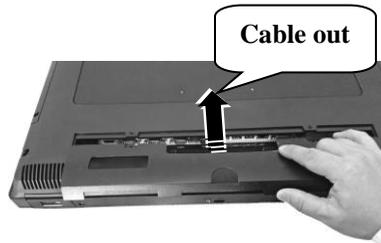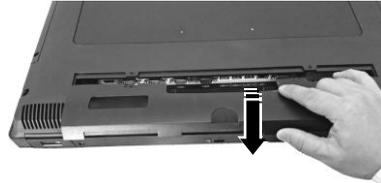
Mounting the HC-1521 Series on the Wall (Optional)

If you are a user of HC-1521IR/1521IR-Pro provided with a scanner, you can mount the terminal on the wall by using the optional wall mount kit, SK-300, while if you are a user of HC-1521IR/1521IR-Pro without any scanner, you can mount the terminal on the wall by using the optional wall mount bracket, WB5000.

If you are a HC-1521P/1521P-Pro user, 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 the HC-1521 Series

To power on the HC-1521 series, just press the power button; to power it off, press and hold the button for 3 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-1521 series 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-1521 series 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.
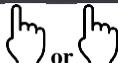
Press once the Backlight Brightness Up or Backlight Brightness Down buttons to disable the automatic backlight adjustment.

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.
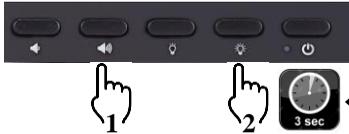
Press the Volume Up and Backlight Brightness Up buttons _sequentially and then hold for 3 seconds_.

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-1521 series. In order to avoid users from pressing the power button by mistake to make the system shut down accidently, 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.
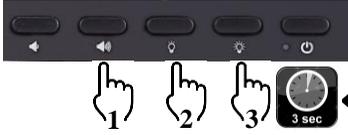
Press **the Volume Up, Backlight Brightness Down, and Backlight Brightness Up buttons** *sequentially and then hold for 3 seconds*.

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-1521 series. 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

Installing an Operating System

This product is highly professional equipment. Therefore, we do NOT encourage you to install any operating system into this machine without professional assistance. Posiflex Technology, Inc. shall not be responsible for any technical support to questions on this aspect. We suggest that you contact your dealer for OS installation.

Operating System Recovery

For the HC-1521 series main terminal preloaded with an operating system on HDD or SSD, Posiflex provides a recovery DVD shipped with the main terminal for the preloaded operating system. The system integrator shall take care of software restoration after the OS is recovered.

If you plan to recover your operating system, we do NOT encourage you to recover any operating system by yourself. Please contact your service center for operating system recovery.

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-1521IR/1521IR-Pro	1521P/1521P-Pro
System Configuration		
Processor	Intel Haswell platform, default Core i3 w/H81 chipset, Core i5 w/Q87 chipset (vPro support)	
Memory	2 x DDR3 SO-DIMM sockets (1333/1600 FSB)	
Storage	1 x SATA / 1 x mSATA (SATA for 2.5" HDD or SSD)	
Power Supply	12V/130W or 12V/150W	
OS Support	POSReady 7 (32bit/64bit) / WIN 7 (32bit/64bit) / WIN 8.1 Industry (32bit/64bit) / WIN 10 IoT (32bit/64bit)	
Display & Touch		
LCD	21.5" TFT LCD	
Resolution	1920 x 1080	
Touch	IR touch	PCAP touch
I/O & Expansion		
Serial Port	4 x serial port (4 x DB9)	
USB Port	7 x USB port (1 x USB2.0 at front bottom side / 4 x USB2.0 + 2 x USB3.0 at rear bottom side)	
LAN Port	2 x LAN (RJ-45) port	
Display Port	1 x VGA port / 1 x HDMI port	
Camera	N/A	Front facing, 5MP , auto focus
Audio	2 x internal 3watt speaker /1 x audio combo jack	
Microphone	N/A	Integrated MIC
Power	DC-in jack	
Antenna	N/A	1 x Coaxial connector
Expansion Slot	1 x mini-PCIe slot	
Hotkeys	1. Volume up + down 2. Brightness up + down 3. Power on/off	
Light Sensor	N/A	Yes, located on front bezel
Wireless	WIFI + BT via mini-PCIe slot (optional)	
Indicator	Power LED indicator (power on/Standby)	
Intel AMT Support	Yes	

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	HC-1521IR/1521IR-Pro	**1521P/1521P-Pro**
Mechanism	1. VESA 100 mounting 2. Designed with two I/O panels, one on the rear of the terminal and the other one on the bottom of the terminal	
Certification	CE/FCC	
Environmental		
Operating Condition	0°C - 40°C, 20%RH - 90%RH (equipped with HDD); 0°C - 50°C, 20%RH - 90%RH (equipped with SSD)	
Storage Condition	-20°C - 70°C, 10%RH - 90%RH	
Options		
Attachment	SA-105 (MSR) / SA-305 (MSR + SC reader +fingerprint reader)	
2D Scanner	Externally attached to HC-1521IR at the bottom of the terminal (via WB5000 and SK-300)	Integrated module for option
Cable TV Tuner	N/A	USB dongle & remote control
Handset	Yes	

※ *The product information and specifications are subject to change without prior notice. To get the detailed information on HC-1521 series, please check this model from Posiflex Global Website (http://www.posiflex.com/en-global/Download/download).*

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