TWINHEAD

PN1H

Plug-In PC

Operating Instructions

Before connecting, operating, or adjusting this product, please read this instruction completely. Please keep this manual for future reference.
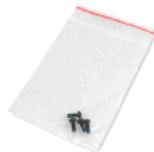
Package Content

The following items come with your package. If any of them is damaged or missing, please contact your retailer.
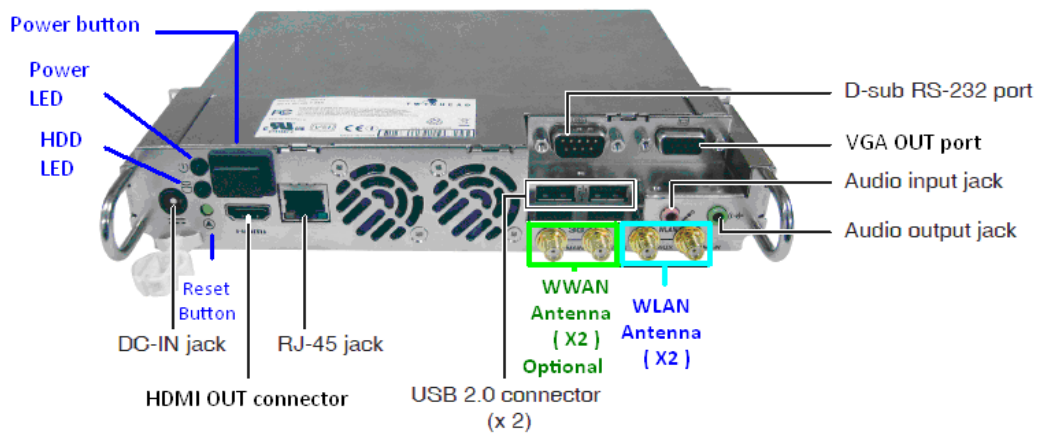
PN1H Plug-in PC

AC adapter

Screws

WLAN antenna
(X 2)

Power cord

Product Overview

Power button

Power LED

HDD LED

Reset Button

DC-IN jack

RJ-45 jack

HDMI OUT connector

USB 2.0 connector (x 2)

WWAN Antenna (X2) Optional

WLAN Antenna (X2)

D-sub RS-232 port

VGA OUT port

Audio input jack

Audio output jack

2

Note:

1. HDMI and VGA cannot be used at the same time.

2. Turn On/Off the Plug-In PC from TV remote

3. The Plug-In PC will follow TV power status

LED Indicator

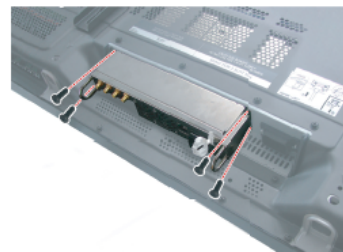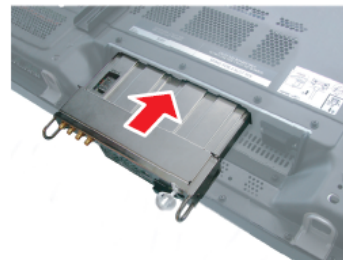| LED Indicator	
Item	**Description**
Power LED	Green when system is active
HDD LED	Green when the read/write data
LAN LED	Green when the LAN is connected
	Yellow when the LAN access data

Device Setup

Installation

To install the device, do the following:

1. Turn the power of the Display off and unplug it from the supply outlet.

2. Carefully place the Display down on a cushioned surface to protect the screen from damage.
   - Install only with another person's assistance.

3. Remove the slot covers by unscrewing the securing screws.

4. Insert the Plug-in PC until it is firmly plugged into the connector as shown.
   - Note that incomplete insertion may damage the internal components.

5. Secure it with the four included screws. Please fasten with a cross screw driver.
   - Be sure to fasten all screws tightly.

English

Detachment
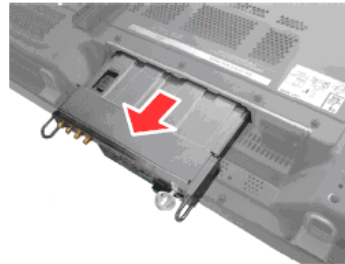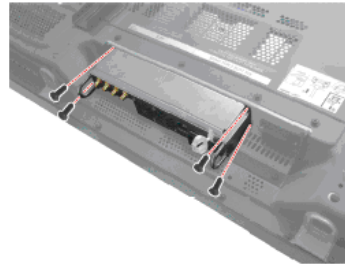
To remove the device, do the following:

1. Turn the power of the Display off and unplug it from the supply outlet.

2. Carefully place the Display down on a cushioned surface to protect the screen from damage.

3. Remove the securing screws.

4. Grip the handle of the Plug-in PC and slowly pull out from the Display slot.

Selecting the Input Signal

To switch the input signal to Plug-in PC, do the following:

1. Connect the power cord correctly and power on the Display.

2. Press the **INPUT** button on the remote control or Display control panel to select the input signal to be played back from the equipment which has been connected to the Display.

   Input signals will change as follow:

   → PC → PLUG-IN PC* → VIDEO → COMPONENT** → HDMI → DVI ⌐

   PC: PC input terminal in PC IN.

   PLUG-IN PC*: Input terminal in Plug-in PC.

   * This option only appears if a Plug-in PC is installed into the Display.

   VIDEO: Video input terminal in AV IN (VIDEO).

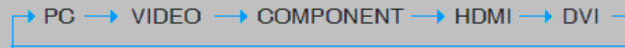   **COMPONENT****: Component or RGB input terminal in COMPONENT/RGB IN.

   ** "COMPONENT" may be displayed as "RGB", depending the setting of "COMPONENT/RGB-IN SELECT".

   HDMI: HDMI input terminal in AV IN (HDMI).

   DVI: DVI input terminal in DVI-D IN.

4

Note:

• When a Plug-in PC incompatible with the Display is installed, "NON-COMPATIBLE FUNCTION BOARD" is displayed on the screen.

• If there is no Plug-in PC installed into the Display, the input signal will change as follow:

$\rightarrow$ PC $\longrightarrow$ VIDEO $\longrightarrow$ COMPONENT $\longrightarrow$ HDMI $\longrightarrow$ DVI $\rightarrow$

3. Select **PLUG-IN PC** and the system will automatically adjust to the highest resolution of the Display screen size.

Specifications

Features		Specifications
CPU	Type & Speed	Intel i5 2520M / Intel i7 2620M
	Install Method	PGA socket 989
	Power Consumption	35W
	Level 2 Cache	3MB on-die for i5, 4MB for i7
Major Chipsets	Chipsets	Core Logic: Intel HM65
		VGA: Embeded Graphic Intel HD Graphic 100/200 Or nVidia N12P GS (Optional)
		USB 2.0: HM65 built-in
		Audio: Support High Definition
		Keyboard Control: ITE 8518
System memory	Capacity	Two 204-pin DDRIII SODIMM sockets each for 1, 2, 4GB
		Standard is 4GB memory
	Type	DDR-III 800-1333MHz
	Max. Memory	8GB
Storage	Internal hard disk drive	2.5" 9.5mm HDD with SATA150, 7200RPM
		Support 320/500 GB or more

5

System & Video		EFI BIOS structure
		4MB Flash Memory
		Supports ACPI 3.0, USB2.0 boot (all ports)
		Suspend to RAM, Suspend to Disk
Communications	Networking devices	Integrated Gigabit bps Ethernet
	Wireless networking devices	Two Mini Express card slots
		Support two Ext. SMA Antennas if WLAN module installed
	WWAN	Another mini card slot for optional WWAN module that supports LTE module
		The SIM card socket is on board
		Support Ext. Main and Aux. SMA Antennas if WWAN module installed
Operating System	Microsoft OS	Windows 7 (64-bit)
		Windows XP embedded driver ready
Power supply		AC power input:100V-240V, 50Hz-60Hz, 110W; output: 15.6V
Dimensions		209.1mm (W) x 176.4mm (D) x 38.5 mm (H)

Safety Precautions

⚠ WARNING

- **Never attempt to disassemble or modify this product.**
  To avoid fire, shock, or failure.

- **If you sense smoke, an odd odor, or unusual noises while in operation, immediately unplug the display.**
  Switch off and unplug the plasma display from the supply outlet. To avoid fire or shock, do not leave the power of the display turned on.

- **To avoid shock or other problems, do not leave the display plugged into the supply outlet.**

- **It is recommended to use Shield LAN Cable**

- **Please contact our designated service department for installation or change of this product.**

Attention to Service personnel:
Before removing or installing the Plug-in PC, be sure to turn the power of the display off and unplug it from the supply outlet.

Handling Cautions

- **Do not touch the connector contacts directly with hands.**
  To avoid electrostatic damage to internal parts, before handling this product, torch a large metallic object such as a steel cabinet to discharge yourself before handling this product.

- **Be sure to use the supplied cable or specified parts for interconnection.**
  To avoid malfunction or failure, do not use parts other than those recommended.

- **Be sure to turn the power of the display off and unplug it from the supply outlet before installing or removing the product.**

- **When installing or removing the Plug-in PC, exercise care to avoid injury.**
  There may be some sharp-pointed solder joints on the rear side of the board that could cause unexpected injury.

Copyright

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Regulatory Statement

Federal Communications Commission Statement

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 the 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.

Shielded interconnect cables and shielded AC power cable must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

Declaration of Conformity
This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:
This device may not cause harmful interference
This device must accept any interference received, including interference that may cause undesired operation.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

This device is operation in 5.15 – 5.25GHz frequency range, then restricted in indoor use only.
This device is slave equipment, the device is not radar detection and not ad-hoc operation in the DFS band.

European Notice
Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.
Compliance with these directives implies conformity to the following European Norms:
- **EN 55022** (CISPR 22) Radio Frequency Interference
- **EN 55024** (EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8,EN61000-4-11, EN61000-3-2, EN61000-3-3) Generic Immunity Standard
- **EN 60950-1** (IEC 60950-1) Product Safety

R&TTE (CE) MANUAL REGULATORY REQUIREMENT (WLAN - IEEE 802.11a/b/g/n)

- **802.11a Restrictions:**

- **The low band 5.15 -5.35 GHz is for indoor use only.**

- **802.11b.g.n Restrictions:**

- European standards dictate maximum radiated transmit power of 100mW EIRP and frequency range 2.400-2.4835GHz.

- In France, the equipment must be restricted to the 2.4465-2.4835GHz frequency range and must be restricted to indoor use."

CE Declaration of Conformity
CE !

Is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (89/336/EEC), Low- voltage Directive (73/23/EEC) and the Amendment Directive (93/68/EEC), the procedures given in European Council Directive 99/5/EC and 9/3360EEC. The equipment was passed. The test was performed according to the following European standards.

- EN 301 893 V1.2.3

- EN 300 328 V1.7.1 (2006-05)

- EN 301 489-1 V.1.4.1 (2005-09) / EN 301 489-17 V.1.2.1 (2002-04)

- EN 60950-1:2001

Battery Disposal

THIS PRODUCT CONTAINS A LITHIUM-ION OR NICKEL-METAL HYDRIDE BATTERY. IT MUST BE DISPOSED OF PROPERLY. CONTACT LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION ON RECYCLING AND DISPOSAL PLANS IN YOUR AREA.

Safety Instructions

DO NOT block the opening vents provided for ventilation. Blocking these vents may cause the notebook processor to overheat.

Always keep strong magnetic or electrical objects away from your notebook.

DO NOT use or store your notebook in extreme temperatures.

DO NOT place your notebook near fire or other sources of heat.

DO NOT expose to dust or corrosive materials.

DO NOT tamper the battery. Keep it away from children.

Never pick up or hold your notebook by the display.

DO NOT expose your notebook to sudden changes in temperature or humidity. Keep your notebook away from air conditioners or heating vents.

CAUTION FOR ADAPTER
THIS NOTEBOOK IS FOR USE WITH DEDICATED AC ADAPTER.

BATTERY SAFETY
DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

■認定番号
本製品は以下に認証を受けたものです。
認証機器名：PN1H

認定番号：　D11-0237001

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