

# WMP-248

24" -Wide Latest Core i Haswell Multi Touch Medical Panel PC



## Key Features

- Intel® 4th generation Core i7/i5/i3 processors
- Projective capacitive multi-touch screen (10 fingers)
- Seamless on the front side and super slim 65.6mm only
- Easy wipe surfaces with no internal corners
- IP65 at front side, IPx1 for whole system
- Medical 60601-1 3<sup>rd</sup> edition certification
- Anti-bacteria (MRSA) plastic housing
- DVI-D video input for direct digital display
- Friendly design of LED reading light bar
- Optional for 4KV LAN/COM/USB isolation card
- Optional for built-in battery backup function
- Optional optical device (DVD or DVD-RW)
- Optional for TPM module design



## Main System

<b>CPU</b>	BGA1364 for 4th generation Intel® mobile Core i7/i5/i3 processor (37W max.)
<b>Chipset</b>	Intel® DH82QM87 PCH
<b>VGA</b>	Intel® integrated HD Graphics 4600
<b>Memory</b>	Two 1600 MHz DDR3/DDR3L SODIMM socket support dual Channel, non-ECC, up to 16GB
<b>Serial ATA</b>	SATA 3, 600 MB/s transfer rate x 2 support RAID 0, 1, 5; mSATA via Mini-PCIe (Thru SATA III) x 1
<b>USB</b>	x 9 (socket), ( USB 3.0 external x 4, USB 2.0 internal x 5 )
<b>COM</b>	x 2 (RS-232 x 1, RS-232/422/485 x 1)
<b>Audio</b>	Realtek ALC262 Audio Codec, 5 + 5 watts power amplifier
<b>LAN</b>	Marvell 88E8071 Giga LAN x 2
<b>BIOS</b>	· Brand: AMI (UEFI) · Flash ROM size: 8M byte · Support RTC wakeup /Wake on LAN /Power on after power failure/PnP/ACPI/RTC
<b>Speaker</b>	5W x 2

## LCD Panel

<b>Size</b>	24" wide 16:9
<b>Resolution</b>	Full HD 1920 x 1080
<b>Brightness</b>	250 nits
<b>Contrast</b>	3000:1 (Typ)
<b>Color numbers</b>	16.7M colors (true 8-bit)
<b>Viewing angle</b>	178 (H) / 178 (V)
<b>Response time</b>	12 ms (Typ)
<b>Backlight</b>	LED, 30,000 hours life time

## Touch Panel

<b>Type</b>	Front full flat touch panel
<b>Technology</b>	Projective capacitive touch panel (10 fingers)
<b>Light Transmission</b>	90% ± 3%
<b>Hardness</b>	7H pencil, pressure 750g/45°
<b>Touch stylus</b>	Finger, thin gloved hand or conductive stylus
<b>Resolution</b>	100ppi to 25ppi Based WIN7 definition ppi (Pixel per inch)
<b>Life time</b>	100M times

## Storage & Expansion

<b>HDD</b>	2.5" SATA HDD drive bay x 1 , mSATA via Mini PCI-E (Thru SATA III) x 1
<b>2nd storage</b>	DVD drive / or 2nd HDD / or Card reader x 1
<b>Expansion slot</b>	· PCI-E x 16 expansion slot x 1 or PCI 2.2 x 1 · Mini PCIe x 2 (52 pin card-edge type)

## I/O & Control Keys

<b>USB</b>	USB 3.0 x 4 , USB 2.0 x 2 (Default)
<b>COM</b>	RS232 x 1, RS232/RS422/RS485 x 1 (RS-485 auto flow support)
<b>LAN</b>	RJ-45 x 2, Gigabit
<b>Video-out</b>	DP x 2
<b>Video-in</b>	DVI-D x 1
<b>Audio</b>	Line-out, Microphone-in (3.5 mm phone-jack)
<b>Power input</b>	DC-in x 1, 6V~32V
<b>Control keys</b>	· Front side, projected capacitive type · Power, brightness, audio volume, read light, display, backlight, touch on/off, programmable button

## Power

<b>Power adaptor</b>	AC input 90 ~ 264V / 47 ~ 63 Hz / DC output 12V, medical grade, 1.2m DC cable
<b>Power consumption</b>	78 watts (typical, without any add-ons) TBC
<b>Internal battery (optional)</b>	Built-in battery backup function (by EC solution)

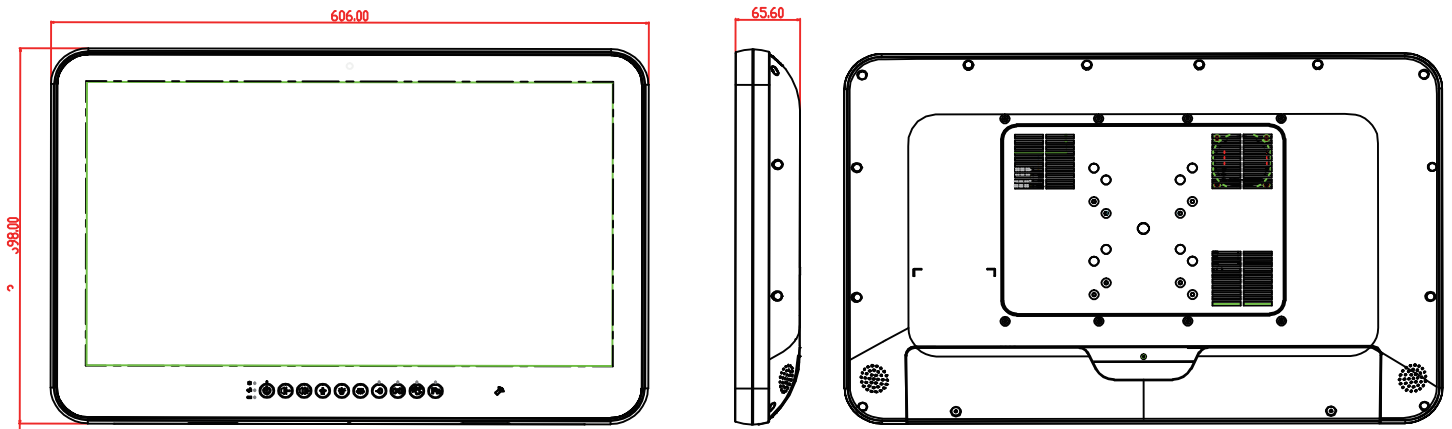
## Mechanical & Environmental

<b>Housing</b>	· Front: Full flat design · Rear: Plastic + I/O cover w/ antibacterial treatment · Anti-bacteria (MRSA)
<b>Color</b>	· Housing: White · Control key icons: Silver Grey (Panton no. Cool grey 8C)
<b>IP rating</b>	IP65 – front side
<b>Cooling</b>	Variable speed smart fan design, < 30 dB (typical)
<b>Mounting</b>	VESA 75 x 75 / 100 x 100 mm
<b>Kensington lock</b>	Yes, bottom x 1
<b>Dimension</b>	606 (H) x 398 (V) x 65.6 (T) (mm x mm x mm)
<b>Weight (net)</b>	8.5 kg (w/o power adapter)
<b>Temperature</b>	· Operating : 0°C~40°C (chamber) · Storage : -20°C~60°C
<b>Humidity</b>	Operating & storage – 10%~90%, non-condensing
<b>Regulatory</b>	UL/cUL 60601-1 version 3, FCC/VCCI class B / EN 60601-1 / EN60601-1-2:2007 / ISO 14971

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## Outline Dimension



## Packaging / Options / Customization

**Packaging** System, power adaptor, AC power cord, DVD (drivers & manual)

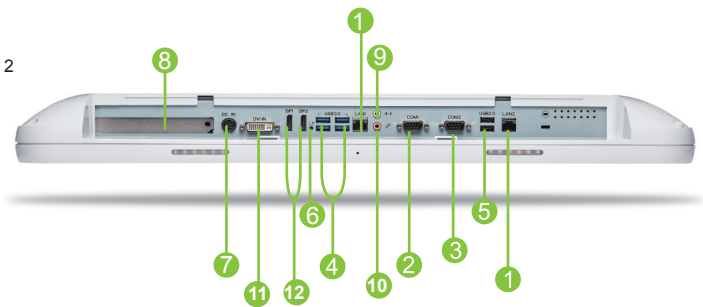
- Options**
- WLAN – 802.11 a/b/g/n mini PCIe module with internal antenna x 2
  - 802.11a/b/g/n dual-band 2T2R with Bluetooth
  - Webcam (5M pixel, USB)
  - Battery pack
  - RFID reader (13.56Hz, USB)
  - Video Graphic card (PCI-E x 16)
  - PCI-E x16 or PCI raiser card
  - Power adaptor w/ 2.4m or 3.6m DC cable
  - Anti-bacteria desktop stand (metal, white)
  - Equipotential terminal pin
  - TPM module
  - DVD drive / or Smart card reader / or 2nd HDD
  - CFAST card
  - 4KV Isolation Card x 1  
(Isolation COM x 2, Isolation LAN x 1, Isolation USB x 1)



- Customization**
- Add extra two COM ports
  - AG Film



## I/O Connectors



- ① LAN x 2
- ② RS232/422/485
- ③ RS232
- ④ USB 3.0 x 4
- ⑤ USB 2.0 x 2
- ⑥ Reset
- ⑦ DC-in
- ⑧ PCI-E/PCI expansion
- ⑨ Line-out
- ⑩ Microphone-in
- ⑪ DVI-D (Input)
- ⑫ DP Port x 2 (Output)
- ⑬ DVD (Option)



## Ordering Information

- CPU: Core i5-4400E (default) / i3-4100E · Memory: 2G / 4G / 8G / 16G · HDD: 320G / 500G · CFAST card: None / x 1
- Power adaptor: 1.2m / 2.4m / 3.6m DC cable · WLAN: None / x 1 · Bluetooth + WLAN: None / x 1 · Battery pack: None / x 1
- RFID reader: None / x 1 · Expansion: None / PCI-E / PCI · Webcam: None / x 1 · 4KV Isolation Card: None / x 1
- Video Graphic card: None / x 1 · TPM module: None / x 1 · Smart card reader / or DVD drive / or 2nd HDD
- Desktop stand: None / x 1 · Equipotential terminal pin: None / x 1



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