

# WMP-249

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



## Key Features



- 24" Intel Haswell Fanless Medical Panel PC
- 24" FHD 1920x1080 MVA LED panel
- Intel 4th gen. Haswell Core i7/i5/i3 CPU
- P-CAP multi-touch with 10 fingers
- Medical UL60601-1 3rd edition certification
- Anti-bacteria (MRSA) plastic housing
- Optional PCI/PCIe expansion slot
- Seamless in front & ultra slim 65mm only
- Easy wipe surface with no internal corner
- IP65 at front side, IPx1 for whole system
- Friendly design of Function hot-deys
- DVI-D video input for direct digital display
- Friendly design of LED reading light bar
- Optional 4KV LAN/COM/USB isolation I/O
- Optional built-in battery pack
- Optional optical device (DVD or DVD-RW)

## Main System

<b>CPU</b>	BGA1364 for 4th generation Intel® mobile Core i7/ i5 / i3 processor (25W 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: 64 Mb · Support RTC wakeup /Wake on LAN /Power on after power failure/PnP/ACPI/RTC

**Speaker** 5W x 2  
**Microphone** x 1

## 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 (60W max) or PCI 2.2 x 1 (25W max) · Card size: 114mm (W) x 190mm (D) x 25mm(H) · 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, 7V~32V (7V~28V with battery pack)
<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>	92.22 W ( MAX. loading without adapter )
<b>Internal battery (optional)</b>	Built-in battery backup function (by EC solution)

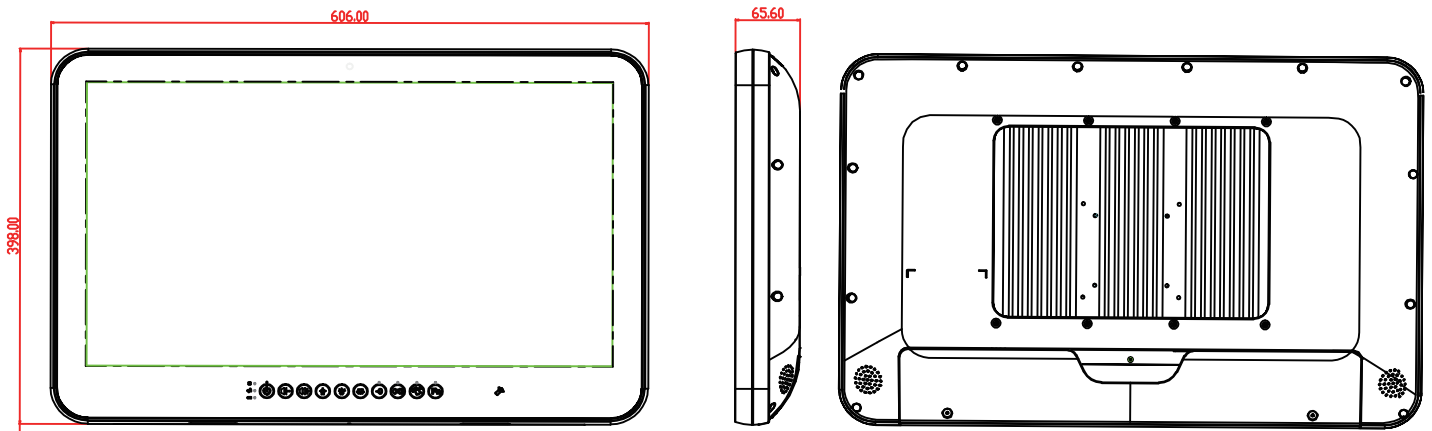
## Mechanical & Environmental

<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 (Pantone no. Cool grey 8C)
<b>IP rating</b>	IP65 – front side, IPx1 whole system
<b>Cooling</b>	Fanless
<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>	9 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 3rd version, FCC/VCCI class B / EN 60601-1 / EN60601-1-2:2007 / ISO 14971 / Energy star 6.1 compliance / IEC62133

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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, auto focus)
  - 28W battery pack
  - RFID reader (13.56Hz, USB)
  - PCI-E x16 or PCI riser card
  - Power adaptor w/ 2.4m or 3.6m DC cable
  - Anti-bacteria desktop stand (metal, white)
  - Equipotential terminal pin
  - TPM v1.2 module
  - Video Graphic card (PCI-E x 16)
  - PoE card (PCI-E x 4)
  - CFast card
  - AG Film
  - mSATA module
  - 2nd HDD
  - 4KV Isolation Card x 1  
(Isolation COM x 2, Isolation LAN x 1, Isolation USB x 1)



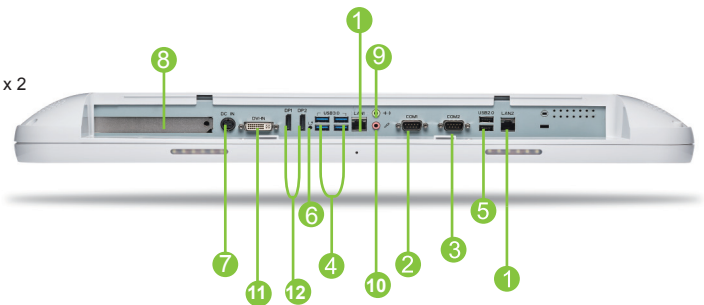
4KV Isolation Card

### Customization

- Add extra two COM ports
- Smart card reader / or DVD drive



## I/O Connectors



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



LED reading light bar



(Default without DVD)

## Ordering Information

- CPU: Core i5-4402E(default) / i3-4102E
- Memory: 2G / 4G / 8G / 16G
- HDD: 320G / 500G / 1TB
- 2nd HDD: 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
- Desktop stand: None / x 1
- TPM module: None / x 1
- Video Graphic card: None / x 1
- CFast card: None / x 1
- PoE card: None / x 1
- Equipotential terminal pin: None / x 1
- AG Film: None / x 1
- mSATA module: None / x 1
- 4KV Isolation Card: None / x 1



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