

# 17.3 Inch

## Capacitive Touch Screen All In One/ Monitor

(Model No. : TD173)



Version V2.0

# Catalog

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# 1 Product Overview

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## 1. 1 Introduction

TouchWo capacitive touch screen all-in-one /monitor is the most convenient & advanced human-machine interactive equipment. Which integrates many functions such as touch screen. Computer, multimedia, acoustics, network, industrial design and innovated structure etc. with pure flat structure combined with excellent performance of touchscreen to reach the real human-machine interactive.

## 1. 2 Features

- Capacitive Touchscreen: 10-point capacitive touch screen, 5 ms response;
- HD display: original panel with A type. Resolution 1920\*1080P, brightness 250cd/m<sup>2</sup>, pure color and natural;
- System compatible: touchscreen monitor/andorid or X86 touchscreen AIO pc;
- Performance steady: Each unit undergoes multiple tests such as aging, temperature and humidity testing, static electricity detection, vibration, high voltage, touch click, display, etc. to ensure stable quality and support 7\*24H work.;
- Structure crafts: private mould design, brand new frame sticker crafts, good seamless, waterproof IP65 at the surface, slim & pure flat structure., 7mm thickness only;
- Durable material: all aluminum alloy frame & back cover, Seamless welding, Corrosion and oxidation resistance;
- OEM services: Flexible to add serial and USB ports;  
(for example: color、logo、camera、LTE module、card reader、fingerprints module、POE power supply etc)
- Installation simply: wall mounted/desktop stand/embedded etc installations, plug and play. No need to debug

## 2 Technical Parameters

### 2.1 System Design

|                       |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| Output (Android AIO)  | Inside HDMI output                                                          |
| Input (touch monitor) | VGA、HDMI input                                                              |
| Touch function        | Original projected touchscreen, 10 fingers touch;                           |
| Display               | PC FHD HDMI support 1080P                                                   |
| Video decoding        | 1080P Full HD MPEG、H.264 etc                                                |
| Structure design      | Aluminum alloy frame, metal sheet back cover, round corner, embedded easily |
| System                | Display/AIO PC combined touch function, power switch                        |

### 2.2 LED Panel Parameters

|                  |                                                         |                   |              |
|------------------|---------------------------------------------------------|-------------------|--------------|
| Panel type       | LED panel (a-Si TFT-LCD WLED backlight) A type          |                   |              |
| Size             | 17.3 inch (16:9)                                        |                   |              |
| Display area     | 283.2 (W) *216.2 (H) mm                                 |                   |              |
| Max. resolution  | 1920*1080P                                              |                   |              |
| Brightness       | $\geq 250\text{cd/m}^2$                                 | Aspect ratio      | $\geq 800:1$ |
| Response time    | 10/15(Typ.)(Tr/Td)                                      | Refresh frequency | 60Hz         |
| No. Of colors    | 16.7M, 52% (CIE1931) EDP ports 30 Pins                  |                   |              |
| Angle of viewing | Full viewing 89/89/89/89 (Typ.)(CR $\geq 10$ )(L/R/U/D) |                   |              |
| Lifetime         | Min: 15000H; Max: 30000H                                |                   |              |

### 2.3 Touchscreen Parameters

|                             |                                                                    |                          |                           |
|-----------------------------|--------------------------------------------------------------------|--------------------------|---------------------------|
| Touchscreen Technology      | Projected capacitive touchscreen (PCAP)                            |                          |                           |
| Response Time               | < 5ms                                                              |                          |                           |
| Touch Points                | Standard 10 points touch, support zoom in/out pictures.            |                          |                           |
| Touch effective recognition | > 1.5mm                                                            | Touch data output method | Coordinate output         |
| Scanning frequency          | 200Hz                                                              | Scanning Precision       | 4096×4096                 |
| Communication               | Full speed USB 2.0, 3.0                                            | Theoretical clicks       | 5000M times above         |
| Firmware                    | USB upgrade                                                        | Drive                    | Free drive, plug and play |
| Working current / voltage   | 180Ma/DC+5V±5%                                                     |                          |                           |
| Anti-light interference     | Normal use when strong light such as sunlight, incandescent lamps, |                          |                           |

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
|                                | fluorescent lamps                                |
| Surface hardness               | Physical tempering, Mohs 6 explosion-proof glass |
| Operating system compatibility | Win 7/ Win 8/Win 10/CE/Mac/Android/Linux /XP     |

## 2.4 Electrical Performance

|                     |                     |                     |          |
|---------------------|---------------------|---------------------|----------|
| Input power         | 110-240V AC 50/60Hz | Output power        | DC 12V4A |
| Monitor consumption | < 20 W              | Standby consumption | < 0.5 W  |
| Android consumption | < 36 W              | Speaker power       | 4Ω3w     |
| X86 consumption     | < 48 W              |                     |          |

## 2.5 Working Environment

|                     |          |
|---------------------|----------|
| Working temperature | 0℃-50℃   |
| Working humidity    | 0% - 90% |
| Storage temperature | 0℃-60℃   |
| Storage humidity    | 0% - 65% |

## 2.6 AIO Configuration (Monitor parameter reference 3.1)

| Program        | Touch screen monitor                                                                | Android                                                  | X86 Standard version     | X86 Elite version                              | X86 Deluxe version                | OEM Service |
|----------------|-------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------|------------------------------------------------|-----------------------------------|-------------|
| Chip           | Need to connect computer to help work, more details pls check parameters<br><br>3.1 | Octa core RK3368<br>Quad core RK3288<br>Hexa core RK3399 | Intel Atom<br>Quad Z8350 | Intel Celeron<br>Quad J1900                    | Industrial motherboard<br>(I3、I5) | YES         |
| Ram            |                                                                                     | 2G/4G                                                    | 4G                       | 2G/4G/8G/16G                                   |                                   |             |
| Hard disk      |                                                                                     | Standrad 8G,<br>optional 16/32G                          | 32G                      | SSD:<br>32G/64G/128G/256G/512G<br>HDD: 500G/1T |                                   |             |
| Graphics cards |                                                                                     | Android HD                                               | Core Graphics            |                                                | Core Graphics<br>(Dedicated       |             |

|             |                                                                                            |                                    |                      |                                                                    |  |
|-------------|--------------------------------------------------------------------------------------------|------------------------------------|----------------------|--------------------------------------------------------------------|--|
|             |                                                                                            |                                    |                      | Graphics optional)                                                 |  |
| Resolution  |                                                                                            | 720P/1080P                         |                      |                                                                    |  |
| OS          |                                                                                            | Version 7.1.2<br>Inner core 4.4.71 | Windows10<br>OS only | Multi-touch: Win 7/ Win 8/Win 10/ Linux<br>Single-touch: XP/CE/MAC |  |
| Network     | Integrated 10/100 / 1000M adaptive network card, wireless network card 802.11a / b / g / n |                                    |                      |                                                                    |  |
| Input Power | 110-240V AC 50/60Hz                                                                        |                                    |                      |                                                                    |  |

## 3 Interfaces / Accessory

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### 3.1 Touch monitor interfaces

|                         |               |            |   |
|-------------------------|---------------|------------|---|
| Power cord              | 2.1mm DC12V*1 | Audio      | 1 |
| VGA input (15pin D-Sub) | 1             | HDMI input | 1 |
| USB touch interface     | 1             |            |   |

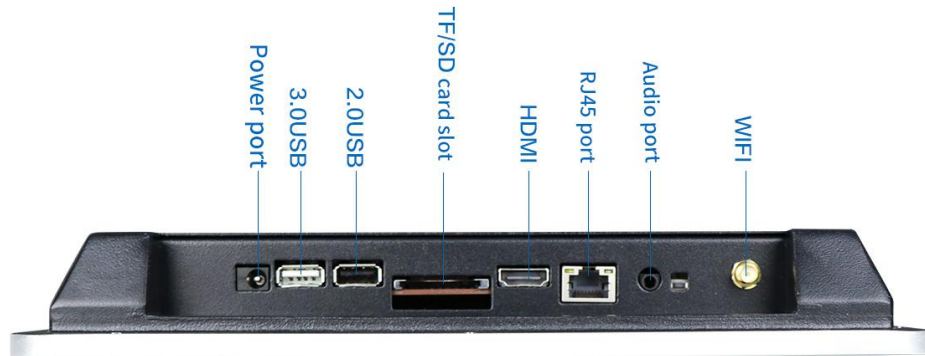
### 3.2 Android AIO interfaces

|                  |               |                            |   |
|------------------|---------------|----------------------------|---|
| Power cord       | 2.1mm DC12V*1 | Headphone                  | 1 |
| RJ45             | 1             | HDMI                       | 1 |
| USB (with OTG)   | 2             | WIFI antenna               | 1 |
| TF /SD card slot | 1             | TTL/232/485 serial options |   |

### 3.2 Windows AIO interfaces

|                  |               |                                       |   |
|------------------|---------------|---------------------------------------|---|
| Power cord       | 2.5mm DC12V*1 | Headphone                             | 1 |
| RJ45             | 1             | HDMI                                  | 1 |
| USB (with OTG)   | 4             | WIFI antenna                          | 1 |
| TF /SD card slot | 1             | 232/485 serial options (2 to 6 ports) |   |

## Product Ports



**Note:** Due to different motherboards, the corresponding interfaces and location may be different, subject to the actual product.

### 3.3 Accessory

|                    |                                                          |
|--------------------|----------------------------------------------------------|
| Specification      | 1pcs                                                     |
| AC power cable     | 1pcs                                                     |
| Power adapter      | 1set                                                     |
| Wall mount/bracket | 1set                                                     |
| Warranty           | 1set                                                     |
| Certificate        | 1set                                                     |
| HDMI/USB cable     | 1pcs for each （default 1.5 meter for touch monitor only） |
| WIFI antenna       | 1pc （default for touch aio PC only）                      |



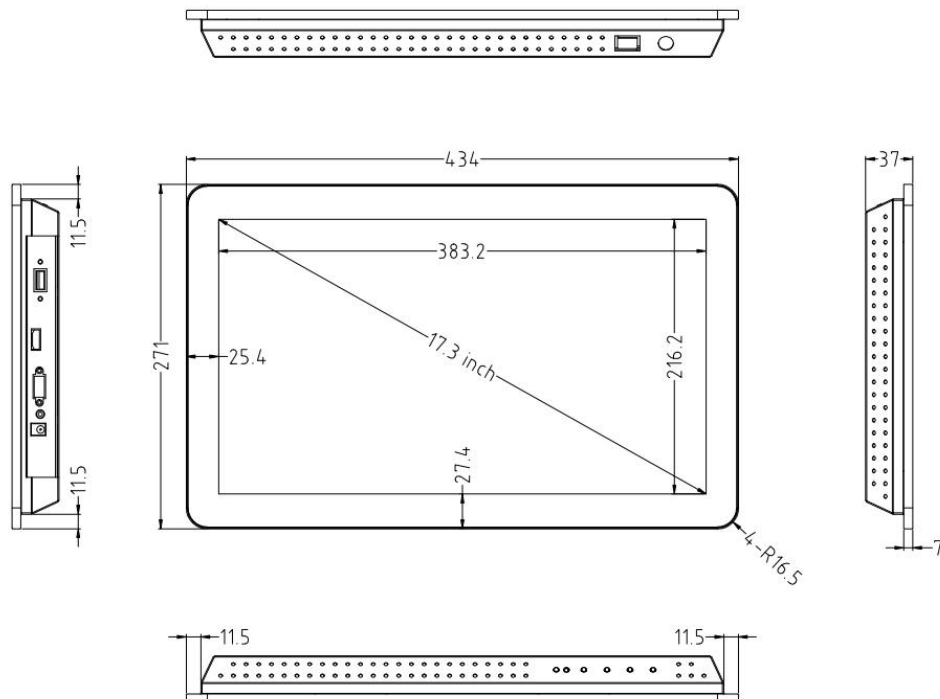
## 4 Structure/Drawing

### 4.1 Physical Dimension

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Screen                    | 17.3 inch                                        |
| Display area              | 383.2 * 216.2 mm (16: 9)                         |
| Machine dimension (W×H×T) | 434 (W) ×271 (H) ×37 (T) mm                      |
| Packing dimension (W×H×T) | 520 (W) ×450 (H) ×145 (T) mm                     |
| Stand                     | Wall mount default (N.W 0.48 kg) , Stand options |
| Wall mount holes (L×W)    | 100×100 mm                                       |
| Wall mount screws         | M4                                               |
| N.W                       | 3.06KG                                           |
| G.W                       | 5.05KG                                           |

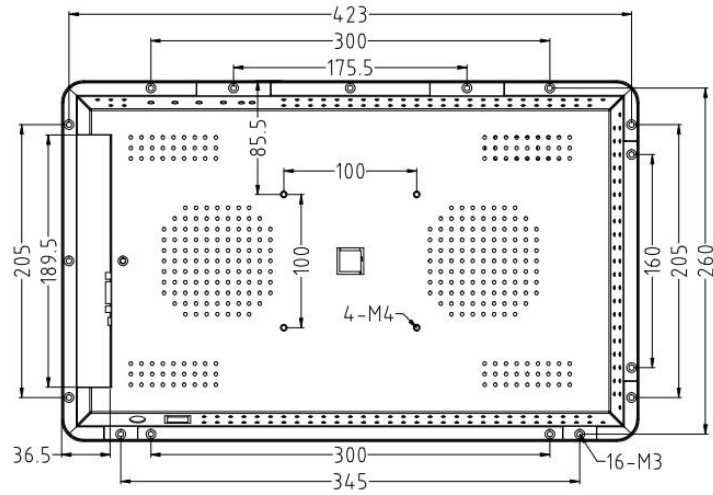
### 4.2 Drawings

Front View





Back View



## 5 Pictures

### 5.1 Products Views



**Note:** Due to different motherboards, the corresponding interfaces and location may be different, subject to the actual product.

## 5.2 Type

Black-silver black panel and rear shell, silver frame



Black-silver black panel , silver frame and rear shell



More colors could be customized, details please contact our sales.

## 5.3 Details



## 5.4 Installation



## 6 Warning

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- This device belongs to precision electronic equipment, the front IP65, the overall protection level is IPX3, should pay attention to avoid water splashing rain;
  - Do not place the device in a damp environment. Outdoor equipment needs to be equipped with a moisture-proof cover. When it rains or dews, it needs to be protected to prevent the water from entering the machine and the mold. The wet environment will accelerate the rapid aging of electronic components, thereby reducing the service life of the product and causing damage to parts.;
  - Do not leave the device exposed to strong UV light and direct sunlight for a long time. When the temperature is higher than 50 °C, the ultraviolet and high temperature illumination screen will accelerate the deflection of the liquid crystal molecules, and the screen will accelerate the aging. When the outdoor temperature is higher than 50 °C, it will be moved indoors or shaded.;
  - The brightness of the product is not less than 250cd/m<sup>2</sup>. When the ambient brightness is high, the screen display will be unclear. Please avoid placing it outdoors when the sunlight is strong.;
  - When the temperature is below 0 °C, the screen may not work properly due to the deflection of the liquid crystal molecules. It is not recommended to use below 0 °C.;
  - **The recommended ambient temperature for this product is 0-50 ° C and humidity is 0%-65%.**