



ALL-AROUND TOUCHING SOLUTION PROVIDER

TouchWo
触控·人机交互系统

43 Inch

Capacitive Touch Screen All In One/ Monitor

(Model No. TD43)



Guangzhou TouchWo Electronics Co., Ltd

Version V2.0



History Version

item	version	Issue date	Content	Writer	Approval
1	V1.0	2014.10.16	Initial released	黄沛雯	黄传祺
2	V2.0	2019.2.26	New revision of the specification	谢莲	黄传祺

Note: Except for the accessories listed with the product, the contents contained in this specification do not represent the company's commitment. The company reserves the right to change this manual without prior notice.

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Catalog

1、Product overview	1
1.1 Introduction	1
1.2 Features	1
2、Technical Parameters	2
2.1 System Design	2
2.2 LED Panel Parameters	2
2.3 Touchscreen Parameters	2
2.4 Electrical Performance	2
2.5 Work Environment	3
2.6 All In One Configuration	3
3、Interface & Accessory Parameters	4
3.1 Touch Monitor Interfaces Parameters	4
3.2 Android AIO Interfaces Parameters	4
3.3 Accessory	5
4、Physical Specs & Drawings	5
4.1 Physical Specs	5
4.2 Drawings	6
5、Pictures	7
5.1 Picture overview	7
5.2 Types	7
5.3 Details	8
5.4 Installation	8
6、Warning	9



1 Product Overview

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 350cd/m², pure color and natural;
- System compatible: touchscreen monitor/android/Windows 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., 17mm thickness only;
- Durable material: aluminum alloy frame & Metal 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/VGA output
Input (touch monitor)	VGA、HDMI,DVI input
Touch function	Original projected touchscreen, 10 fingers touch;
Display	HDMI/VGA support 1080P
Video decoding	1080P (Full HD) MPEG、H.264 etc
Structure design	Aluminum alloy frame, metal sheet back cover, round corner,
System	display combined touch function, power switch

2.2 LED Panel Parameters

Panel type	LED panel (a-Si TFT-LCD WLED backlight) A type		
Size	43 inch (16:9)		
Display area	943.2 (W) *531.4 (H) mm		
Max. resolution	1920*1080P		
Brightness	350 cd/m ²	Contrast	≥1400: 1
Response time	8(Typ.)(Tr/Td) ms	refresh	60Hz
No. Of colors	16.7M , 52% (CIE1931) LVDS ports 51 Pins		
Angle of viewing	Full viewing 89/89/89/89 (Typ.)(CR≥10)(L/R/U/D)		
Life time	Min: 30000H ; Max: 50000H		

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	Win 7/ Win 8/Win 10/CE/Mac/Android/Linux /XP

2.4 Electrical Performance

Input	110-240V AC 50/60Hz	Standby	< 0.5 W
Monitor	< 90 W	Android	< 95 W
Windows	<120W	Speaker power	8Ω5W

2.5 Working Environment

Working temperature	-10℃-60℃
Working humidity	0% - 90%
Storage temperature	0℃-60℃
Storage humidity	0% - 65%

2.6 AIO Configuration

Program	X86 version
Chip	Industrial Motherboard (15) Processor Max Turbo Frequency (2.70 GHz) Base Frequency (1.60 GHz) Cache (3MB) CPU Cores/Thread (2/4)
Ram	8G DDR3
Hard disk	SSD: 256G
Graphics cards	Core Graphics
Resolution	720P/ 1080P
Network	Integrated 10/100 / 1000M adaptive network card, wireless network card 802.11a / b / g / n
Input Power	110-240V AC 50/60Hz
Operating System	Win 7/ Win 8/Win 10

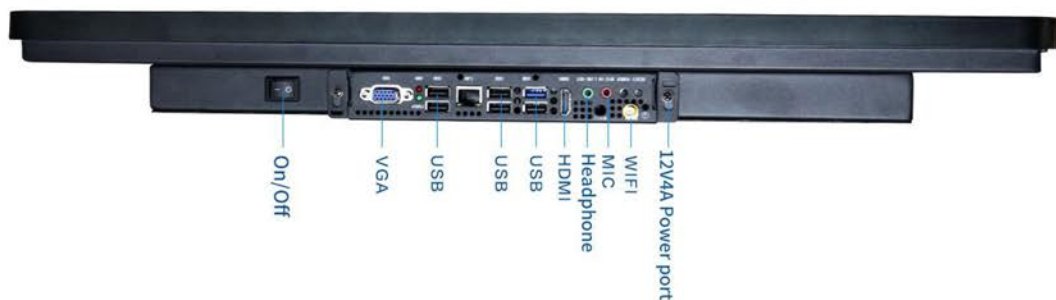


3 Interfaces/ Accessory

3. Windows AIO interfaces

DC port	1	RJ45	1
VGA output (15 pin D-Sub)	1	HDMI	1
USB	4(2*2.0, 2*3.0)	Headphone /MIC	1/1
WIFI antenna	1	232/485 serial ports options (2 pcs)	

Product Ports



Note: Different motherboards may have different interface positions, which are subject to the actual product.



3.4 Accessory

Specification	1 pcs
AC power cable	1 pcs
Power adapter	1 set
Wall mount/bracket	1 set
Warranty	1 set
Certificate	1 set
WIFI	1 pcs (Only for Windows/Android)



Product Manual

Warranty card
Certificate

Power line

Wifi Antenna
(only for touch PC)HDMI line
(For monitor only)USB line
(For monitor only)

Standard wall mount

4 Structure/Drawing

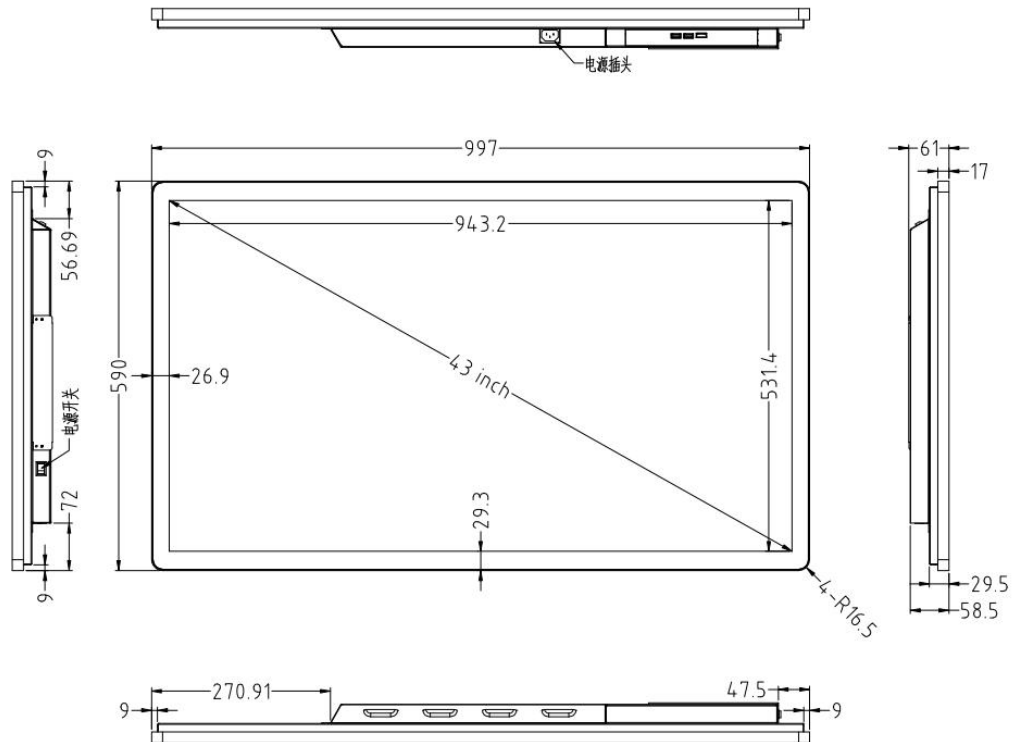
4.1 Physical Dimension

Screen	43 inches
Display area	943.2* 531.4 mm (16: 9)
Machine dimension (W×H×T)	997 (W) ×590 (H) ×61 (T) mm
Packing dimension (W×H×T)	1160 (W) ×740 (H) ×210 (T) mm
Stand	Wall mount default (N.W 1.64 kg) , Stand options
Wall mount holes (L×W)	300×300 mm
Wall mount screws	M4
N.W	25.7 KG
G.W	36 KG

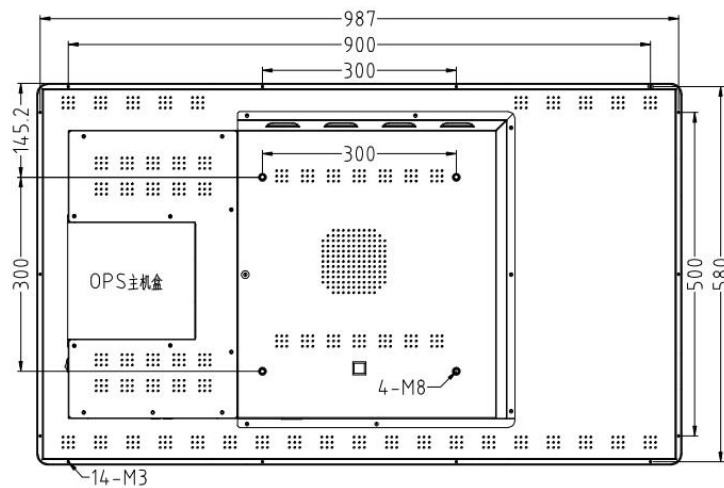


4.2 Drawings

Front View



Back View





5 Pictures

5.1 Products Views



(Note: Due to different motherboards, the corresponding interface and position at the bottom are different, subject to the actual product)

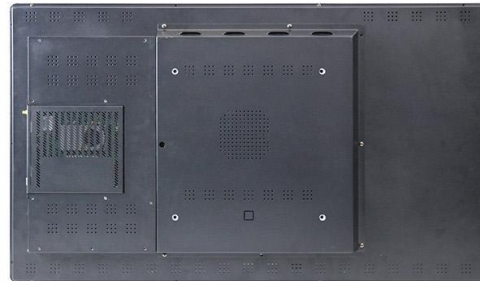
5.2 Details



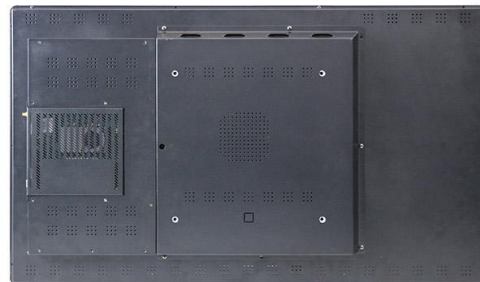


5.3 Type

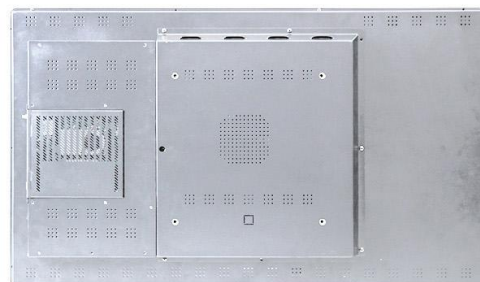
Black-silver black panel and rear shell, silver frame



All-black, black panel, frame and back shell



White-silver, white panel and rear shell, silver frame



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



5.4 Installation



Wall mount bracket



S type base



Penguin base



Moving bracket

Base color can be selected. Pls contact sales to get more details.

6 Warning



- 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/m2. 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 -10-60 ° C and humidity is 0%-90%.