



21.5 inch Capacitive Self Query Machine (Model:KD215B)



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We apologize that if something changed without notice.

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1 Product Overview

1.1 Introduction

TouchWo self inquiry machine 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 Touch: 10-point capacitive touch screen, 5 ms response;
- HD display: original panel with A type. Resolution 1920*1080P, brightness 250cd/m², pure color and natural;
- System compatible: touchscreen monitor/android/Windows touchscreen AIO pc optional;
- Stable performance: each unit undergoes multiple tests such as whole machine aging, temperature and humidity testing, static electricity detection, vibration, high voltage, touch click and display to ensure stable quality and support 7*24H work;
- Structure crafts: private mould design, pure flat and slim style, new backlight integrated structure, good sealing, surface IP65 waterproof;
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- OEM services: Flexible to add serial and USB ports;
(color, logo, camera, 4G module, card reader, fingerprints module, POE power supply., etc)
- Simple Installation : wall mounted/desktop stand/embedded etc installations, plug and play. No need to debug;



2 Technical Parameters

2.1 System Design

Output (AIO pc)	Inside HDMI/VGA output
Input (touch monitor)	VGA、HDMI,DVI input
Touch function	Latest projected capacitive touchscreen, 10 fingers touch
Display	HDMI/VGA support 1280*1024
PC	MPEG、H.264,etc
Structure design	Full sheet metal structure, no sharp corners, ultra-thin and lightweight
System modules	Combined PC,display,touch all-in-one

2.2 LED Panel Parameters

Panel type	LED panel (a-Si TFT-LCD WLED backlight), A grade		
Size	21.5 inch (16: 9)		
Display area	477.6 (W) *269.1 (H) mm		
Max. resolution	1920*1080		
Brightness	$\geq 250\text{cd/m}^2$	Contrast	$\geq 1000: 1$
Response time	14(Typ.)(Tr/Td) ms	Refresh	60Hz
No. of colors	16.7M , 52% (CIE1931) LVDS 30 Pins		
Angle of viewing	Full viewing85/85/85/85 (Typ.)(CR ≥ 10)(L/R/U/D)		
Life time	30000H		

2.3 Touchscreen Parameters

Touch 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	Coordinate output
Scanning frequency	200Hz	Scanning Precision	4096 \times 4096
Communication	Full speed USB	Theoretical clicks	5000M times above
Firmware	USB upgrade	Drive	Free drive, plug and
Working current / voltage	180Ma/DC+5V \pm 5%		
Anti-light interference	Normal use when strong light such as sunlight, incandescent lamps,		
Surface hardness	Physical tempering, Mohs 7 explosion-proof glass		
Compatible OS	Win 7/ Win 8/Win 10/CE/Mac/Android/Linux /XP		



2.4 Electrical Performance

Input	110-240V AC 50/60Hz	output	DC 12V4A
Monitor	< 24 W	Standby	< 0.5 W
Android	<36W	Speaker power	8 Ω 5W
Windows	<48W		

2.5 Working Environment

Working temperature	0°C -50°C
Working humidity	10% - 80% Relative humidity
Storage temperature	-5°C -60°C
Storage humidity	10% - 70%

2.6 AIO Configuration options

Program	Android	X86 Standard version	X86 Elite version	OEM Service
Chip	Octa core RK3288 Octa core RK3568 Hexa core RK3399	Default: Intel N5095/J3710/ J4125/J1900 (Standard with OPS)	Industrial board I3/I5/I7 (Standard with OPS)	Yes
Ram	2G/4G	2G/4G/8G/16G		
Hard disk	Standrad with 8G	SSD: 32G/64G/128G/256G/512G		
	16/32G optional , expandable	2.5 inch HDD: 500G/1T (optional)		
Graphics cards	Android HD	Core Graphics		
Resolution	720P/1080P			
OS	Verion 7.1 (3568,version 11.0)	Win 7/ Win 8/Win 10/ Linux		
Network	Integrated 10/100 / 1000M adaptive network card, wireless network card 802. 11a/b/g/n			



3 Interfaces / Accessories

3.1 Android AIO interfaces

DC port	1	Headphone /MIC	1
RJ45 network cable interface	1	HDMI Input	1
USB interface (including OTG)	2	WIFI	1
TF/SD card slot	1	Optional TTL/232/485 serial port according	

3.2 Windows AIO interface parameters

DC port	1	RJ45 network cable interface	1
VGA output (15-pin D-Sub)	1	HDMI Input	1
USB	4	Headphone /MIC	1/1
WIFI	1	Optional TTL/232/485 serial port according	

3.3 Accessories

Instruction manual	1	USB/HDMI	Each one (only touch display is standard)
Certificate	1	key	2
Warranty card	1	WiFi Antenna	1 个 (PC/Android standard only)
AC Power cable	1		





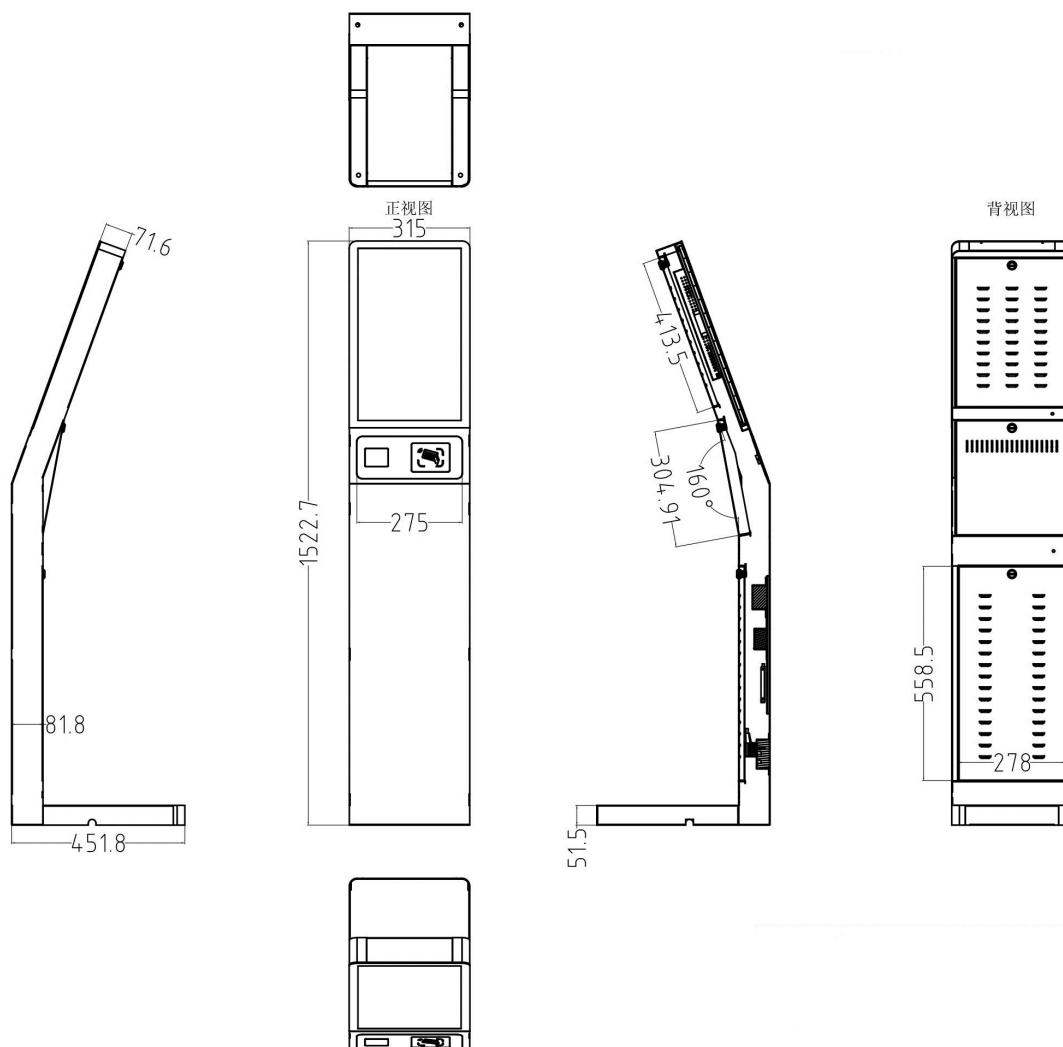
4 Structure/Drawing

4.1 Physical Dimension

Screen	21.5 inch
Display area	269.1 * 477.6 mm (16: 9)
Machine dimension (W×H×T)	315 (W) × 1522.7 (H) × 451.8 (T) mm
Packing dimension (W×H×T)	1480 (W) × 330 (H) × 100 (T) mm
N.W	23 kg
G.W	27.2kg

Different packaging methods, packaging size and gross weight will be different, the actual situation shall prevail

4.2 Drawings





5 Pictures

5.1 Product Views



5.2 Product style map





5.3 Peripherals



(Please contact our sales staff for specific parameters)

Receipt printing (optional)

plan	Standard version (standard)	Upgraded version	Ultimate
model	HS-QR24	HS-EC58	HS-EC80
Specification parameter	Interface type: USB, RS232, TTL Printing speed: 50mm/s Printing width: 48mm Paper width: 58mm Voltage: DC 12V Paper size: 58mm Resolution: 8dots/mm (384 dots/line) Paper diameter: MAX (30mm)	Interface type: USB, RS232, TTL Printing method: line thermal Printing speed: 50mm/S Printing density: 384 dots/line Printing width: 48mm Resolution: 203DPI Input voltage: DC 12V Paper width: 58mm Paper diameter: MAX (50mm) Support automatic paper cutting function	Interface type: USB, RS232, TTL Printing method: line thermal Printing speed: 130mm/S Printing density: 384 dots/line print width: 72mm Resolution: 203DPI Input voltage: DC 12V Paper width: 80mm Paper diameter: MAX (50mm) Support automatic paper cutting function



QR code scanner (Optional)

plan	Standard version	Ultimate
model	XN-1065	ZD7100
Specification parameter	<p>Interface type: USB interface</p> <p>Resolution: 1.3 million COMS</p> <p>Recognition accuracy: 3 MIL</p> <p>Light source: LED (630NM±10NM)</p> <p>Field of view angle: horizontal $\geq 45^\circ$ vertical $\geq 34^\circ$</p> <p>Reading distance: 25MM-240MM (15mil QR)</p> <p>Rotation 360° Deflection $\pm 65^\circ$ Tilt $\pm 65^\circ$</p> <p>High recognition accuracy, long distance and fast recognition speed</p>	<p>Interface type: USB interface</p> <p>Light source: 6500K LED</p> <p>Sensor image count: 752 X 480</p> <p>Rotation Tilt Deflection: 360° , $\pm 65^\circ$, $\pm 60^\circ$</p> <p>Bar code accuracy: 5mil Ccde39</p> <p>two-digit barcode: PDF417, MicroPDF417, Data Matrix, Maxicode, QR Code, MicroQR, AztecHanxin, etc</p> <p>High recognition accuracy, complete code system, large angle</p> <p>Fast recognition</p>

4G module (optional)

plan	Standard Edition	Ultimate
model	EC20CEHDLG-MINIPCIE-CB	EC20CEFILG-MINIPCIE-C
Specification parameter	<p>Interface type: MINI-PCIE</p> <p>7-mode full Netcom: support China Mobile, China Unicom, Telecom</p> <p>8-Mod: LTE-TDD/LTE-FDD/TD-SCDMA/UMTS /EVDO/EDGE/GPRS/GSM/CDMA/GPS</p> <p>LTE-TDD/LTE-FDD standard: Uplink and downlink rates can reach 50Mbps and 150Mbps</p> <p>3G support : TD-SCDMA/UMTS/ CDMA /EVDO)</p> <p>2G support: EDGE/GPRS/GSM network</p> <p>Module function: only pure data function, that is, only card reading, no GPS, no voice</p>	<p>Interface Type: MINI-PCIE</p> <p>7-mode full Netcom: support China Mobile, China Unicom, Telecom</p> <p>8-Support format: 9-LTE-TDD/LTE-FDD/TD-SCDMA/UMTS/ EVDO/EDGE/GPRS/GSM/CDMA/GPS</p> <p>LTE-TDD/LTE-FDD standard: Uplink and downlink rates can reach 50Mbps and 150Mbps</p> <p>3G support : TD-SCDMA/UMTS/ CDMA /EVDO)</p> <p>2G support: EDGE/GPRS/GSM network</p> <p>Full-featured module: including data, voice (telephone function), GPS positioning</p>

**Card reader (Optional)**

model	M2	M8	M13
supporting agreement	ISO14443A	ISO14443A	ISO14443A
support card	Mifare (1K/4K) ; NXP S50,NXP S70, Fudan MicroF08, Ultralight	IC (Mifare1	Mifare(1K/4K); NXP S50,NXP S70, Fudan Micro F08, CPU card
operating system	Windows98、XP、Win7、8、ME、2003、VISTA、LIUNIX、UNIX、Android	Windows all、LIUNIX、UNIX、Android	Windows98、XP、Win7、8、ME、2003、VISTA、LIUNIX、UNIX、Android
Card reading distance	0-60mm	0-40mm	0-60mm
communication rate	9600~115200bps	9600bps	9600~115200bps
Communication Interface	TTL、RS232	TTL、RS232、USB	TTL、RS232、USB
working frequency	13.56MHZ	13.56MHZ	13.56MHZ

GPS (Optional)

plan	Standard Edition
型号	DL-4538-2M4P5V-GCG
Specification parameter	Interface type: TTL serial port GPS&QZSSL1 1575.42MHzC/A,B1 1561.098MHz For Android



5.4 Applications



◀ Public Security



◀ Smart library



◀ Hospitals



◀ Shopping Malls