

49 inch infrared touch all-in- one computer

Model : TZ 490BG03



R&D Department		
compile	Check	Approval
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Change record

1. Product introduction

- ① The wall-mounted layout structure can be matched with any structural design, and the structure is more matched.
- ② Support horizontal screen/vertical screen playback, support 180-degree rotation.
- ③ Maximum 1080P (requirement: 1920*1080).
- ④ Adopt high-definition, high 3D, and top digital decoding and the latest shooting technology, using image processing

Which make the display clearness with realistic color.

- ⑤ When automatically notified, it can be automatically switched with a single display routing port to the channel, and also support manually setting the automatic routing to select a signal source.
- ⑥ High-definition screen disable function, when the screen is displayed for a long time, it can effectively prevent the display from being burned out, and expand the display screen.
- ⑦ The touch function of the machine's micro-screen adopts the touch function of Rockchip. Using Rockchip as the Android system, with its own WIFI; it supports 4K video module decoding, HDMI-4K@60Hz output; the board has its own hardware R watchdog, support remote control switch and network timing recognition machine, support remote OTA upgrade; support face function expansion; support various communication expansion; can realize the operation of various network ports.
- ⑧ Standard design, which can continuously support the industrialization of 365*24 hours of work.

2. Introduction of product parameters

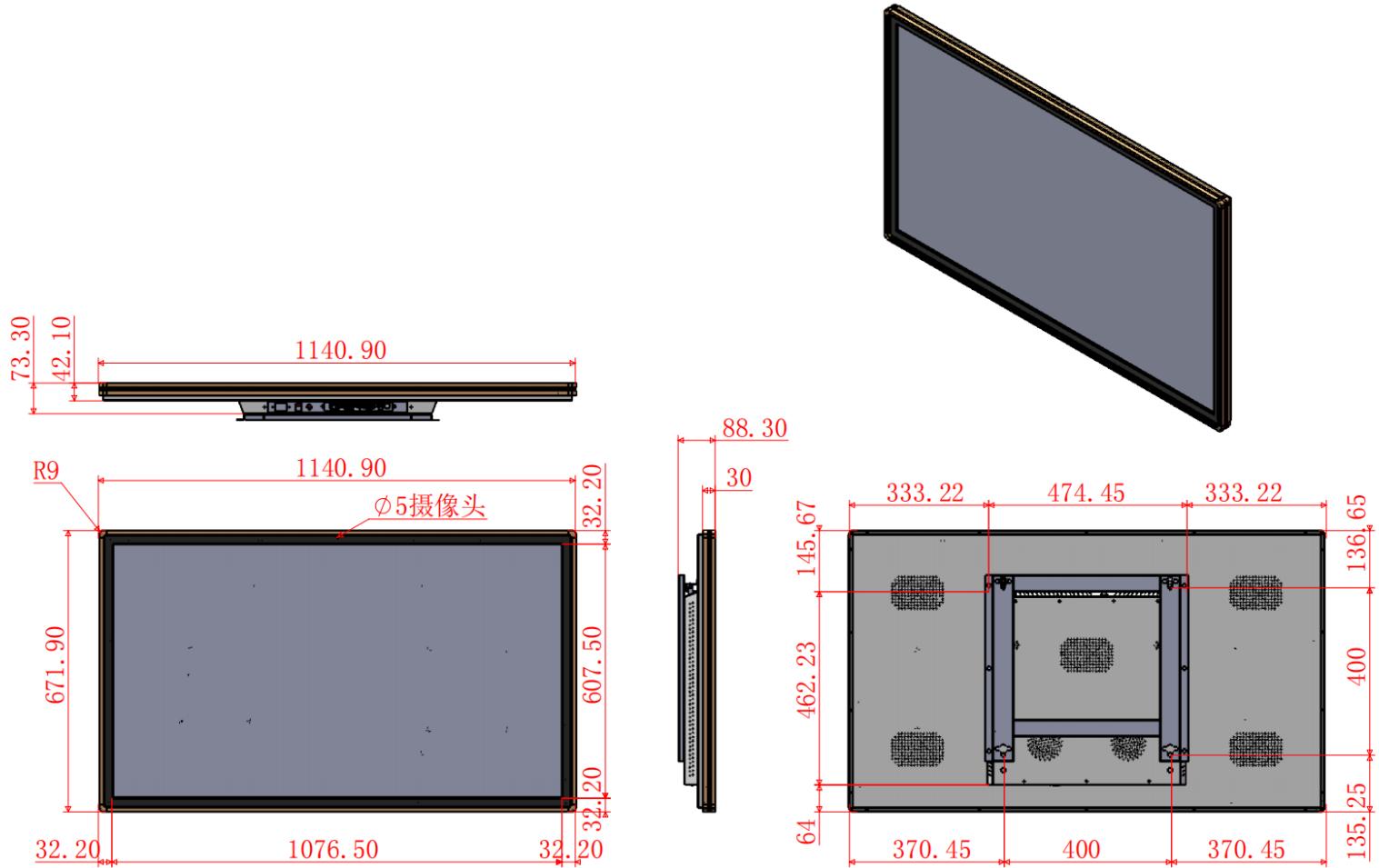
Product name	49 inch infrared touch all-in-one machine	
Model	T Z 490BG03	
LCD panel parameters	Display area	1073.8 mm(H)* 604 mm(V)
	Display scale	16 : 9
	Resolution	1920*1080
	pixel pitch	0.55926mm * 0.55926mm
	Viewing angle	Full View 89/89/89/89
	Response time	8 ms

	Contrast	1 000:1
	brightness	350 cd / m ²
	color	16.7M , 72% NTSC
Backlight parameters	Backlight structure	side entry
	Backlight	led
	Backlight life	> 50,000 hours
Motherboard parameters	CPU	RK3288, Quad-core ARM-A17, 1.8GHz
	GPU	Mali-T764
	Memory	DDR 2GB
	Built-in memory	EMMC 8G
	operating system	Android 7.1
interface parameters	power supply	12V/ DC input
	HDMI	HDMI2.0 Output up to 4K@60HZ
	LVDS	1 dual-eight LVDS+ backlight interface Output up to 1920X1080
	MIPI	MIPI-DSI-40PIN-FPC Output up to 1200*1920
	USB	5 USB hosts and 1 OTG USB
	Serial port	2 TTL serial ports, 1 debug serial port
	Touch	1 I2C touch screen interface
	GPTO	4 general-purpose GPIO ports
	Remote control and lights	1 remote control, 1 red light, 1 green light
	Ethernet	Support 100M adaptive Ethernet
	wireless network	Support WIFI-2.4G, BT-4.1
	Loudspeaker	Support speaker interface, up to one 8Ω 5W Two-channel speaker output
	Audio	Support left and right channels, support one MIC interface
touch parameter	Tempered glass	4 mm thickness AG anti-glare
	Touch type	Infrared touch
	Touch points	10 points
	Touch accuracy	± 2 mm
Power parameters	Operating Voltage	A C 100-240V input
	Maximum power	80W
storage environment	Temperature	- 20 °C- 60 °C
	Humidity	5 %- 90 %
Work environment	Temperature	0 °C - 50 °C
	Humidity	5 %- 90 %
Appearance information	Dimension	length 1140.9 mm * width 671.9 mm * thickness 88.3 mm
	Front protection level	IP65

3, Product factory inspection

EMC	EMI conducted interference, electromagnetic radiation	GB13837<<Audio and TV broadcast connection Receivers and related equipment radio show disturbance characteristics Limits and Measurement Methods >>
	EMS electrostatic immunity	GB17626.2-2008 IEC61000-4-2 4 grade standard Contact discharge 4KV Air discharge 8KV
	EMS Tolerance of pulse group	GB17626.4-2006/ ±1kV
	EMS Lightning Surge	GB17626.5-2006 ±1KV
Safety	Pressure resistance	Power supply poles and input/output terminals AC1500V 60S Leakage current is less than 10MA
	Insulation	Power supply poles and input/output terminals DC500V 60S > 4MΩ
	Ground resistance	25A 60S < 0.1Ω
Factory inspection	Electrical properties	Complies with the inspection requirements of "Taizhong Electronic LCD digital signage Factory Inspection Specification".
	Dimensions	Consistent with the external dimensions required by customers, Or consistent with the description of the product specification.
	Attachment check	Consistent with the description of the product specification.
	Drop test	Height 450- 500mm, six sides and three edges, Test time is 10min.
	LCD screen dead pixel standard	Meets the SJ/T11343-2015 Specification requirements .

4, Product dimension drawing and parameters



5 , Product precautions

There is high voltage in this machine, please do not open the case, and there are no parts inside the machine for the user to repair, professional technicians should be entrusted for maintenance.

Improper operation methods may cause electric shock or fire accident. To ensure your safety and the service life of the LCD screen, please read carefully the following safety precautions before use:

Do not use accessories that are not recommended by the manufacturer, as improper use of the settings may cause unexpected malfunctions.

Do not press or entangle the power cord with anything. Broken power cords can cause electric shock or fire.

Please do not attempt to repair the unit by yourself, as there are high-voltage devices and other fragile components in the unit, which will cause various hazards to the human body or the monitor itself.

It must be repaired by a professional repairman.

When the machine needs to be replaced, please confirm to the maintenance personnel or professional technicians to use the accessories specified by the manufacturer or with the same performance as the original.

Improper or accessory use may cause dangers such as fire, electric shock, monitor damage, etc.

Before cleaning the machine, unplug it from the power source. Use a slightly damp cloth to clean it. Do not use liquid crystal cleaners or spray cleaners when cleaning.

When not using the machine for a long time, please unplug the AC power plug.

The LCD panel of this machine is made of sensitive materials, do not rub the active matrix LCD with hard objects, otherwise it will scratch or permanently damage the LCD;

Do not press the LCD screen for a long time, otherwise there will be afterglow.

The LCD panel is manufactured with high-precision technology and contains more than 99.99% of effective pixels, but less than 0.01% of pixels may be missing or deterministic

Light (red, green, blue). However, this does not mean that the display screen is faulty, please continue to use it with confidence.

Do not place this unit in direct sunlight or near heat sources such as radiators, heaters, stoves, and other heat-producing objects

The time interval between each switch is not less than 2 seconds.

To ensure normal use of this product, do not shock or impact the machine during use.

Electrical interference

This product has the potential to interfere with medical and aviation equipment. Before using this product in a hospital or on an airplane, please consult a medical or airline staff member.

Liquid crystals

If the display is damaged, avoid touching the liquid crystal. In the event of any of the following situations, take emergency measures as instructed.

If liquid crystals come into contact with your skin, clean the area with a cloth, then apply soap and rinse thoroughly with water.

If liquid crystal gets in your eyes, flush infected eyes with water for at least 15 minutes and then seek medical attention.

If liquid crystal is swallowed, rinse your mouth thoroughly with water. Drink plenty of water to induce vomiting, then seek medical attention.

Other declaration

Specifications are subject to change without notice. The company has the final right to interpret the instructions in this manual.

The display is manufactured using high-precision technology, however, sometimes small bright spots or color anomalies appear on the display. This is such a normal phenomenon, not a malfunction, please use it with confidence.

When encountering strong radio interference (such as electromagnetic fields, static electricity, or line noise), the display may not display properly.

After sell services

This product is guaranteed to be replaced within three months from the date of sale, and has a one-year free warranty. (except for man-made damage or irresistible factors)

Warning Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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