

itc



TS-FZ156T/TS-FZ173T/TS-FZ215T

Ultra-thin HD LCD Flipper III

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Document description

Before using this product, please read this manual in detail and keep it well for reference. Read the safe operation guide carefully. Note: ⚡ means danger, ⚠ means attention!

This manual is only for user operation instructions, not for maintenance services. The deadline for the described functions is December 30, 2021. The functions or related parameters after this date will be changed and will be supplemented without notice. For details, please consult the dealers.

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The product pictures in this manual are for reference only. Please refer to the actual product.

The machine: ultra-thin HD LCD flipper

Safe Operation Guide

In order to ensure the equipment reliability and the personnel safety, please observe the following during installation, use and maintenance:

 Danger
<ul style="list-style-type: none"><input type="checkbox"/> There are live parts in the equipment. Non-professionals should not disassemble the equipment without permission to avoid electric shock.<input type="checkbox"/> Do not disassemble the equipment when it is powered on or running to avoid electric shock.<input type="checkbox"/> In case of electric shock, do not operate the equipment with wet hands.<input type="checkbox"/> It is strictly forbidden to use the equipment in an environment with flammable materials, explosive gases or heat sources.
 Attention
<ul style="list-style-type: none"><input type="checkbox"/> It is strictly forbidden to spill any corrosive chemicals or liquids on or near the equipment.<input type="checkbox"/> Do not block the heat dissipation holes, and keep the working environment well ventilated, so that the heat generated by the equipment during operation can be discharged in time, so as to avoid excessive temperature and damage to the device.<input type="checkbox"/> Do not place the equipment on an unstable surface to avoid damage caused by the accidental falling.<input type="checkbox"/> In order to avoid the equipment damage caused by strong vibration during transportation, it is recommended to use appropriate packaging or use the original packaging.<input type="checkbox"/> Do not squeeze the power lines and the equipment with heavy objects.<input type="checkbox"/> The equipment must use a grounded power supply.

- Do not repair it privately, so as not to aggravate the damage to the equipment.
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- When moving the equipment, be careful not to drop it to avoid personal injury or equipment damage.
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- Turn off the main power supply of the equipment when it is in a humid environment or not in use for a long time.
-
- Being stored for a long time, the equipment shall be inspected and debugged before use.
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- Before cleaning the equipment, the equipment must be powered off, and please clean the equipment with a dry cloth.
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- Please dispose of equipment as industrial waste and strictly prohibit incineration.

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1. Description

An integrated computer and monitor lift, it is used on the conference table. This new product is more practical for supporting paperless conferences. It is equipped with a LCD touch screen, and integrates the functions of HD video, unified communication, intelligent multi-screen interactive sharing, intelligent conference control, audiovisual acquisition and sound system, etc. And a "people-oriented" intelligent conference is created through panel button control, RS232 command control, RS485 command control, and software control.

Just press the "up" button on the panel, and the monitor that is flush with the desktop will automatically turn over 60 degrees and be at a certain angle to the desktop. And press the "down" button to lower the display back to its original position; the LCD screen will automatically cut off the power and keep flush with the desktop, so as to achieve high conference efficiency, beautiful desktop, and space saving. It is also anti-theft, dust-proof.

2. Feature

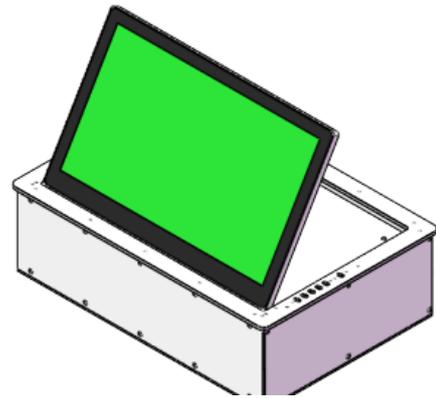
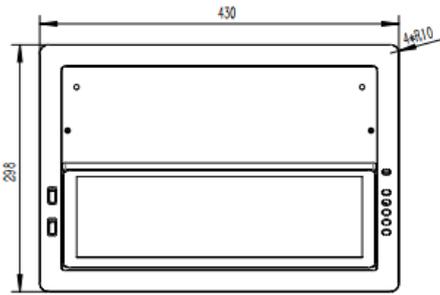
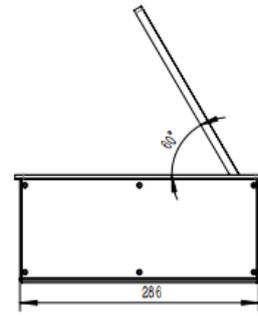
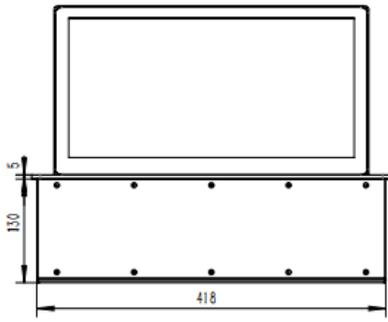
- (1). The equipment adopts all-aluminum structure, high-quality aluminum and CNC processing; the display frame is a whole aluminum alloy CNC one-time molding; the cabinet is made of aluminum alloy, making the equipment as a whole exquisite, light, beautiful.
- (2). The surface treatment of the equipment is anodic oxidation treatment with bright color. It can be treated with sandblasting, wire drawing and other processes, and various colors can be customized.
- (3). Multi-point capacitive touch screen, and the toughened glass, which has a certain degree of pressure resistance.
- (4). With power-off protection function, the screen is powered when it is turned up, and is powered off when turned down.
- (5). The high-definition screen is a well-known brand, and the A-standard display is adopted, with high resolution, bright and transparent colors. Resolution: 1920*1080P; aspect ratio 16:9.
- (6). The screen is flipped forwards, which ensures zero shaking of the screen when it is touched.
- (7). The transmission part adopts unique parts to keep the overall turning and running smoothly, without jitter, pause and other uncoordinated actions.
- (8). It supports HDMI and VGA signal inputs. When there is only one signal input, the screen will automatically recognize the signal. When two signals are input at the same time, it can be manually switched through the panel buttons. When there is no signal input, the screen will automatically enter power-saving mode.
- (9). This equipment can be controlled by the central control software, the remote control or the controller; all the equipment in the room can be turned over or lowered with one button.

3. Specification

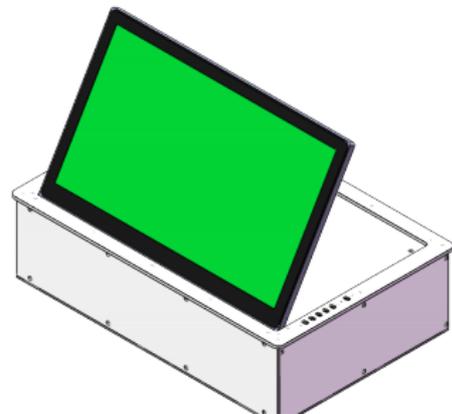
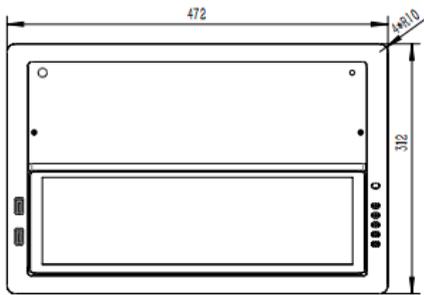
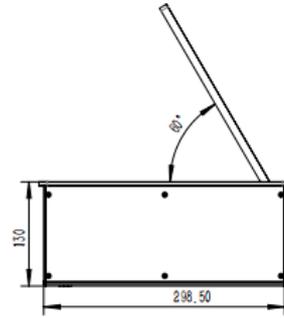
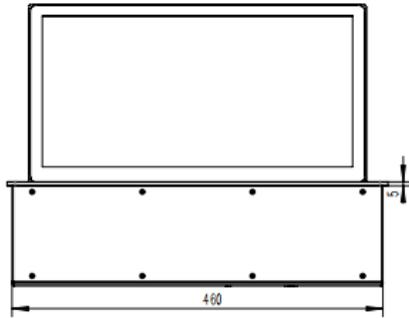
Model	TS-FZ156T	TS-FZ173T	TS-FZ215T
Product size	430*298*130MM	472*312*130MM	568*372.5*130MM
Cabinet size	418*286*125MM	460*298.5*125MM	556.5*358.5*125MM
Desktop opening size	419*287MM	461*299.5MM	557.5*359.5MM
Panel sinking size	431*299*5MM	473*313*5MM	569*373.5*5MM
Chamfer angle	4*R=10MM	4*R=10MM	4*R=10MM
Elevation angle	0-60°	0-60°	0-60°
Video interface	HDMI/VGA	HDMI/VGA	HDMI/VGA
Screen resolution	1920*1080	1920*1080	1920*1080
Operating voltage	220V 50/60HZ	220V 50/60HZ	220V 50/60HZ
Contrast	500: 1	800: 1	1000:1
Aspect ratio	16: 9	16: 9	16: 9
Brightness	220cd/m ²	300cd/m ²	250cd/m ²

4. Opening size

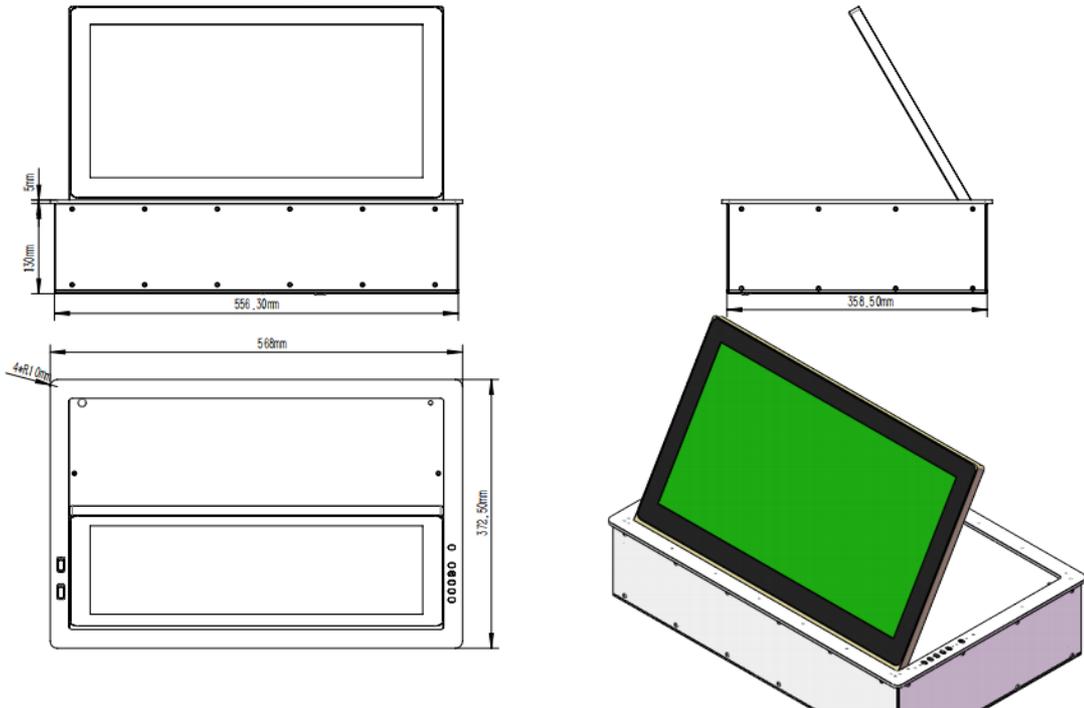
TS-FZ156T Opening diagram



TS-FZ173T Opening diagram



TS-FZ215T Opening diagram



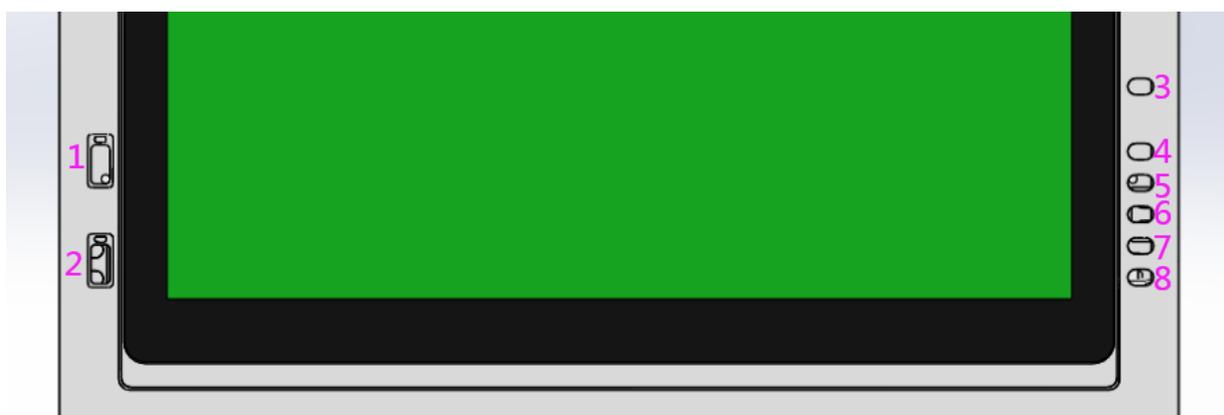
5. Packaging list

Number	Accessory	Note
1	Ultra-thin LCD flipper	1
2	Power line	1
3	Touch data line	1
4	User manual	1
5	Serial line	1

This machine is strictly packaged before leaving the factory. Please confirm whether the products and accessories are damaged, deformed or missing before usage. If necessary, please contact the dealer.

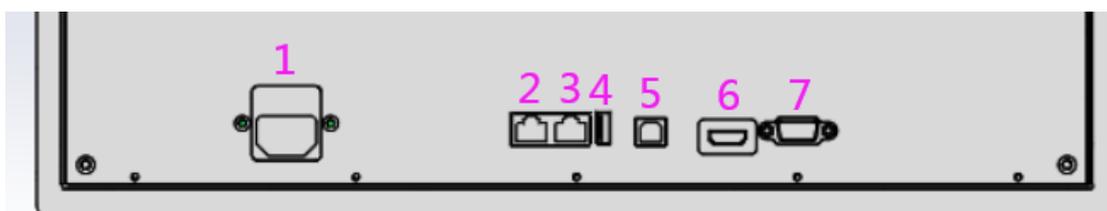
6. Appearance and structure description

6.1 Front panel



Number	Name	Description
1	USB	Read data
2	USB interface	Data interface
3	Computer controller switch button	Control the power on/off function of the computer controller.
4	Menu button	When there is a signal displayed on the screen and the screen parameters need to be adjusted, press the menu to adjust them
5	Signal switching button	If VGA and HDMI signals are connected at the same time, they can be switched through this button
6	Up button	Control screen rising (adjustable elevation angle 0-60°)
7	Pause button	Pause the screen rising or lowering at any time
8	Down button	Control screen lowering (adjustable elevation angle 60-0°)

6.2 Rear panel (from left to right)



Number	Name	Description
1	Power interface	Used to connect with power line
2	Central control 232/485 network interface	Used to connect with central 232/485 control system, support hand-in-hand connection

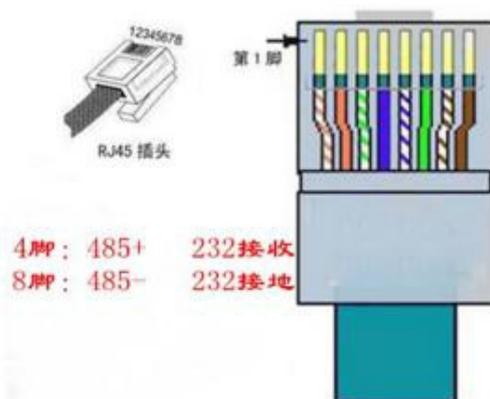
3	Central control 232/485 network interface	Used to connect with central 232/485 control system, support hand-in-hand connection
4	Power on/off USB interface	Connected to the computer controller USB
5	Data interface	Used for touch screen data transmission
6	HDMI interface	Used for HDMI video signal input
7	VGA interface	Used for VGA video signal input

1. The board cards inserted on the rear panel are for reference only;
2. Product pictures are for reference only. Please refer to the actual product.

7. Central control protocol learning

Adopt 232 and 485 protocols, two RJ45 network interfaces are set at the bottom of the device, and multiple devices use ordinary network cables for hand-in-hand series connection;

Connection between network cables and the device protocol interfaces:



Baud rate 2400

Parity check

N stop bit

1

Rising code: FF EE EE EE DD

Falling code: FF EE EE EE EE

Stop code: FF EE EE EE CC

(2)The above default code is the original factory code, which can control all devices. If you want to control them in groups, the code setting of the individual group is required. The steps are as follows:

① Firstly, connect the computer to the device through the serial port device, open the serial port debugging software, and confirm that the transmitter of the computer serial port is connected to the receiver of the device, and then control the device through the default code to ensure that all connections are correct;

② Write the learning code in the code input column of serial port debugging software. If you want to learn the first group, write the code: FF 10 11 01 AA; if you want to learn the second group, write the code: FF 10 11 02 AA; if you want to learn the third group, write the code: FF 10 11 03 AA; ...

③ After writing the codes, return to the device that needs to be learned, press the "Pause" button on the device panel and hold on for 3-5 seconds, and the machine will move slightly;

④ Release the "Pause" button, click the code sending button on serial port debugging software, and send the learning code written in step ②, which can be sent continuously for 2-3 times;

⑤ After that, the first group of control codes becomes: FF 10 11 01 DD (rising), FF 10 11 01 EE (falling), FF 10 11 01 CC (pause); the second group of control codes becomes: FF 10 11 02 DD (rising), FF 10 11 02 EE (falling), FF 10 11 02 CC (pause), ...

(3) It supports several persons operating and learning at the same time. And only after the device moves slightly, the device can receive the learning code sent by the computer; the codes sent in other states are invalid;

(4) A same device can learn multiple group of codes;

(5) If the learned code needs to be cleared, refer to the remote control clearing steps. After this operation is completed, all the codes learned later in the device will be cleared, and only the original factory default code will be retained;

(6) When writing the code in the central control software, it is recommended to write it several times. If the central control terminal is written once, some devices cannot be affected by it.

8. Common failure and maintenance

Failure	Cause	Debugging
The operation button has no response; the screen does not rise	Not connected to power	Check and make sure the power supply is on
	Poor contact of power input	Check and make sure the power interface is in good contact; use another power input
No corresponding image output during signal switching	The signal source or terminal display is not turned on	Check and make sure the signal source and terminal display are on
	Poor contact of video signal port	Check and make sure the corresponding video signal port is connected properly
Black screen occurs after signal switching	The display does not support the resolution of signal source	Switch to a new source or set to automatically adapt to the monitor resolution
The output image is affected	Poor connection between input and output devices	Connect and make sure the machine is in good contact
	The input and output wires are not standard or damaged	Use the standard wire
	Wire connection is too long	Use the quality wire within supported transmission distance range
There is obvious static electricity on the panel	The machine is not well grounded	Make the machine be grounded well
Serial port commands cannot control the machine or remote terminal	Poor contact of control communication port	Check and make sure the communication serial port is in good contact
	The communication protocol is not set	Set the local or remote communication protocol according to actual needs
The network port cannot control the machine	The control device network segment is inconsistent with the controller	Change the control device network segment to be consistent with the matrix controller
	Matrix controller network	Change the matrix controller

	segment is inconsistent with the connected LAN	network segment to be consistent with the LAN
The remote control cannot control the machine	The battery is exhausted	Replace with new battery
	Remote control and machine failed to be learned	Learn again
The machine cannot be used	Internal damage of the controller	Send to the professional maintenance place

9. After-sale service

(1) During the product warranty period, if the product fails due to the quality itself under normal use, and the product has not been disassembled and repaired, the company will be responsible for free maintenance.

(2) The company provides a three-year warranty service for this product. The start date of the warranty period:

Product delivery date;

If the delivery date cannot be proved, the production date of the product in the company SN code shall prevail.

(3) In any of the following situations, warranty service is not supported, and the maintenance should be reasonably charged:

Damage caused by improper use, storage and maintenance;

Man-made damage to appearance and parts;

Damage caused by changing the configuration or modifying the product without the authorization;

Damage caused by force majeure.

(4) In any of the following situations, the company has the right to refuse to provide maintenance services or provide fee-based maintenance services;

The fragile label of the cabinet is damaged (except authorized by our company), and the content of the product label is altered or blurred and cannot be recognized;

Damage caused by unauthorized assembly, dismantling and maintenance;

There is no sales certificate or the sales certificate does not match the product model;

Products not produced and sold by our company.

(5) You can directly contact the our after-sales personnel by letter or call. Please inform the following:

The model and name of the product;

Failure phenomenon (as detailed as possible);

The process before and after the failure occurs.



Warning



1. Do not block the vent.
2. If the power cord is damaged, stop using it immediately.
3. It should not be placed in the following places: poor ventilation; dusty; direct sunlight; high ambient temperature or close to heat sources; subject to vibration.
4. It is required to be protected from rain and moisture.
5. It cannot be placed in a container that can be filled with liquid.
6. The housing is required to be safely grounded.
7. The power plug and socket are required to be compatible.
8. Please do not open the housing cover by yourself to avoid electric shock. When it fails, please contact the supplier or the manufacturer for maintenance services, or you can entrust professionals in professional departments with professional certificates. Non-professionals are forbidden to disassemble the machine by themselves, otherwise electric shock may endanger their life.

Specifications and parameters are subject to change without notice

USER MANUAL