

# T Chip Intelligent Technology Face X2 Face Recognition All-In-One PC User Guide

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**T Chip Intelligent Technology Face X2 Face Recognition All-In-One PC**



### **High-performance Processor**

Adopts RK3399 six-core 64-bit server-level processor, frequency up to 1.8 GHz, integrates quad-core Mali-T860 GPU.

### **Quick Recognition Accurate Verification**

Its recognition speed is less than 200ms and recognition accuracy is more than 99.77%.

### **Card swiping Recognition**

It can recognize ID card and IC card accurately, realizing ID-selfie matching, card-swiping gate access control and attendance checking.

### **Code scanning Recognition**

It supports the fast recognition of scanning mainstream QR codes and bar codes. It can be applied to check-stand scanning, ticket scanning and payment scanning, etc.

### **Dual track Speaker**

The inbuilt dual track speaker, it supports TTS voice broadcast which can intelligently translate words into natural speech flows in real time.

### **IPS Touch Screen**

With 8 inch fully fitted IPS screen, 800×1280 resolution, full-view HD display, vivid color reproduction, clear and smooth picture. It supports multi touch which is sensitive and stable.

### **Aluminum Waterproof Case**

Equipped with an all-aluminum alloy case It can run steadily 7×24 hours when aging at a high temperature of 60°C. With the dust-proof and waterproof level of IP54

## **Multiple Installation Methods**

It can adopt wall-mounted, desktop mounted or column-mounted as a way of the installation, which is simple and convenient to install and can be applied to various scenes quickly.

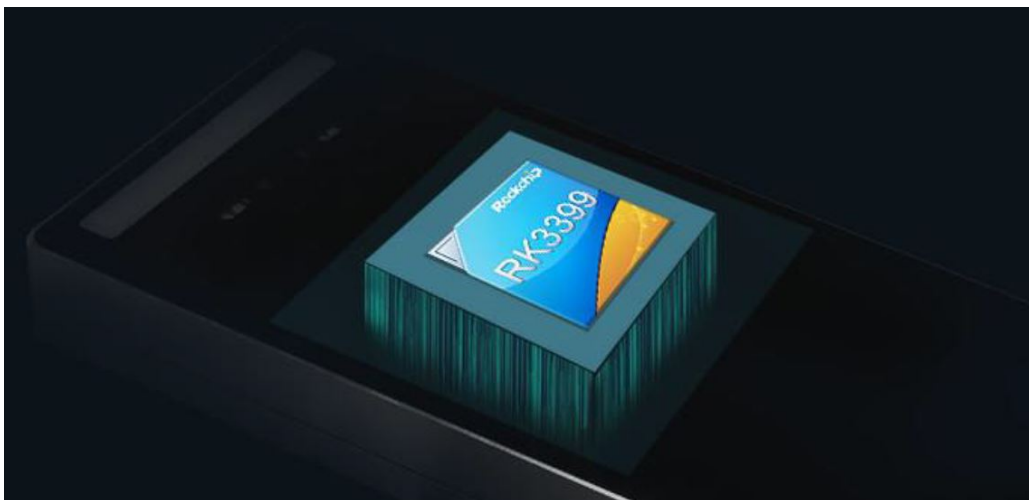
## **Flexible Backstage Management**

It is equipped with the well developed APK and PC backstage management software of face recognition and mobile phone management software WeChat mini programs.

## **Product introduction**

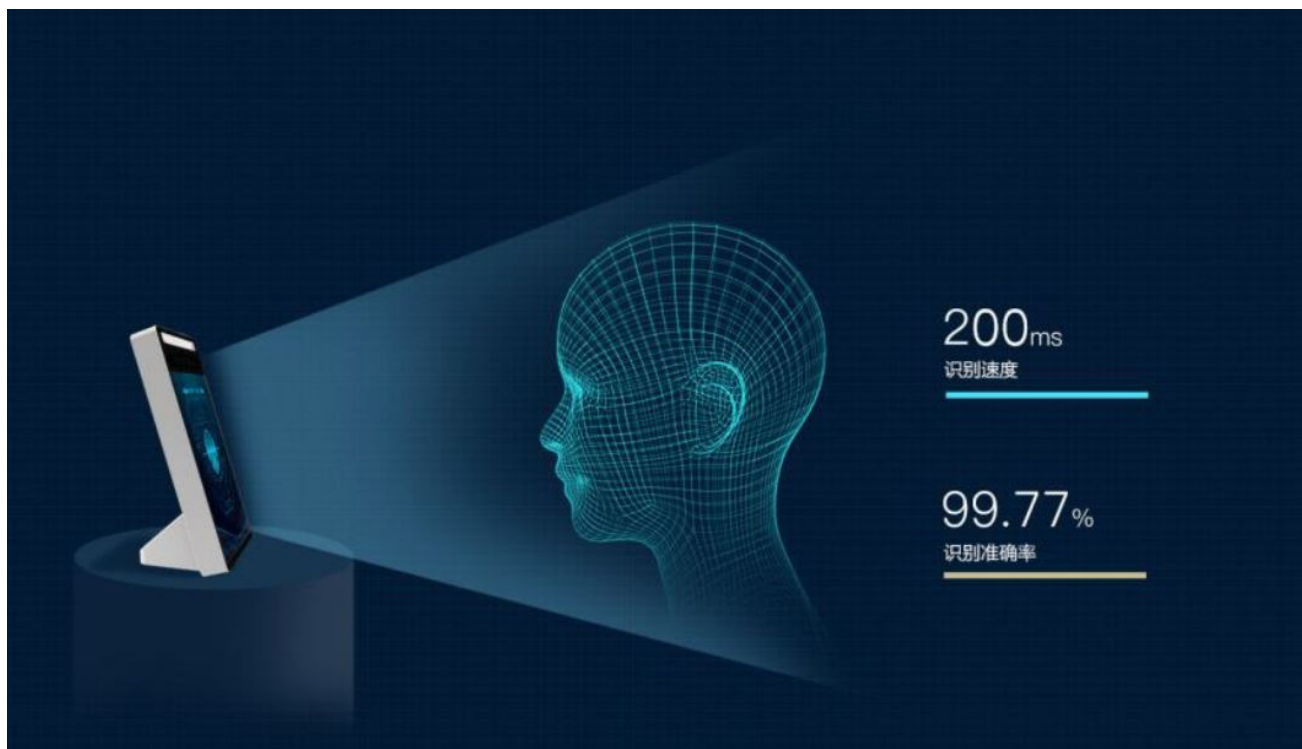
### **High performance Processor**

Adopts RK3399 six-core 64 bit server level processor, frequency up to 1.8 GHz, integrates quad-core Mali T860 GPU. It supports multi-format video coding and decoding, and has better processing performance.



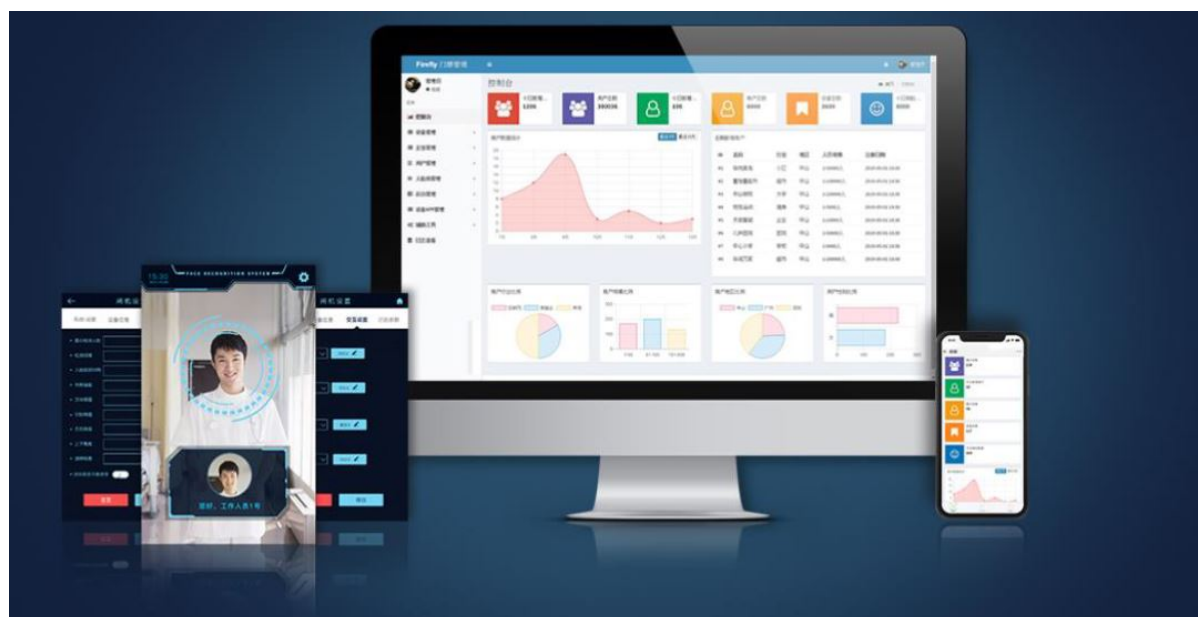
### **Quick Recognition, Accurate Verification**

It matches multiple face recognition algorithms well and has a high response and detection speed. Its recognition speed is less than 200ms and recognition accuracy is more than 99.77%.



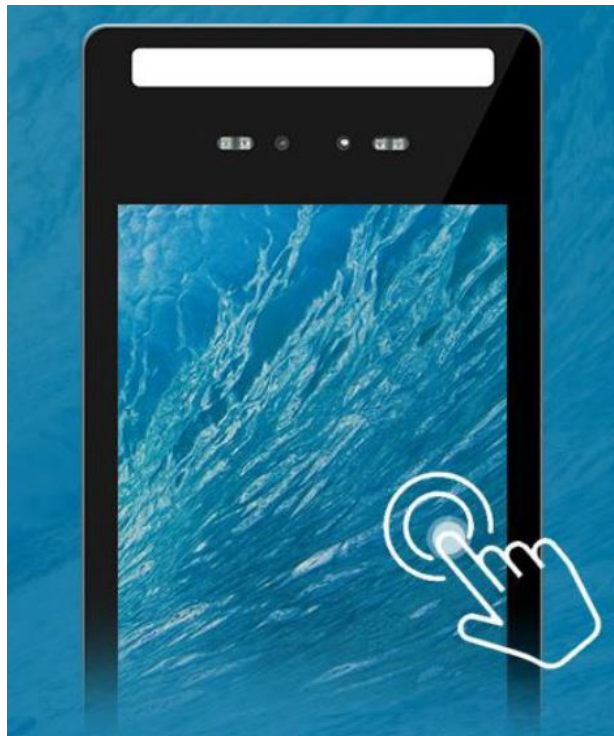
### Flexible Backstage Management

It is equipped with the well-developed APK and PC backstage management software of face recognition and mobile phone management software WeChat mini programs, which can be applied to projects directly.



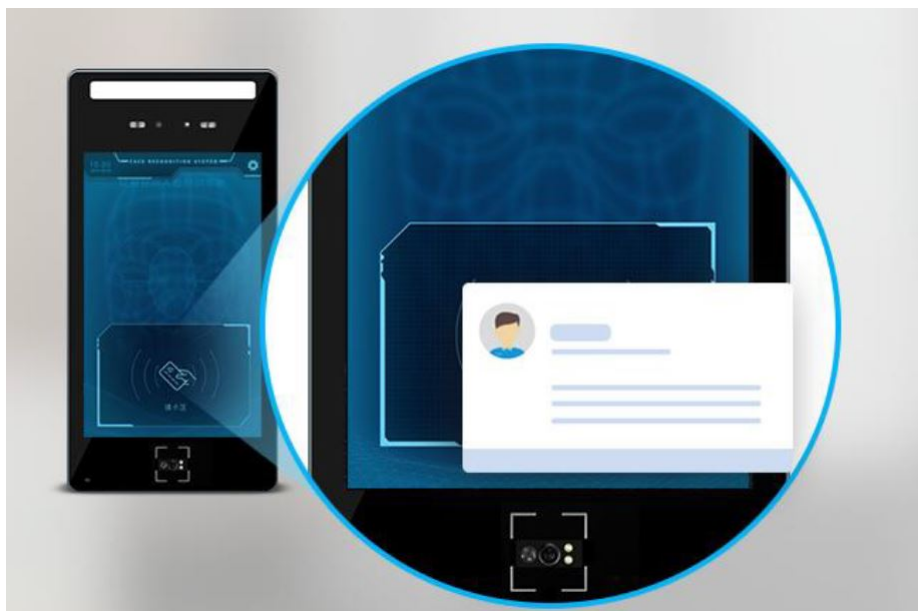
### IPS Touch Screen

With 8-inch fully fitted IPS screen, 800×1280 resolution, full-view HD display, vivid color reproduction, clear and smooth picture. It supports multi-touch which is sensitive and stable.



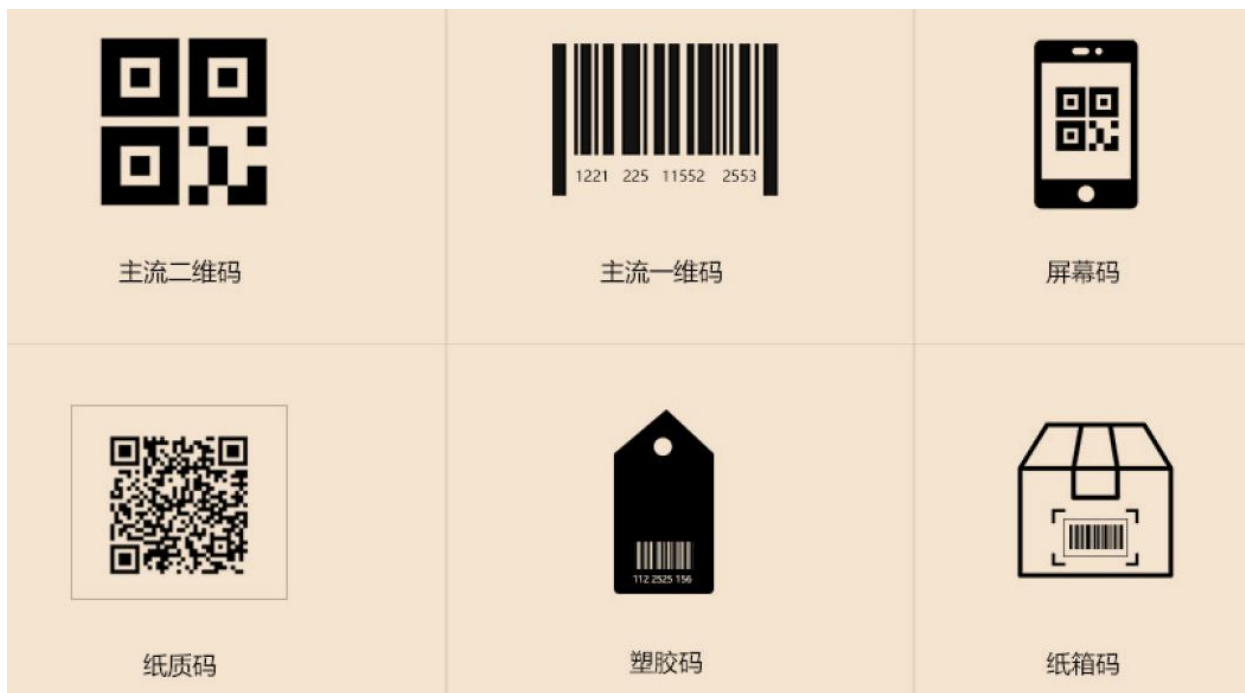
### **Card swiping Recognition**

It can recognize ID card and IC card accurately, realizing ID selfie matching, card-swiping gate access control and attendance checking. It can be applied to gate access control in residential areas, check on work attendance and high speed rail ticket check, etc.



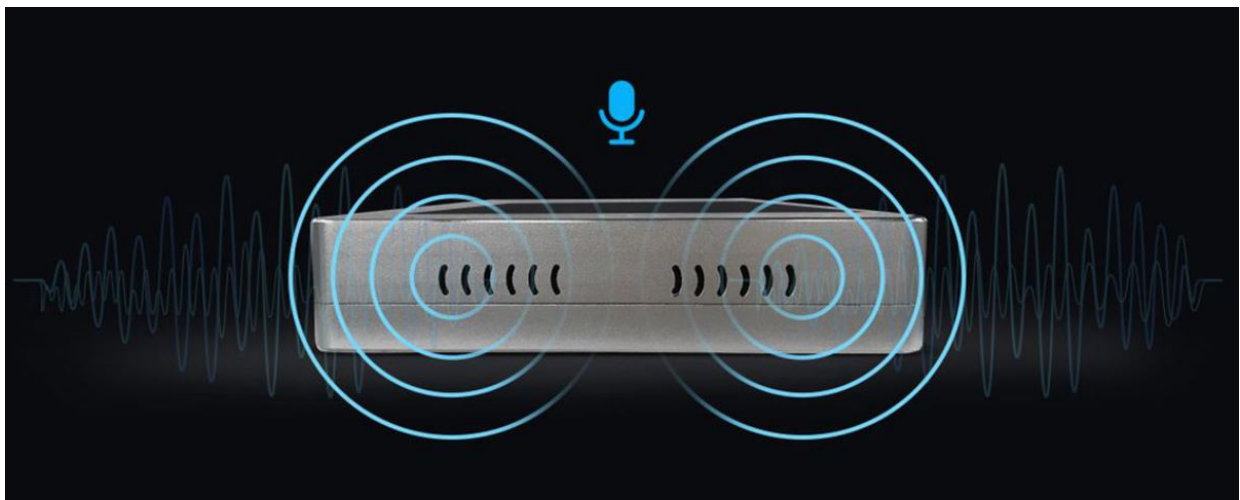
### **Code scanning Recognition**

It supports the fast recognition of scanning mainstream QR codes and bar codes. It can be applied to check stand scanning, ticket scanning and payment scanning, etc.



### Dual track Speaker

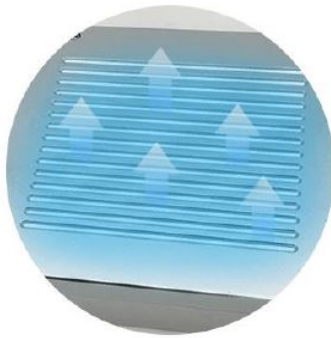
With the inbuilt dual-track speaker, it supports TTS voice broadcast which can intelligently translate words into natural speech flows in real-time. It can be applied to the Human Computer Interaction scenes like voice broadcast and voice reminder.



### Aluminum Waterproof Case

Equipped with an all-aluminum alloy case which through 38 process flows and features a matte surface. The case conducts heat effectively despite its fanless design. It can run steadily 7×24 hours when aging at a high temperature of 60°C. With the dust-proof and waterproof level of IP54, it can effectively avoid the damage of the splashing water in all directions and thus meet the requirements for use of indoor and outdoor environment.





## Multiple Installation Methods

It can adopt wall-mounted, desktop-mounted or column-mounted as a way of the installation, which is simple and convenient to install and can be applied to various scenes quickly.



## Rich Expansion Interfaces

It supports various expansion interfaces like Wiegand 26/34 input and output, RS232, RS485, relays, Ethernet, USB HOST and USB OTG.





## Application

Widely applicable to office buildings, residential areas, campuses, construction sites, factories and other scenes which require gate access control, attendance checking and face-scanning payment.

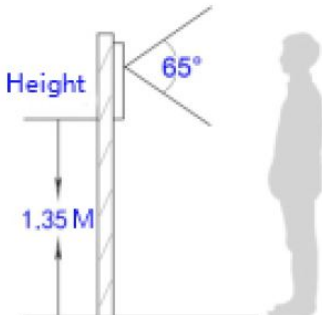
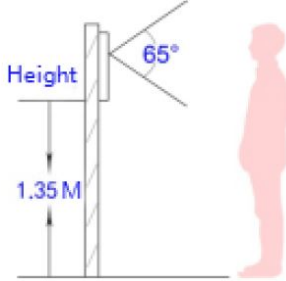


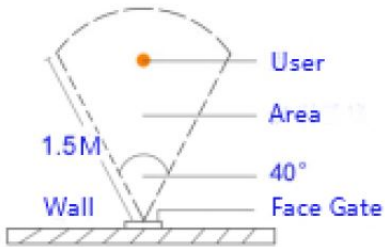
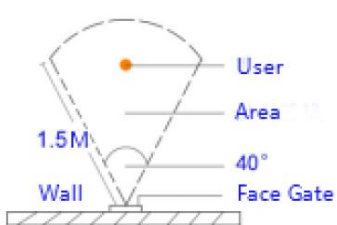
## Face X2 Face Recognition All In One PC Product specification

### Technical parameter

Screen	Size	8 inch, full-view, IPS LCD screen	
	Resolution	800 × 1280	
	Type	RGB Camera	IR Camera
	Sensor	1/2.7 CMOS	1/2.7 CMOS
	Resolution	2 million pixels 1920×1080	2 million pixels 1920×1080

Binocular Camera

Minimum illumination	$\geq 0.1\text{LUX at F1.8}$	$\geq 0.1\text{LUX at F1.8}$
Frame rate	30fps	30fps
Signal-to-noise ratio	$\geq 45\text{dB}$	$\geq 45\text{dB}$
Output format	MIPI 8bit YUV422	MIPI 8bit YUV 422
White balance	Automatic	Automatic
Wide dynamic	$\geq 100\text{dB}$ wider dynamic range suitable for various complex light environment	—
Vertical wide angle	 <p>The diagram shows a vertical camera lens with a 65° field of view. A vertical double-headed arrow indicates a height of 1.35 M. A grey silhouette of a person stands to the right of the camera.</p>	 <p>The diagram shows a vertical camera lens with a 65° field of view. A vertical double-headed arrow indicates a height of 1.35 M. A red silhouette of a person stands to the right of the camera.</p>

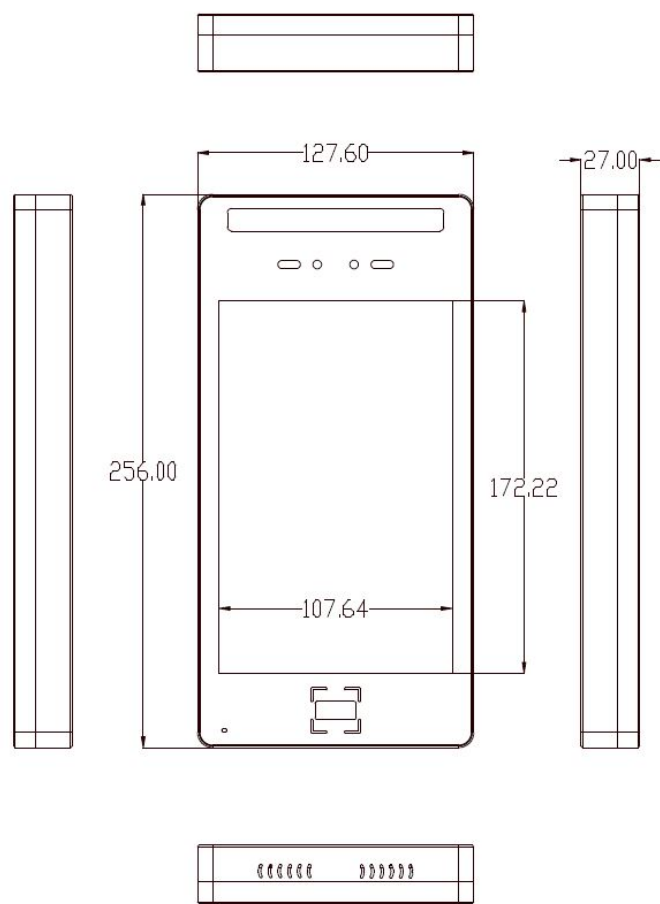
	Horizontal wide angle	 
Feature	CPU	RK3399 six-core 64-bit 1.8GHZ processor Dual core Cortex-A72+ Quad core Cortex-A53)
	RAM	2GB LPDDR4
	Storage	16GB eMMC, Support TF card expansion
	Fill light	White fill light, IR fill light, Red and green indicator light
	Wireless network	2.4GHz WiFi, support 802.11 b/g/n protocol 3G/4G LTE network optional
	Wired network	10 / 100M Ethernet
	Distance sensing	Radar distance sensing sensing distance 0.2-4m
	MIC	Digital noise reduction audio, High sensitive capacitor mic

	Card reading Optiona	NFC / IC card reading function, non-contact IC card conforming to iso14443 13.56MHz type A & B
	QR code recognition Optional	QR code/ Barcode recognition function, quickly and easily read 1D / 2D barcodes in various applications
	ID card recognition Optional	SAM module of the Ministry of public security, which can read the second generation resident identity card, Hong Kong, Macao and Taiwan residence permit, and Foreigner Residence permit
	4G LTE module (Optional)	Support 3G/4G LTE network
Interface	Wiegand	Wiegand 26 /34 input, Wiegand 26 /34 output, RS232, RS485, Relay
	USB	USB 2.0 Host x 1, USB 2.0 OTG x 1
	RJ45	RJ45 (10 / 100M Ethernet)
	Power	DC 5.5mm * 2.5mm
	Face recognition	1 : N recognition accuracy 99.7

Software	Stranger detection	Support
	Face anti-spoofing	Support
	UI interface configuration	Support
	Remote upgrade	Support
	Deployment method	Support LAN, public network use
	Power	DC 12V-3A
	Power consumption	About 18w
	Operating temperature	-10°C 60°C

Other	Operating humidity	10% 90 %
	Size	256 mm × 127.6 mm × 27 mm
	Protection level	IP54 protection
	Installation	column-mounted, wall mounted

**Face X2 Face Recognition All In One PC Size**

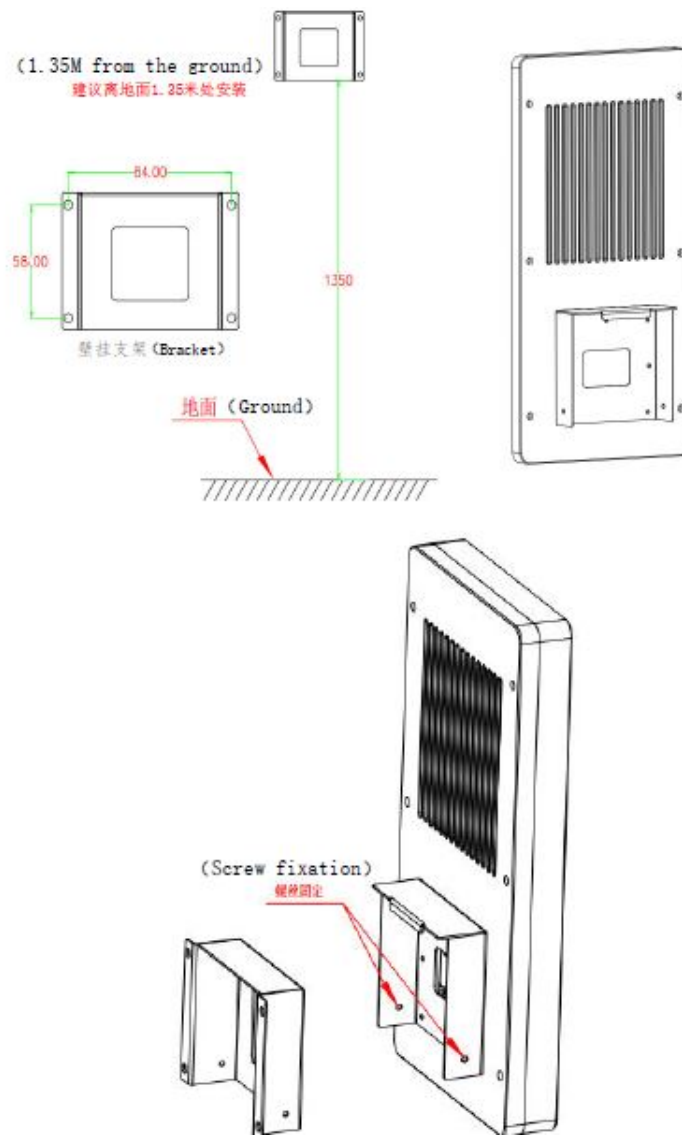




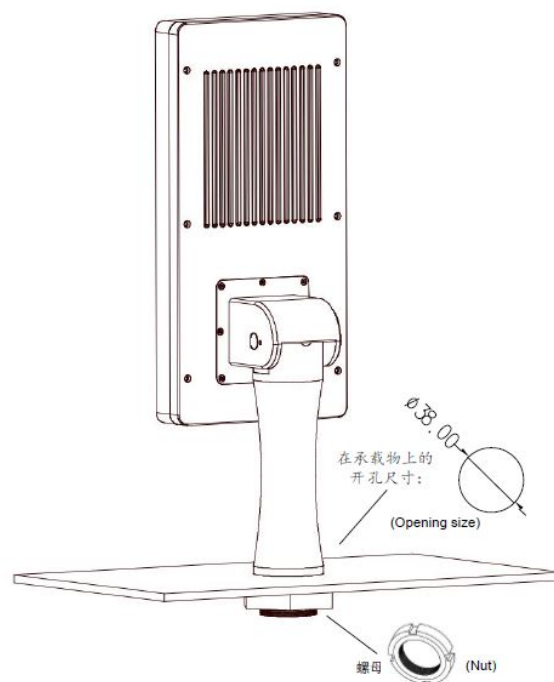


## Face X2 Face Recognition All In One PC Installation Methods

### Wall Mounted



## Column Mounted





## Face X2 Face Recognition All In One PC About US

### Company introduction

T-Chip Intelligent Technology Co., Ltd. was founded in 2005. It is a national high-tech enterprise. We focus on the research and development, design, production and sales of open source intelligent hardware, internet of things and digital audio products, and provide the overall solution for intelligent hardware products meanwhile. The open-source brand “firefly” has an open-source community and online shopping mall on the Internet. At present, it has more than 200000 users and more than 5000 enterprise users, accelerating the R & D process for many technology entrepreneurs and start-ups, and providing professional technical services.

### T-CHIP INTELLIGENCE TECHNOLOGY CO.,LTD.

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- Shopping Mall [store.t-firefly.com](http://store.t-firefly.com) [t-firefly.taobao.com](http://t-firefly.taobao.com)

## WeChat



## Face X2 Face Recognition All In One PC Warning

### FCC warning

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.

## Documents / Resources

The image shows the front cover of a user guide. It features a blue and white design with a stylized face and the text 'T-CHIP INTELLIGENCE', 'Face X2', and 'Face Recognition All-In-One PC'. There is also a small red 'PDF' icon in the top right corner.	<p><a href="#">T Chip Intelligent Technology Face X2 Face Recognition All-In-One PC</a> [pdf] User Guide FACE-X2, FACEX2, 2AKCT-FACE-X2, 2AKCTFACEX2, Face X2 Face Recognition All-In-One P C, Face X2, Face Recognition All-In-One PC</p>
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## References

-  [Home - Firefly Aerospace](#)
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