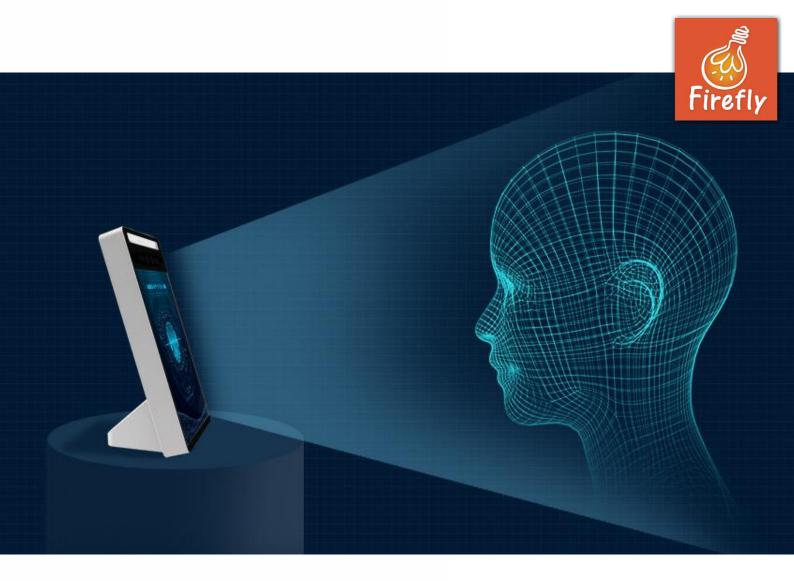
# T-Chip Intelligence

# Face X2

Face Recognition All-In-One PC



T-CHIP INTELLIGENCE TECHNOLOGY CO.,LTD.

www.t-firefly.com



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### **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**

ith 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, 800x1280 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 7x24 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.





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**



#### 1. 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.



#### 2. 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%.



# Product introduction



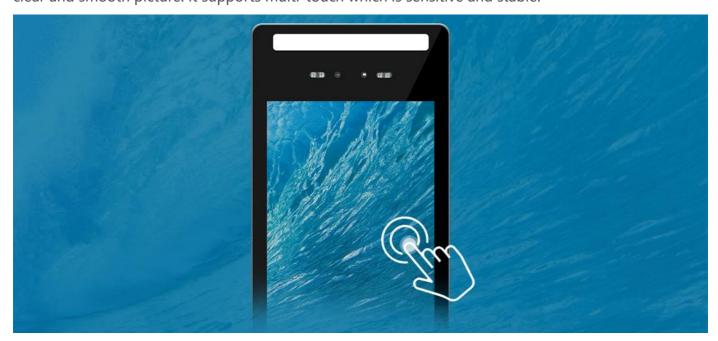
#### 3. Flexible Backstage Management

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.



## 4. IPS Touch Screen

With 8-inch fully fitted IPS screen, 800x1280 resolution, full-view HD display, vivid color reproduction, clear and smooth picture. It supports multi-touch which is sensitive and stable.



# Product introduction



#### 5. 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.



#### 6. 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.

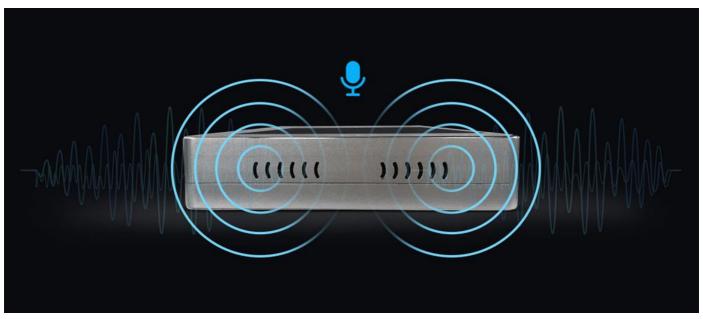


# **Product introduction**



## 7. 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.



## **Product introduction**



#### 9. 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 7x24 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.



#### 10. 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.



## **Product introduction**



## 11. Rich Expansion Interfaces

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





## 12. 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.





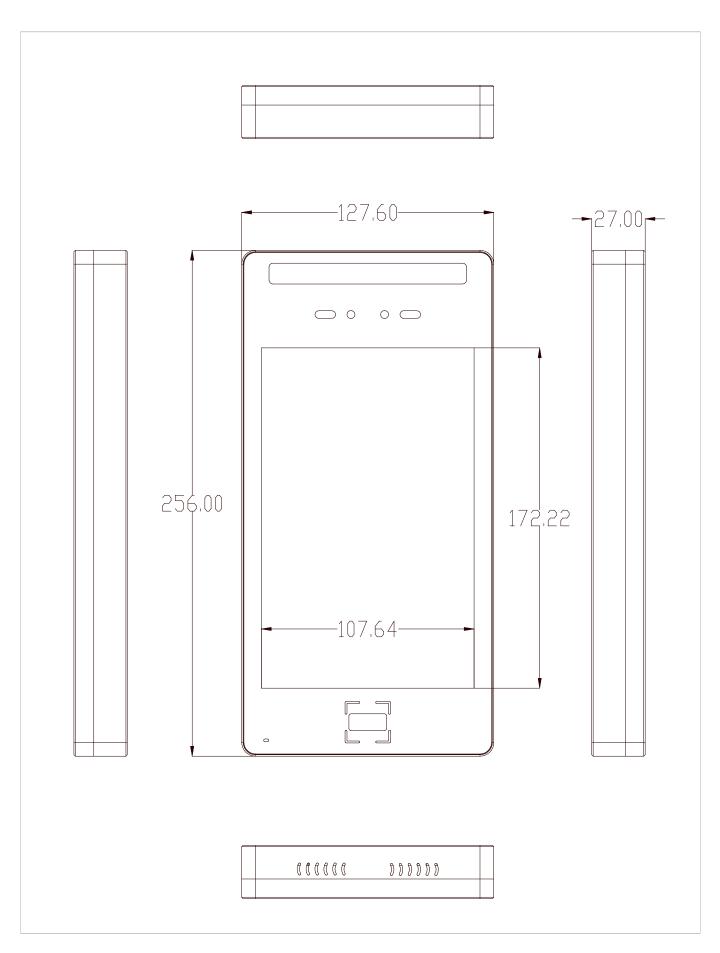
# **Technical parameter**

Core ==	Size 8-inch, full-view, IPS LCD screen			
Screen	Resolution	800 × 1280		
Binocular Camera	Туре	RGB Camera	IR Camera	
	Sensor	1/2.7"CMOS	1/2.7"CMOS	
	Resolution	2 million pixels (1920×1080)	2 million pixels (1920×1080)	
	Minimum	, , ,	, , ,	
	illumination	≥0.1LUX at F1.8	≥0.1LUX at F1.8	
	Frame rate	30fps	30fps	
	Signal-to-noise ratio	≥45dB	≥45dB	
	Output format	MIPI 8bit YUV422	MIPI 8bit YUV 422	
	White balance	Automatic	Automatic	
	Write Datafice	≥100dB wider dynamic range	Adiomatic	
	Wide dynamic	suitable for various complex light environment	-	
	Vertical wide angle	1.35 M	1.35 M	
	Horizontal wide angle	User Area  1.5M  40°  Wall  Face Gate	User Area  1.5M  40°  Wall  Face Gate	
		DK0000 air. cara 04 bit 4 00 17 mass	Annual Contour A70 County	
Feature	CPU	Cortex-A53)	essor (Dual-core Cortex-A72+ Quad-co	
	RAM	2GB LPDDR4		
	Storage	16GB eMMC, Support TF card expansion		
	Fill light	White fill light, IR fill light, Red and green indicator light		
	Wireless	2.4GHz WiFi, support 802.11 b/g/n protocol		
	network	3G/4G LTE network (optional)		
	Wired network	10 / 100M Ethernet		
	Distance	Radar distance sensing (sensing distance 0.2-4m)		
	sensing			
	MIC	Digital noise reduction audio, High-sensitive capacitor mic		
	Card reading (Optional)	NFC / IC card reading function, non-contact IC card conforming to iso14443 13.56MHz type A & B		
	QR code	QR code/ Barcode recognition function, quickly and easily read 1D / 2D		
	recognition (Optional)	barcodes in various applications		
	ID card	SAM module of the Ministry of public security, which can read the		
	recognition	second-generation resident identity card, Hong Kong, Macao and Taiwan		
	(Optional) 4G LTE module	residence permit, and Foreigner Residence permit		
	(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 RJ45 (10 / 100M Ethernet)		
	Power	wer DC 5.5mm * 2.5mm		
Software	Face recognition	1 : N recognition accuracy 99.7%		
	Stranger	Support		
	detection Face	σαρροιτ		
	anti-spoofing	Support		
	UI interface	Support		
	configuration  Remote upgrade	Support		
	Deployment Deployment			
	method	Support LAN, public network use		
	Power	DC 12V-3A		
	Power consumption	About 18w		
Other	Operating	-10°C 60°C		
	temperature	-10°C ~ 60°C		
	Operating humidity	10% ~ 90 %		
	Size	256 mm × 127.6 mm × 27 mm		
	Protection level	IP54 protection		
	Installation	column-mounted, wall-mounted		

column-mounted, wall-mounted

Installation



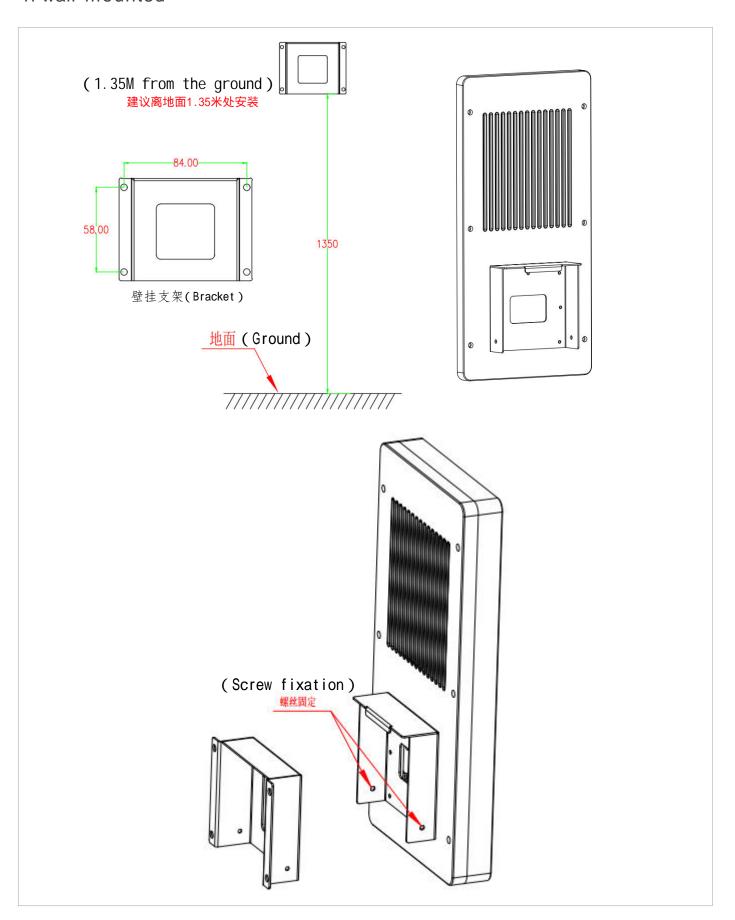






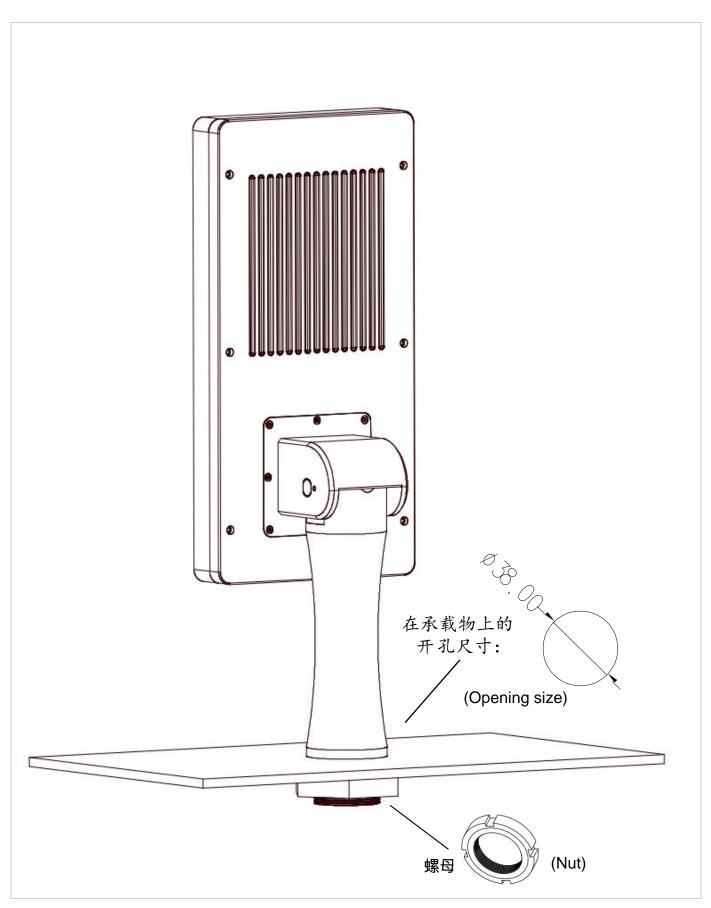


## 1. wall-mounted





# 2. column-mounted







DC5.5\*2.1 Power Cable x 1

## **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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#### **Business communication**

E-mail: sales@t-firefly.com

#### **Shopping Mall**

store.t-firefly.com t-firefly.taobao.com

#### WeChat





#### 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.