SmartPass Face Recognition Access Control Terminal (7")

SmartEye-SW-4K-7 is a facial recognition terminal of the SMARTAEGIS hardware product family. This device provides a safe, fast, and smooth passing experience for customers by its cutting-edge algorithmbasedondeeplearning,andtheinfra+RGBcameras. It is mainly applied in the security access control scenarios of mansionlobby,school,airportandlogisticcenter,etc. Thisdeviceiswaterproofanddustproof.

ProductFeatures

Recognition

50,000 facecapacity,accuracy > 99.8%,speed≤300ms.

Light Adaptability

Working in different light environment, even in 0 lux dark scene.

Multifunction

Supporting multiple authentication such as card andQRcodes.
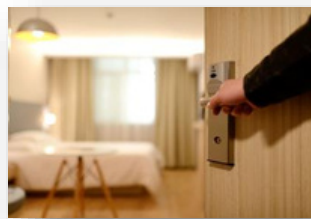
Integration

Rich RESTAPI and SDK make integrationvery easy and friendly.
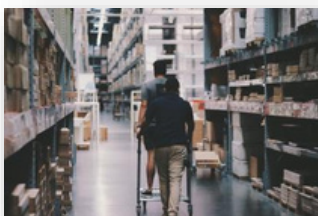
ApplicationScenarios

University Campus : Attendance

Hotel : Seamless Check in

Office : Secure Entry
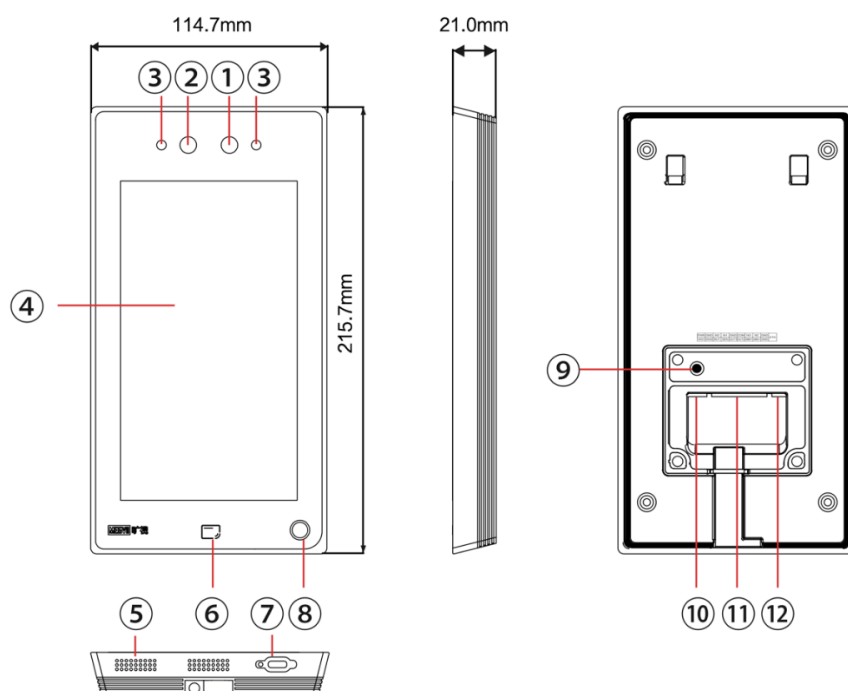
Warehouse : Safe Access

Smart Locker

Dormitory : Secure Living

Specification

Model: SmartEye- SW-4K-7

System	
Operation system	Linux
Main Processor	Embedded Processor Hi3516 DV300
RAM	1G
ROM	4G
Network Protocol	IPv4, TCP, UDP
Open API	Support

Display	
Screen Size	7-inch
Screen Resolution	1024 x 600
Screen Type	Capacitive touch screen
Status indicator	Breathing lamp design Normal recognition: Blue light flashes 4 times; No permission: Green light flashes 4 times; Other conditions: White light always on

Video & Audio	
Camera resolution	RBG + IR (2MP)
Camera FOV	D: 69.5° H: 61.6° V: 35°
Minimum FR illuminance	0 lux (without compensation light)
WDR	Backlight resistance
Vioice prompt	Support

Interface	
Network interface	1* 100M Ethernet port
RS-485	1
Wiegand	1 in/ 1 out
Lock output	1
Exit button input	1
Door contact input	1
Alarm input	2
Alarm output	1
Power	1
TAMPER	1
USB type C	1

Capacity	
Card capacity	50,000

Face capacity	50,000
Password capacity	50,000
Event capacity	50,000
Personnel group	128

Authentication	
Authentication method	Face/Card/Password/QR code, Face+Card, Face+Password
Card type	Mifare
Card reading distance	0 to 2 cm
Card reading speed	< 1 s
Face recognition distance	0.3 to 2 m
Face recognition speed	< 0.2 s
Face recognition accuracy	≥99.8%

Function	
Language	Chinese, English, Thai
Remote unlock	Support
Anti-passback	Support (API Supported)
Face anti-spoofing	Support
Time synchronization	Support
Standby mode	Support (can change background display)
Mask recognition	Support
Web configuration	Support

General	
Wi-Fi	Support
Power supply	DC 12V, 2A
Working temperature	-20 °C to 65 °C
Working humidity	0 to 90% (Non-condensing)
Working envirionment	Indoor and outdoor
Dimensions	216 mm × 115 mm × 21 mm
Protective level	IP65
Housing material	PC+ABS; Aluminum alloy frame
Net weight	440g
Installation	Wall mount/ Pole mount/ Turnstile
Certifications	CE

Specification

114.7mm 21.0mm

215.7mm

Available accessories:
1. Turnstile bracket Model: MegACC-KZI1-240
2. Temperature module Model: MegAcc-MT-G7

No.	Name	Description
1	Visible light camera	Captures visible light images
2	Infrared camera	Captures infrared images
3	Infrared fill light	Provides fill light for the infrared camera
4	Display screen	7-inch multi-touch display screen
5	Speaker	Plays audio prompts
6	Card tap area	Users tap their cards here
7	USB port	A Type C port for connection with USB drives
8	Indicator light	Indicates the access result and power status
9	Tamper prevention button	Prevents disassembly after installation
10	RS232 debugging port	Used for troubleshooting and upgrades
11	External cable connection	Used for connection to a power source
12	Reset button	Long-press to restore to factory default settings

Contact