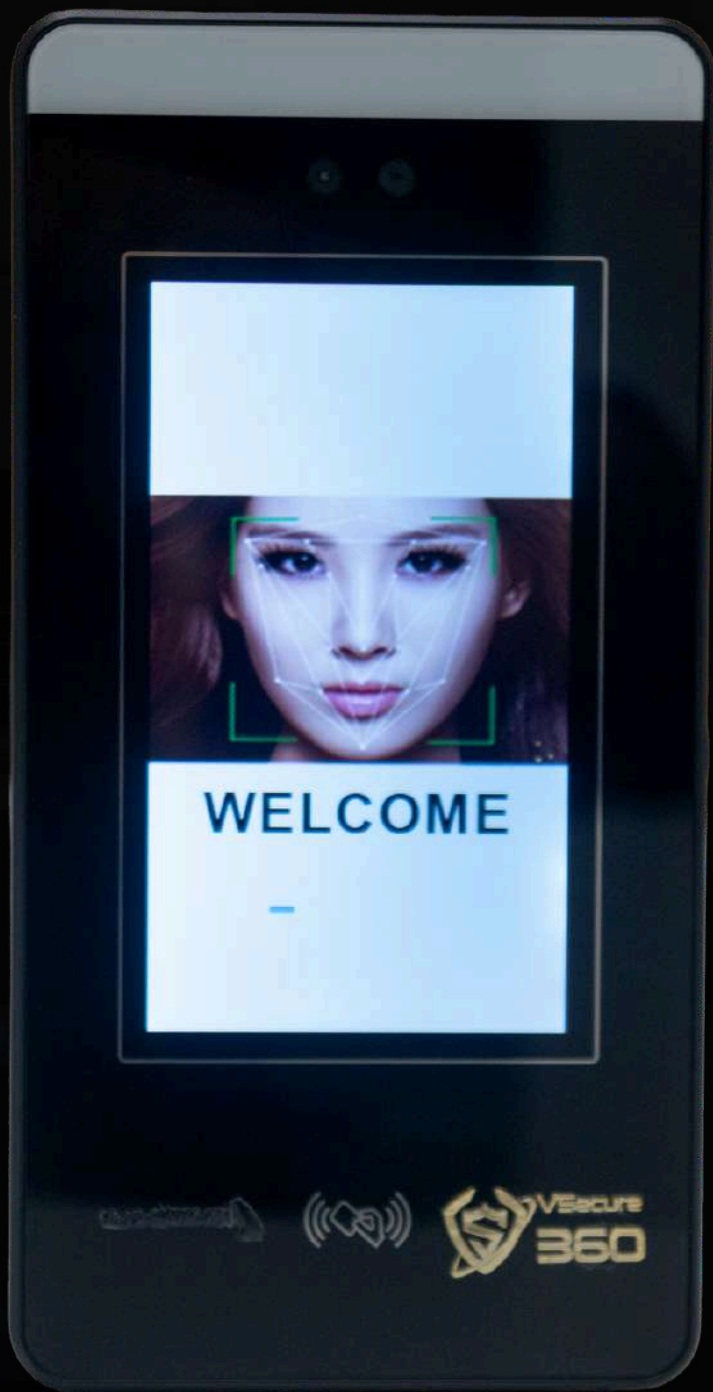


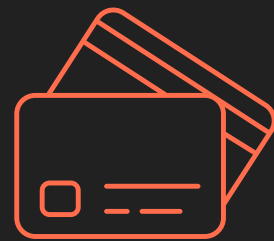
VLOCK

HAWK K11

HAWK-K11: THE HEART OF
SECURE OPERATIONS



Face Recognition

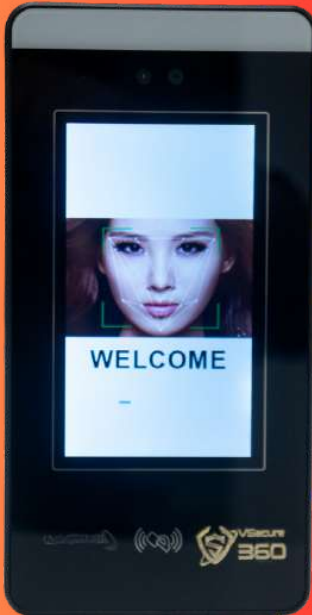


Card



PIN

HAWK-K11: ONE DEVICE, TOTAL CONTROL



1. Binocular visible light face recognition algorithm

Basic technology	Deep learning (1TOPS NPU)
FAR/ FRR	0.00001/ 1(%)
Recognition speed	Face detection : < 0.3 seconds (can detect 3 faces at the same time) Face recognition : < 0.6 seconds (per face)
Recognition distance	0.5-2M
Face recognition angle	Left and right: ≤30° Up and down: ≤30°
Number of people can be identified at the same time	3
Binocular live body recognition anti-counterfeiting function	Detect mobile phone photos, mobile videos, photos, 3D models, etc.
CPU	XM650V200SD2-QFN148-1GDDR

2. Hardware Parameters



RAM	Built-in 128MB DDR3
Flash	128MB SPI NAND 256MB SPI NAND (optional according to face capacity)
Camera	Color camera: 1 million (1280*720) pixels Infrared camera: 300,000 (640*480) pixels Field of view: 55.8 degrees (D)
Fill light	White fill light arrangement (8 SMD LEDs) Micro infrared lights (2 pcs, with lens 60 degrees)
Fingerprint head	Thin optical fingerprint head (with metal ring)
Display	4.3 inches (TFT)
Communication method	(Networktype)Ethernet,wirelessWIFInetwork(optional),RS485 / R S 2 3 2 (optional)
U disk	Support
RTC	External RTC
Voice output	Support
Touchscreen	Capacitive touch screen
Card	Support ID(125KHz), IC (13.56MHz, optional)
Access control Input and output	Support Door relay output Alarm relay output Exit button input Door sensor switch input Wiegand input and output Tamper input, recovery setting input
Operating Voltage	DC1 2 V
Operating temperature	-10 °C ~ +60°C
Working humidity (RH)	20% ~ 80%



3. Software Function

User registration capacity	1500
Face registration capacity	1500
Fingerprint registration capacity	1500
Verify record capacity	60,000
Manage recording capacity	3000

4. Machine Features

- Using high-speed CPU, it has extremely fast calculation, stable operation and strong anti- interference ability.
- Rain-proof design: The front and rear shells are sealed with rubber strips, the Udisk port is sealed with silicone, and the external wiring port is equipped with a rainproof cover
- Using anti-glare dynamic high-definition camera, it can quickly identify at long distances under various indoor and outdoor lights.
- Adopt dynamic face recognition algorithm: accurate recognition, fast recognition, and strong self-learning.
- Adopt optical large-area fingerprint sensor: 360-degree recognition, accurate, fast and self learning.