

FI710

Facial Identification Camera

FI710 is a bullet Visible Light Facial Recognition camera based on the AI embedded facial recognition algorithm



FI710 is a bullet multi-functional facial recognition AI camera developed by ZKTeco. Its high performance AI algorithm supports not only facial capture and face detection but also face comparison, face search, 20,000 personnel facial image management and facial recognition. Dimmed underground garage, warehouse, office area and other complex monitoring sites are most suitable for the deployment of FI710. It can also be used for outdoor monitoring in urban roads and community environment.

FI710 can dock with central access control, time & attendance and gate system. It completes the entire process of facial recognition and reports the results to docked systems for triggering opening and closing of door, gate and alarm. FI710 can also report the recognition results to time & attendance system in order to complete the related back-end data storage, analysis, statistics or summary. FI710's facial recognition algorithm has been highly compressed and packaged without affecting the special chip's computing ability. The recognition quality and practicability of the algorithm have reached an industry leading level. Its excellent facial recognition performance takes facial video surveillance system to a higher level, which can be easier to apply to a variety of application scenarios.

Features

- Benchmarks every face captured for quality score, provides multiple facial capture modes and photo pushing modes to reduce invalid faces
- Supports continuous transmission under interrupted network, supports face detection, auto-recording and video retrieval before/after alarm
- Supports low bit rate, low delay, region of interest (ROI) enhancement coding and SVC adaptive coding technology
- Maximum resolution 1920*1080@30fps
- Supports ONVIF, GB/T28181
- Supports 10Mbps/100Mbps adaptive network port
- Supports 1 pairs of audio input / output
- Supports two-level user rights management, authorized User ID and password login, user rights allocation
- Using 1/1.8" progressive scan CMOS
- Supports three independent bit-stream encoding, including dual 1080P HD stream, and supports 10 simultaneous stream acquisition
- Supports H.265/H.264 high definition low bit stream coding
- ICR automatic switching, day and night monitoring, low illumination enhancement
- Supports ultra wide dynamic range
- Supports fog penetration
- Supports video occlusion, dynamic check detection, network disconnection, IP address conflict, MAC conflict detection and so on
- Supports for front-end storage and facial recognition

Technical Parameters

Camera

Image sensor: 1/1.8" 2-megapixel progressive scanning CMOS
Effective image size: 1920*1080
Minimum illumination: 0.0001LUX@F1.0
Day&Night: Automatic/color/black-and-white (ICR infrared cut-off filter)
Wide dynamic range: 120dB
White Balance: Automatic / manual
Strong light suppression: Supported
Fog penetration: Automatic / manual / close
Digital noise reduction: Supports Intelligent Adaptive 2D/3D Noise Reduction

Specifications

Power supply: DC12V±20%
Power: 7W
Working temperature / humidity: 0℃ to 45℃; 5% to 95% (non-condensing)
Lightning protection rating: 6kV lightning protection and surge prevention
Weight: 0.49kg
Size: 140mm*71.9mm*69.6mm

Intelligent analysis

Anomaly detection: Face detection, video occlusion, motion detection, network disconnection, IP address conflict

Interface

Internet: 1 RJ45 Gigabit Ethernet port self adaptive (10Mbps/100Mbps)
Communication serial port: 1 half duplex RS-485 interface
Audio: 1 channel audio input and output
Storage: Provides MicroSD card slot which supports MicroSDHC/MicroSDXC and supports maximum capacity of 256GB memory card

Functions

Video compression format: H.265/H.264/MJPEG
Coding type: H.265: MP, H.264: HP/MP/LP
Maximum resolution: 1920*1080 (1080P)
Video coding frame rate: Supports output of three bit-streams simultaneously:
50Hz: 25fps (1920*1080, 1280*720, 704*576)
60Hz: 30fps (1920*1080, 1280*720, 704*576)
Multi-stream: Supports three-bit stream technology, dual HD, and simultaneous 10-way access.
Protocol: ONVIF, GB/T28181
Network protocol: TCP/IP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP/RTSP, RTCP, PPPoE, NTP, 802.1X, IPv6
On-screen display (OSD): Supporting 200*200 BMP 24-bit image overlay, optional overlay location;
Overlayable time, place, week, device number information and 6 letters custom message
Up to 8 regions are supported, and the overlay position can be set
Vector and dot matrix font library are supported
Alarm linkage:
Alarm source: Mobile detection alarm/Occlusion alarm/Switch input/Intelligent analysis alarm
Linkage target: Switch output/Preset position/Cruise trajectory/Scan/Mail send/Pre-alarm preview

Lens & fill light

Focus: 16-70mm/4-18mm
Maximum Aperture: F1.4/F1.6

Facial Video Surveillance

Face detection and capture: Supports dynamic face detection, tracking, optimization, output optimal face capture
Face capacity: 20,000
Face area exposure: Real-time adjustment of exposure parameters according to ambient light conditions to optimize facial capture quality.

Application



City CBD / Administration Hall /Office Building

Automatically identify thieves and terrorists to avoid property losses and injuries. Register and identify visitors for reducing management/security personnel, saving HR cost



Factory /Industrial Area /Building Site

Precisely identify the employee's go on/come off duty time, identify visitors and blacklisted people who have criminal records, effectively enhance the company's image and ensure security



Residential/Apartment community

Automatically identify owners, visitors, outsiders and inside security guards, control of potential dangers, high efficiency guarantee the security of the community



Hotel Lobby/Club Center

Identify resident guests, visitors, outsiders and inside staff to prevent potential dangers



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