



The HF-X40C AI face camera has a 4-megapixel resolution and supports Power over Ethernet (PoE) power. It offers night vision, motion detection, and two-way audio. It uses H.264/H.265 video compression and supports SD card storage for efficient data management. It supports up to 32 faces per frame and multiple face capture modes: Quick capture, Preferred Capture, and Face Deduplication.

## Applicable Scenarios

Suitable for park entrances and exits, campus attendance, scenic spot access, hotel visitor services, banks, train stations, retail stores, and other scenarios.

## Product Description:

- Embedded with a deep learning intelligent facial recognition algorithm, it supports front-end face matching. It detects, tracks, captures, scores, extracts features, and recognizes moving faces, outputting the optimal face matching results.
- Supports multiple face capture modes: fast capture, optimal capture, and face deduplication.
- Supports various parameter settings, including face detection area settings, face list management, alarm linkage, and comparison logs.
- Supports detection of up to 32 faces per frame and face detection size settings.
- Supports uploading of face images and panoramic images, with adjustable image encoding quality.
- Supports management of multiple face databases and multiple arming time zones.
- Supports blacklist and whitelist matching, stranger recognition, and linked alarm output.
- Supports intelligent exposure mode and wide dynamic range, ensuring clear face visibility even in strong backlight. Built-in high-efficiency infrared array light with low power consumption. Combined with an ICR infrared filter, it automatically switches between color and dark modes, enabling uninterrupted capture day and night.
- Maximum resolution: 4 megapixels (2560 x 1440 @ 30 fps).
- Lens: 2.8-12mm, F/1.6 aperture
- Supports protocols such as Onvif, GB28181, MQTT, and HTTP.
- Supports one alarm input/output, one audio input/output, RS485, and a built-in microphone/speaker.
- Supports POE power.

## Specifications

Motherboard Performance	Computing Power 1.2 Tops, Memory: 8 Gbit, Flash Memory: 8 GB EMMC
Sensor Type	1/3" CMOS
Lens	
Lens Type	Motorized Zoom
Field of View	(H)103.4°(W) - 29.3°(T), (V)54.3°(W) - 16.5°(T),(D)124.2° (W) - 33.6°(T)
Aperture	1.6-3.3±10%
Focal Length	2.8-12 mm
Auto Focus	Supported
IR Light	Maximum Illumination Distance 10 m
Image Characteristics	
Image Settings	Brightness, Contrast, Saturation, Sharpness
Minimum Illumination	0.001 Lux (Color Mode), 0.001 Lux (B/W Mode), 0 Lux (IR Light On)
White Balance	Auto/Manual
Strong Light Suppression	Supported
Backlight Compensation	Supported
Noise Reduction	Supports 2D/3D Digital Noise Reduction
Wide Dynamic Range	Supported
Signal-to-Noise Ratio	56 dB
Gain Control	Auto/Shutter Priority/Gain Priority/Manual
Encoding Features	
Video Compression Standards	H.265, H.264, H.264H, H.264B, Mjpeg
Resolution	Stream 1: 2560x1440, 1920x1080, 1280x720;
	Stream 2: 704x576, 960x544, 640x360, 320x184;
	Stream 3: 640x360, 704x576, 960x544, 320x184
Video System	PAL (25 fps)/NTSC (30 fps)
Bitrate Control	CBR/VBR
Default Bitrate	4096 kbps
Bitrate Adjustment Range	Main/Sub 30 kbps-16 Mbps, Continuously Adjustable
Audio Compression Standards:	G.711A, G.711U, G.726
Network Features	
Network Protocols	HTTP, TCP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/v6, UPnP, NTP
Protocols	Supports Onvif, GB28181, MQTT, HTTP

## Specifications

Functional Features	
General Behavior Analysis	Intrusion Detection, Tripwire Detection, People Counting
Alarm Functions	Audio & Light Alarm, Privacy Masking Alarm, Motion Detection Alarm, Network Fault Alarm, Voice Broadcast
Recording Modes	Manual Recording, Event-Triggered Recording, Scheduled Recording, Alarm Recording
OSD Overlay	Time, Channel Title, Device Name, Customizable
Day/Night Mode	Day, Night, Supports Scheduled Switching, Manual Switching, Auto Switching
Privacy Masking	Supports 4 Area Settings
Mirroring	Supports 90°/180° Image Flip
ROI	Supported
Intelligent Features	
Detection Types	Face Capture, Recognition, Mask Detection
Detection Quantity	Supports Simultaneous Detection and Capture of Up to 32 Targets
Face Detection Area	Supported
Face Detection	Supports Face Detection, Face Tracking, Optimal Capture, Quick Capture, Face Deduplication, Face Enhancement, Partial Face Exposure
Detection Range	Supports Adjustable Minimum/Maximum Detection Targets
Database Capacity	15,000 Entries, 70,000 Capture and Recognition Records
Image Types	Face Image, ID Photo, Panoramic Image
Image Format	jpg
Interface Features	
Network Interface	1 x rj45, 10/100 Mbps Adaptive Ethernet Port
Power Interface	DC 12V/2A (-15% to +10%), Supports PoE Power Supply
Alarm Interface	1 Input, 1 Output
Audio Interface	1 x Audio Input/1 x Audio Output (RCA jack), Built-in MIC/Speaker
SD Card Interface	Maximum Capacity 256 GB
RS485	Supported
Reset	Software Reset
Physical Characteristics	
Installation Method	Wall Mount, Ceiling Mount
Operating Voltage	DC 12V/2A (-15% to +10%)
Power Consumption	< 8W
Operating Temperature	-30°C to +60°C
Operating Humidity	0% to 95% RH (Non-Condensing)
Protection Rating	IP65
Product Dimensions	115.3 x 104 mm, 115.4
Package Dimensions	120 x 120 x 115 mm
Weight	2KG



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