

## HNCA03-FEA

### 3MP Network Fisheye Camera



## smart IPC

HNCA03-FEA is a fisheye network camera capable of providing a 360 degree panoramic image of its surveillance scene.

The progressive scan CMOS sensor provides high-resolution images of up to 2048 × 1536.

Up to 15 live view display modes, specifically designed for 3 mount types and 2 decoding modes, meet the major needs from customers of different preference.

IR range of 15 meters provides good visibility in low or even zero-light environment.

- 1/3" Progressive Scan CMOS
- Max. 2048 × 1536 @30fps Slow shutter
- Up to 15 live view display modes
- 120dB WDR
- Up to 15m IR range
- Built-in microphone
- 2 behavior analysis, 1 statistic
- With – V model: IK10 for camera housing, IP66

## Smart

- 2 behavior analyses, line crossing detection and intrusion detection
- 1 statistic, heat map
- Smart recording: Support edge recording and dual-VCA
- Smart encoding: Support low bit rate, low latency, ROI enhance encoding

## Image

- Max 2048 x 1536 @ 30fps
- Support live view image decoded by hardware and software
- Support up to 15 display modes in total
- Streaming smoothness setting for different requirements of image quality and fluency
- Support H.264+/H.264/MJPEG video compression, multi-level video quality configuration; support Basic/Main/High Profile H.264 encoding complexity.
- Multiple OSD color: Black & white self-adaptive; Custom
- 120db WDR is supportable for backlight environment
- Support BLC

## System

- Support ONVIF (profile S/profile G), ISAPI protocol.
- Support dual streams, and support 20 channels live view at the same time
- Lightning protection, surge protection, voltage transient protection, anti-static protection

## Interface

- Support standard 128G Micro SD/SDHC/SDXC card storage.
- Support 10M/100M/1000M Ethernet Port. Support RS-485 (with – S model)
- Support Audio I/O, support stereo audio (with – S model)
- Support Alarm I/O (with –S model)

## Security

- Support three-level user authentication management, user and password authorization, IP address filtering
- Support security certificate as HTTPS; support creating certificate
- Basic and digest authentication is supportable in IE configuration
- Lock user IP for many times error login

## Specification

<b>Camera</b>	
Image Sensor	1/3" Progressive Scan CMOS
Min.	0.1 Lux @ (F1.2, AGC ON), 0.28 Lux @ (F2.0, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s – 1/100,000 s
Slow Shutter	Support
Lens	1.19 mm, F2.0; horizontal field of view: 180°(wall mount), 360°(ceiling mount), 360°(table mount)
Lens Mount	M12
Auto-iris	N/A
Day & Night	IR cut filter
Digital Noise Reduction	3D DNR
WDR	120dB
<b>Compression</b>	
Video Compression	Main stream: H.264 Sub stream: H.264/MJPEG
H.264 Type	Baseline Profile / Main Profile / High Profile
H.264+	Support only when the display mode is Fisheye View
Video Bit Rate	256 Kbps – 16 Mbps
Audio	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-160Kbps(MP2L2)
<b>Image</b>	
Max. Resolution	2048 × 1536
Frame Rate	50Hz: 25fps (2048 × 1536, 1536 × 1536) 60Hz: 30fps (2048 × 1536, 1536 × 1536)
Third Stream	50Hz: 25fps (720 × 720, 704 × 576) 60Hz: 30fps (720 × 720, 704 × 480)
Image Enhancement	BLC/3D DNR
Image Setting	Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser
Regional	Support 3 fixed region for each stream
Day/Night Switch	Auto/Schedule/Triggered by Alarm In (with – S model)
Picture Overlay	LOGO picture can be overlaid on video with 128x128 24bit bmp format
<b>Live View Display</b>	
Mount Type	Support table, wall, and ceiling
Decoding Mode	Support hardware decoding and software decoding
Display Mode	Support 15 display modes in total (including display modes of different mount types and decoding modes): Fisheye View, 180 Panorama View, 4PTZ, Fisheye + 3PTZ, Fisheye + Panorama + 3PTZ, 360 Panorama View, 360 Panorama + PTZ, 360 Panorama + 3PTZ, 360 Panorama + 6PTZ, 360 Panorama + 8PTZ, 2PTZ, Fisheye + 8PTZ, Panorama View, Panorama + 3PTZ, Panorama + 8PTZ
<b>Network</b>	
Network Storage	Support microSD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR
Alarm Trigger	Motion detection, video tampering alarm, network disconnected, IP address conflicted, illegal login, HDD full, HDD error
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
Security	One-key reset, anti-flicker, heartbeat, password protection, privacy mask, watermark, IP address filter
Standard	ONVIF(PROFILE S,PROFILE G), ISAPI
<b>Interface</b>	
Audio Input	1 3.5mm audio interface, Mic in/Line in (with – S model); 1 built-in microphone by default, -42dB
Communication Interface	1 RJ45 10M/100M Ethernet port With –S model: 1 RS-485 interface
Alarm (With –S model)	1 input, 1 output (up to DC24V 1A or AC110V 500mA )
Alarm Output	1 3.5mm audio output interface (with – S model); 1 built-in speaker by default, support echo cancellation
Video Output	1Vp-p composite output (75 Ω/BNC)
On-board storage	Built-in Micro SD/SDHC/SDXC slot, up to 128 GB

Reset Button	Yes
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<b>Audio</b>	
Environment Noise Filtering	Support
Audio I/O	Support
Audio Sampling Rate	Max 48kHz
<b>Smart Feature-set</b>	
Line Crossing Detection	Cross a pre-defined virtual line, up to 4 pre-defined virtual lines supported
Intrusion Detection	Enter and loiter in a pre-defined virtual region, up to 4 pre-defined virtual regions
Heat Map	A graphical representation of density of visit in a configured area.
Object Removal	Objects removed from the pre-defined region, such as the exhibits on display
Exception Detections	Scene change detection, Sudden audio increase/decrease detection, Audio loss detection, Defocus detection
Recognition	Face detection recognition
Statistics	Object Counting (Entrance and Exit object number is accounted and showed on screen in real time)
<b>General</b>	
Operating Conditions	Indoor temperature: -10 °C – 50 °C (14 °F – 122 °F) With –V model: Outdoor temperature: -30 °C – 60 °C (-22 °F – 140 °F) Humidity 95% or less (non-condensing)
Power Supply	12 V DC ± 10%, PoE (802.3af)
Power Consumption	12 V DC ± 10%: Max. 9.3 W PoE (802.3af): Max. 12.18 W
Current	Max. 1 A
Protection Level	With – V model: IEC60068-2-75Eh, 20J; EN50102, up to IK10 for camera housing With – V model: IP66
Dimensions	164 × 152.8 × 45.5mm (6.46" × 6.02" × 1.79") With –V model: 164 × 152.8 × 49.5 mm (6.46" × 6.02" × 1.95")
Weight	1400 g (3.09 lbs)