

# KX - CF2002N3-A

2MP Full-color Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in warm lights, max. illumination distance: 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, scene changing, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Built-in Mic
- Supports max. 256 GB Micro SD card
- 12V DC/PoE power supply



## Technical Specification

### Camera

Image Sensor	1/2.8" 2Megapixel progressive CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	128 MB
RAM	128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Minimum Illumination	0.0017 Lux@F1.0
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.4 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	2 (Warm light)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

### Lens

Lens Type	Fixed-focal				
Mount Type	φ14				
Focal Length	2.8 mm 3.6 mm				
Max. Aperture	2.8 mm: F1.0 3.6 mm: F1.0				
Field of View	2.8 mm: 107° (Horizontal) × 55° (Vertical) × 127° (Diagonal) 3.6 mm: 91° (Horizontal) × 47° (Vertical) × 109° (Diagonal)				
Iris Type	Fixed				
Close Focus Distance	2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.3 m (4.3 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	38.6m (126.6 ft)	15.4m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)
	3.6mm	49.7m (163.1 ft)	65.3m (108.6 ft)	32.5m (54.5 ft)	18.0m (27.2 ft)

### Smart event

General IVS Analytics	Tripwire; intrusion
-----------------------	---------------------

### Video

Video Compression	H.265; H.264; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Video Frame Rate	Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)
Stream Capability	2 streams

Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
Day/Night	Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest(ROI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

### Audio

Built-in MIC	Yes
Audio Compression	G.711A; G.711Mu; G.726; AAC

### Alarm

Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception
-------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### Network

Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP; Bonjour
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
User/Host	20 (Total bandwidth: 72 M.)
Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	iOS; Android

## KX - CF2002N3-A

2MP Full-color Network Camera

### Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 7.1W

### Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67

### Structure

Casing	Inner core: metal; cover: plastic ( pedestal: plastic )
Dimensions	100.9 mm × Φ109.9 mm (4.0" × Φ4.3")
Net Weight	0.365 kg (0.8 lb)
Gross Weight	0.527 kg (1.2 lb)

### Dimensions (mm[inch])

