



Day & Night 12MP 360° Panorama Dome IR IP Camera



Features

- Full HD 12.0 megapixel CMOS image sensor
- True H.264 AVC High Profile video compression
- H.264 and Motion JPEG multi-profile video streaming
- 3D noise reduction
- 2D WDR function
- Support 4000x3000 resolution original image video streaming output
- Support 360-degree field of imaging and an ROI video streaming output simultaneously
- Provide 360-degree view of entire scene without any blind spot
- 360-degree entire scene from one camera and no mechanical PTZ (Pan, Tilt, Zoom) motor needed
- Up to 4 independent distortions corrected view angle can be specified (dewarping)
- Audio / Motion detection alarm function
- High efficiency IR LED, radiant distance up to 5m
- Day & Night (IR cut removable)
- 2-way audio supported
- Digital I/O: 1 in, 1 out
- ONVIF Profile S supported

Description

Seeing everything in a scene – More efficiently than with multiple cameras

LILIN FR33C2 is a fixed dome IP security camera featuring a fisheye lens for 360° panoramic wide angle view without any blind spots. The fisheye lens with high resolution provides 360° wide view surveillance, and the panorama function with quad view enables 4 different angle images to display for recording and monitoring at the same time. This latest fisheye fixed dome network camera introduced by LILIN, featuring a detailed 12-Megapixel resolution CMOS sensor with superb image quality. With flexible design of FR33C2 allows it to be applied in various IP surveillance environments. LILIN FR33C2 delivers clear images via multi-streaming H.264 and Motion JPEG video up to 4000 x 3000 pixels, and also offers electronically pan, tilt, and zoom function that allows can give users access different video modes including: 180° panorama view or 360° source image view.

Specifications

Model	FR33C2
Image Sensor/Sensor type	1/1.7" CMOS image sensor
Effective pixels	4072 (H) x 3046 (V) = 12,403,312 (pixels)
Video Compression	H.264 Main and High Profile, Motion JPEG
Resolution	4000x3000(12MP), 3840x2160(4K/8MP), 3840x768, 2048x2048, 1920x1080(1080P), 1280x720(720P), 720x480(D1), 480x480
Frame Rates	H.264: up to 30 fps @ 1920 x 1080, MJPEG: up to 30 fps @ 720 x 480 / H.264: up to 20 fps @ 4000 x 3000, MJPEG: up to 20 fps @ 720 x 480 / H.264: up to 30 fps @ 3840 x 768, MJPEG: up to 30 fps @ 720 x 480 / H.264: up to 30 fps @ 2048 x 2048, MJPEG: up to 30 fps @ 480 x 480
Lens	1.65 mm
Iris	F2.8
Angle of View	(H)190°(V)190°(D)190°
Max IR distance	5M
Infrared LED Angle	90°
Video streaming	RTP/HTTP, RTP/ TCP, RTP/UDP, Multicast

Video bitrate	128Kbps-12Mbps ; Frame rate and bit rate controllable on-the-fly ; VBR / CBR / GOP supported
Peak wavelength	850nm
Scanning System	Progressive scan
IR cut filter	Auto / Schedule / Day (Color) / Night (Mono)
Min. illumination/Low Light Mode (Colour)	Color: 0.1 Lux at F2.8, Mono: 0.01 Lux at F2.8
White Balance	Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Outdoor2
Back Light Compensation (BLC)	Off / On
Shutter Time	1/30(1/25)s – 1/30000s
Sense Up	Off / 1 Frame / 2 Frames
Sense Up+	Yes
Auto Gain Control	36 dB Variable Gain
3D Noise Reduction	Off / 1-32 selectable
2D WDR	Off / Auto / x2 / x3 / x4
Privacy Masking	Off / On (4 zones)
Other functions	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip
Audio Input / Output	Mono, 1.98 Vp-p, 3.5mm phone jack
Encryption	Base64 HTTP encryption
Access	Multiple user access levels with password protection
User accounts	10 user accounts available
IP address filter	IP filter with access log
Users	8 simultaneous users
ePTZ & Digital Zoom	Up to 4 independent distortion corrected view angle, 360-degree field of imaging, and an ROI supported
OSD (On-Screen Display)	Text overly for date, time, and camera name
Alarm event triggers	Alarm / Motion / Audio detection triggering recording into SD card , Image upload over FTP and E-mail by alarm / Motion / Audio detection

CPU	Embedded SoC, 1.2GHz Dual ARM Cortex-A9 & 600MHz ARM11, 1GB DDR3, 256MB flash memory
Firmware	Firmware upgrade via HTTP , Firmware available at web site
Network Interface/Ethernet	10Base-T / 100Base-TX / 1000Base-T, RJ-45
CE	Yes
FCC	Yes
OS requirement	Windows 7, Windows 8 or above
Web browser	Internet Explorer 10 or above
CPU requirement	Intel Core 2 Duo E6400 2.13GHz or above
RAM requirement	2GB or above, Independent Display Card
Protocols	IPv4, IPv6, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SNMP
Mobile phone	iPhone, iPad, and Android support
Video Management	Lilin Navigator Enterprise support
Video Display	LILIN Universal ActiveX & LILIN Java Applet
Screen mode	Full Panorama / Wide Panorama / Around Panorama / 4 Window / 1 Window
OS	Embedded Linux 3.8
Audio	2-way audio , G.711 / PCM
SD Card (recording)	Support Micro SD/SDHC/SDXC card for circular recording (card is not included)
Alarm Input / output	Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay contact N.O., Load max. 40VDC/300mA), Terminal Block
IP Rating	IP66
Vandal Resistant Rating / IK Rating	IK10
Operating temperature	-25°C+ 50°C (-13°F-122°F)
Dimensions	Ø 117 x 55mm
Weight	400g

Power Supply	DC12V \pm 10% / PoE (IEEE 802.3af compliant)
Power Consumption	DC12V, 8.1W / PoE, 7.1W
