

Panoramic series | Panorama Dome

FD2452 / FD2452V

Day & Night 360° Panorama Dome HD IP Camera

www.meritlilin.com



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

LILIN FD2452 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 5-Megapixel resolution CMOS sensor with superb image quality. With flexible design of FD2452 allows it to be applied in various IP surveillance environments. LILIN FD2452 delivers clear images via multi-streaming H.264 and Motion JPEG video up to 1,920 x 1,080 pixels, and also offers electronically pan, tilt, and zoom function that allows can give users access different video modes including: 180° double table/broad view or 360° source image view.



- ▶ Panoramic IP camera
- ▶ 360° / 180° view
- ▶ ePTZ – digital pan, tilt, and zoom
- ▶ No software required to view image
- ▶ De-wrapping hardware technology so you clearly see the entire original scene
- ▶ HD resolution with 5MP CMOS sensor
- ▶ Cover a large area
- ▶ IR cut filter for day/night operations
- ▶ 1080p HD resolution

Dimensions: Ø 145mm x 60mm

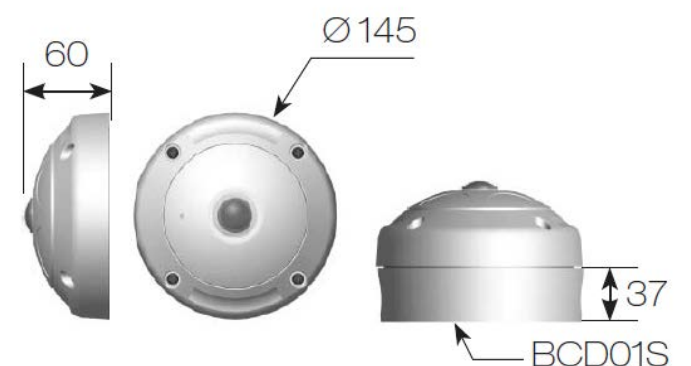
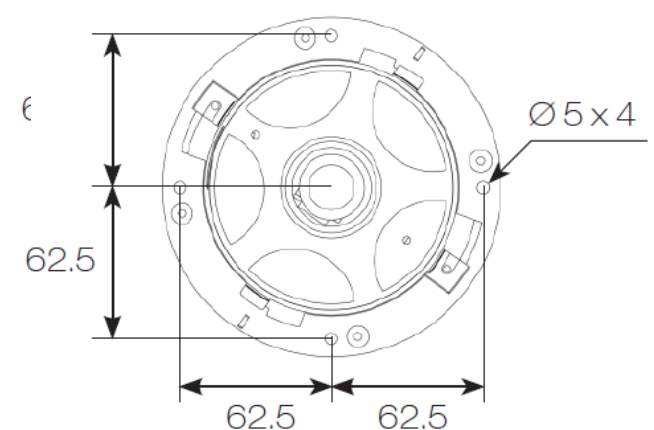


Diagram of mounting holes (unit in mm):



4 cameras in 1

Four cameras in one to view four images on the same screen. It is a perfect solution to cover a large area such as entrances, exits, and lobbies



Video Security App

Available on Android and iOS – **LILIN Pro** app provides security alarm push notification, real-time live viewing, and remote video playback



ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. FD2452/V camera is ONVIF Profile S conformant



Privacy Masking

Privacy Masking is a feature used to protect personal privacy by concealing private areas in the camera's field of view. Doorways and house windows for example are not subject to surveillance



SD Cards in Sync with NAV Software

FD2452/V camera with built-in Micro SD/SDHC card slots can provide redundant video viewing and recording. You can synchronise an SD card with LILIN VMS (Video Management Software) – Navigator (NAV)



Wind and Rain Standards

Meet international IP54 standards for dust and moisture resistant allowing you to install cameras in environments subject to wind and rain



Wide Dynamic Range

Wide Dynamic Range (WDR) displays details of both the brightest and darkest areas. WDR can extend image visibility under high contrast lighting scenes and improve image quality



Day and Night Operations via Removal of the IR-cut filter

FD2452/V camera was designed using a mechanical IR cut filter for increased IR sensitivity resulting in improved night time images. The removable IR-cut filter allows day and night operations even in the low lux condition providing outstanding vision



Motion Detection

Detect motion and capture the event. Motion in the selected area will provoke an alert



Alarm Detection

Alarm Detection is designed to provide the electronic detection of intruders



Noise Reduction

Remove noise from a signal. Suppressing noise in an image in low light conditions and able to retain quality videos at the same time



Impact Resistant

IK8-certified housing designed to protect the camera from destructive behaviour



Day & Night 360° Panorama Dome HD IP Camera

Video performance & Power		
Model#	FD2452E	FD2452V
Low Light Mode (Color)	0.7 Lux at F2.8 (Low light mode)	
Power consumption	DC12V, 8W / PoE, 9.2W	
Power supply	DC12V ±10% / PoE (IEEE 802.3 af compliant)	

Sensor	
Sensor type	1/2.5" CMOS image sensor
Effective pixels	2592 (H) x 1944 (v) = 5,038,848 (pixel)

Certifications		
Model#	FD2452E	FD2452V
CE	Yes	
FCC	Yes	
IP rating	-	IP54 weather proof
IK rating	-	IK8 vandal proof

Lens		
Focal length	1.05 mm	
Iris	F2.8	
Angle of View	H	185 °
	V	185 °
	D	185 °

Environmental	
Ambient operating temperature	-25°C-+ 50°C (13°F-122°F)

PC requirement	
CPU	Intel Pentium 4 1.8GHz or above
OS	Windows 2000, Windows XP, Windows Vista, Windows 7, Windows 8
RAM	1GB or above, Independent Display Card
Web browser	Microsoft® Internet Explorer® 6.0 or later

Mechanical	
Dimensions	Ø 145 x 60mm
Weight	600g approx.

Input / output	
Live video output	Cvbs 1.0Vp-p, 75 ohm, BNC connector
Audio input / output	Mono, 1.4 Vp-p, 50 kΩ, 3.5mm phone jack
Alarm input / output	Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay contact N.O., Load max. 40VDC/300mA)

Video sreaming	
Video compression	H.264, Motion JPEG
Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast
Bitrate	128Kbps-10Mbps Frame rate and bit rate controllable on-the-fly VBR / CBR / GOP supported
IP address filter	Yes
RTSP Authentication	On / Off

Video resolution (H x V)		
1080P	1920 x 1080	
720P	1280 x 720	
D1	720 x 480	
CIF	352 X 240	
Multiple profile	Profile #1	H.264: up to 30 FPS @ 1920 x 1080, Mjpeg: up to 30 FPS @ 720 x 480
	Profile #2	H.264: up to 30 FPS @ 1280 x 720, Mjpeg: up to 30 FPS @ 352 x 240
	Profile #3	H.264: up to 30 FPS @ 1920 x 1080, Mjpeg: up to 30 FPS @ 1280 x 720
	Profile #4	H.264: up to 30 FPS @ 720 x 480, Mjpeg: up to 15 FPS @ 1920 x 1080

Video functions	
Day/Night (IR-cut filter)	Color (Day), Monochrome (Night), Auto, Schedule
Scanning system	Progressive scan
White balance	Auto / fluorescents1 / outdoor1 / outdoor2
Shutter range	Auto / 1 / 2 / 3
Privacy masking	Off / on (4 zones)
Auto gain control	Auto
Image effects	Brightness, contrast, saturation, sharpness
D/N quality setting	Yes

Integration	
Mobile application	Integrated to LILIN mobile app (LILIN Pro) iPhone, iPad, Android support
Video management	ONVIF Profile S LILIN CMX3.6 NAV 1.0 Third party VMS through LILIN HTTP API
Firmware	Firmware upgrade via HTTP Firmware available to download at meritilin.com
Alarm event actions	FTP, SMTP, HTTP post, SD card, SAMBA
Alarm weighted mode	Yes

Network	
OS	Embedded Linux 2.6.32
Ethernet	10Mbps / 100Mbps base-t, RJ-45
Connectivity	ONVIF Profile S
Users	8 simultaneous users
OSD	Text overly for date, time, and camera name
CPU, Memory	Embedded SoC ARM11, 528MHz, 256MB DDR2, 256MB flash memory
Video display	LILIN Universal ActiveX & LILIN Java Applet
2-way audio supported	G.711 / PCM
Protocols	IP, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SNMP, SIP, Bonjour
Multi IP address	Yes

Network security	
User accounts	10 user accounts available
Access	Multiple user access levels with password protection
Encryption	Base 64 HTTP encryption
Access log	IP filter with access log

Main functions	
3D Noise Reduction	Off / 1-32 selectable
Alarm function	Alarm / audio / motion detection triggering recording into sd card
	Image upload over ftp and e-mail by audio / motion detection
SD card recording	Support Micro SD/SDHC card for circular recording (card is not included)
Screen mode	Full panorama / wide panorama / around panorama / 4 window / 1 window
2D Wide Dynamic Range	Off / auto / x2 / x3 / x4
ePTZ	Yes, controllable