

Panoramic series | Panorama Dome

# FD2452 / FD2452V

## Day & Night 360° Panorama Dome HD IP Camera

www.meritlilin.com



- SD card recording
- IP54 | IK8
- Easy to install
- 2-way audio
- Day / Night
- IP based

- ▶ 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

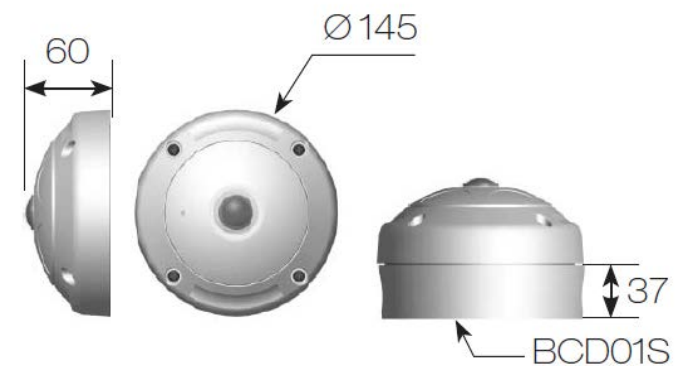
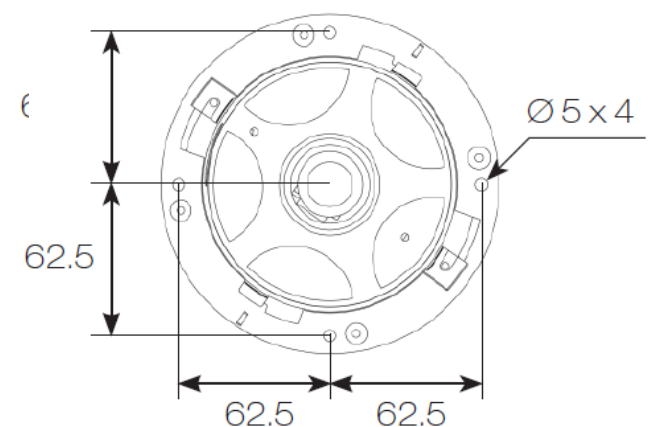


Diagram of mounting holes (unit in mm):



Full HD  
1080

ONVIF S

### 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.

## 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 – **LILINViewer** 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 (Colour)	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 )
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### 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 streaming

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

### 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)	Colour (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

### Integration

Mobile application	Integrated to LILIN mobile app (LILINViewer) 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 <a href="http://meritlilin.com">meritlilin.com</a>

### 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

### 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