IPS2102E

10X Day & Night 1080P HD PTZ Camera

www.meritlilin.com

Speed Dome	H.264	Back Light Compensation
PTZ control	Day / Night	10X zoom
IP based	SD card recording	IR Infrared night vision

▸ PTZ camera

▸ Clear night vision with built-in IR infrared

▸ 10X optical zoom

▸ IR cut filter for day/night operations

▸ 1080p HD resolution

Full HD 1080
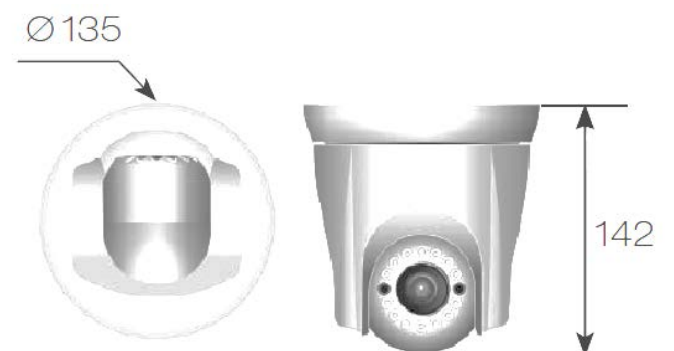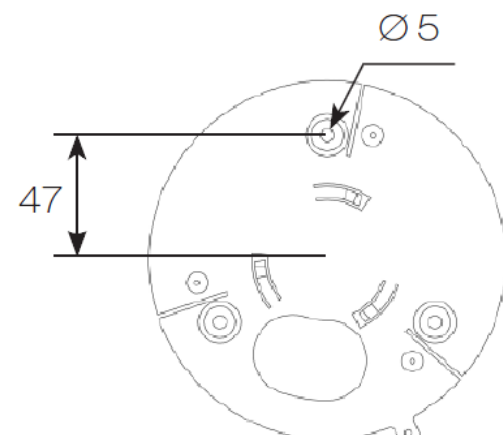
Onvif S

Dimensions: Ø 135mm x 142mm

Ø 135

142

Diagram of mounting holes (unit in mm):

Ø 5

47
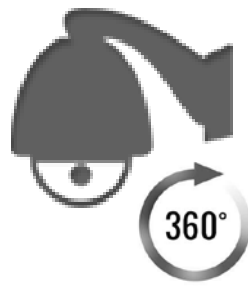
The IPS2102E is 10X Day & Night 1080P HD PTZ Dome IR IP Camera that compliment LILIN's already established HD PTZ series of cameras. The camera can be powered through High Power over Ethernet, which complies with the PoE standard IEEE 802.3at. The high-speed dome is capable of streaming HD video at up to 30 FPS. Combine this with digital noise reduction technology and adaptive tone reproduction and the contrast of images in bright or dark areas is dramatically improved. Capable of making 360° continuous panning, users can accurately position the camera to identify specific targets

PTZ Control Function

Pan-Tilt-Zoom (PTZ) cameras are able to perform remote directional and zoom control. Capable of making 360° continuous rotations and 120° tilt angle, the cameras field of view can be quickly zoomed and repositioned as needed to identify specific targets

Back Light Compensation

Back Light Compensation (BLC) adjusts the exposure of the entire image to properly expose the subject in the foreground. No matter if the main object is moving toward left, right, upper, lower, or any location in the screen, BLC provides perfect exposure for an object in front of strong back light

Video Security App

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

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

IPS2102E 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
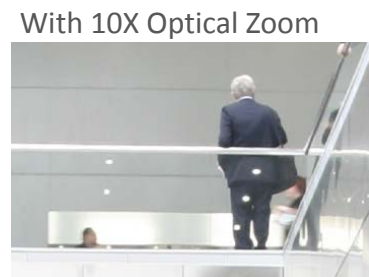
ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. IPS2102E PTZ camera is ONVIF Profile S conformant

Motion Detection

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

10X Optical Zoom

Remote pan/tilt/zoom operations with 10X optical lens makes it possible to zoom in on distant object with absolute clarity

With 10X Optical Zoom

Alarm Detection

Alarm Detection is designed to provide the electronic detection of intruders

SD Cards in Sync with NAV Software

IPS2102E 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)

IR Infrared Night Vision

Infrared PTZ options with built-in LEDs that are able to see in almost complete darkness, providing clear, detailed video clarity at night-time for round-the-clock video surveillance
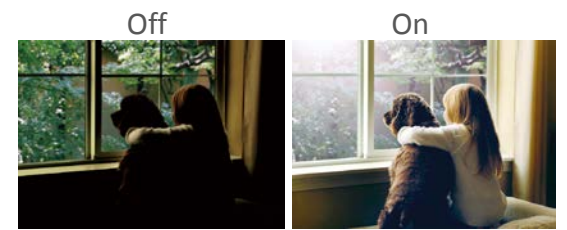
Two-way Audio Support

With 2-way audio communication, you can project your voice through the camera's speaker instead of hearing what's going on (1-way audio)
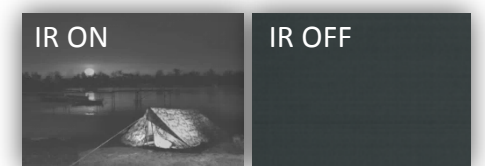
Ceiling Mount

The IPS2102E can easily be mounted to any ceiling

10X Day & Night 1080P HD PTZ Camera

Video performance & Power

Model#	IPS2102E
Low Light Mode (Colour)	Color : 0.5 Lux at F1.8 , Mono : 0 Lux (IR ON)
Power consumption	13W / 15.5W
PoE+	High power PoE
Power supply	DC12V / PoE+

Sensor

Sensor type	1/3"MOS Sensor
Effective pixels	1944(H) x 1092(V) = 2,122,848 Pixels
Total number of pixel	2010(H) x 1108(V) = 2,227,080 Pixels

Certifications

CE	Yes
FCC	Yes

Lens

Zoom ratio	10X optical zoom
Focal length	4.9mm ～49mm
Minimum aperture ratio	1:1.8 (Wide)～3.0 (Tele)
Minimum object distance	1m (Tele)
Iris range	F/1.6～F/360
Angle field of view	Wide : 57.23°(H) 34.07°(V), Tele : 6.25°(H) 3.51°(V)

Pan & Tilt

Iris	F1.8～F16, Close
Digital zoom ratio	64X
Panning range	360° Endless
Panning mode	Manual , Auto , Manual Position , Sequential Position
Panning speed	Manual approx. 0.5 °/s～90 °/s 8 Steps, Preset approx. 1 °/s～120 °/s 8 Steps
Tilting range	0°～90°
Tilting mode	Manual , auto , manual position , sequential position
Tilting speed	Manual approx. 0.5 °/s ～90 °/s 8 Steps, Preset approx. 1 °/s～120 °/s 8 Steps

Environmental

Ambient operating temperature	-10°C～+ 50°C (14°F～122°F)
Operating humidity	0%～90%

PC requirement

CPU	Intel Pentium 4 1.8GHz or above
OS	Windows 2000 , Windows XP , Windows Vista, Windows7
RAM	1GB or above ,Independent Display Card
Web browser	Microsoft® Internet Explorer® 6, 7, 8

Mechanical

Dimensions (H x D)	142mm x 135mm
Weight	1100g approx.

Input / output

Video output	CVBS 1.0 Vp-p / 75 Ω BNC

Video sreaming

Video compression	H.264 , Motion JPEG
Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast
Bitrate	128 Kbps to 5 Mbps Frame rate and bitrate 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
Frame rate	H.264 : up to 30 FPS at 1080P(1920 x 1080)
	Motion JPEG : Up to 30/25 FPS at Full D1 resolution

Video functions

Day/Night (IR-cut filter)	Colour (Day), Monochrome (Night), Auto, Schedule
Scanning system	Progressive scan
White balance	ATW / AWC / Manual (1800K～10500K)
Electric shutter speed	Auto / Manual(1/30(25) to 1/10,000)
Back light compensation	OFF / HSBLC / BLC / WDR
Privacy zone	OFF / ON (Up to 8 Zones Settings)
Auto mode	OFF / AUTO / SEQ / TOUR / PATROL
Schedule setting	OFF / Auto mode / Preset Position
Auto gain control	0 ～ 42dB
Adjustable setting	Sharpness
Digital effect	OFF / Mirror
D/N quality setting	Yes

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 meritlilin.com
Alarm event	FTP,SMTP, HTTP post, SD card, SAMBA
Alarm weighted mode	Support

Network

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

Night vision (infrared LED)

Distance	16m
Peak wavelength	850nm
Beam spread	30°

Main functions

Control function	Pan and Tilt / Zoom and Focus / Iris and ICR / 128 Preset Position / Home Position
Zoom speed	1～15 Selectable [15 : approx. 5.0 second (In to Out) in manual mode]
Focus speed	1～15 Selectable [15 : approx. 5.0 second (Far to Near) in manual mode]
Focus	Auto (Continue / Zoom Trigger / One Push), Manual Focus
Sense up (slow shutter)	Off / Auto (x30)
Digital noise reduction	Off / On (2D, 3D)
Alarm function	Image upload over FTP and E-mail by alarm / motion detection
Web PTZ control	Pan, tilt, zoom in / out, absolute position, and video-click-n-move
PTZ preset scheduling	Yes, via web interface
SD card recording	Support Micro SD/SDHC card for circular recording (card is not included)