IPS5200EA
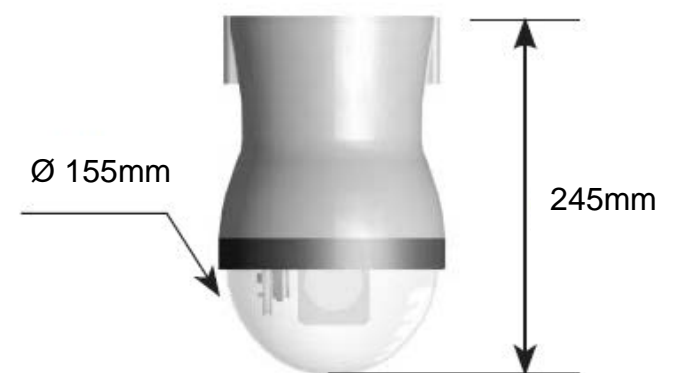
20X Day & Night 30fps Full HD PTZ Dome IP Camera

www.meritlilin.com

▶ Power over Ethernet+

▶ Pan-tilt-zoom capabilities

▶ 20X optical zoom

▶ IR cut filter for day/night operations
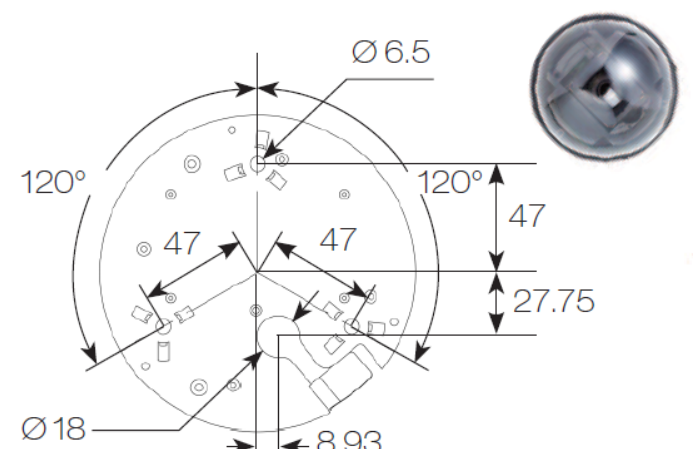
▶ 1080p HD resolution

▶ Wide Dynamic Range up to 90Db

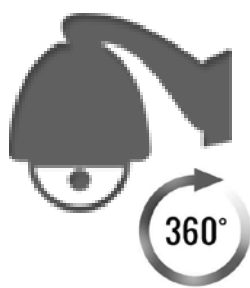**Dimensions:** Ø 155mm x 245mm

Ø 155mm   245mm

The IPS5200EA is 1080P Full HD PTZ Dome IP camera. The high-speed domes are capable of streaming HD video at up to 30 FPS. Featuring LILIN's Wide Dynamic Range (WDR) feature, the IPS5200EA captures highlights and shadows simultaneously, eliminating pixilation and smear. Combine this with 3D 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 rotations with a speed range of 0.15°～360° per second, users can accurately position the camera to identify specific targets. The 20x optical zoom and 16x digital zoom capacity give the IPS5200EA an impressive range. The camera can be powered through High Power over Ethernet, which complies with the PoE standard IEEE 802.3at.

Diagram of mounting holes (unit in mm):

Ø 6.5

120°   120°

47

47   47

Ø 18   8.93

27.75

PTZ Control Function

Pan-Tilt-Zoom (PTZ) cameras are able to perform remote directional and zoom control. Capable of making 360° continuous rotations and 102° tilt angle, the cameras field of view can be quickly zoomed and repositioned as needed to identify specific targets

Video Security App

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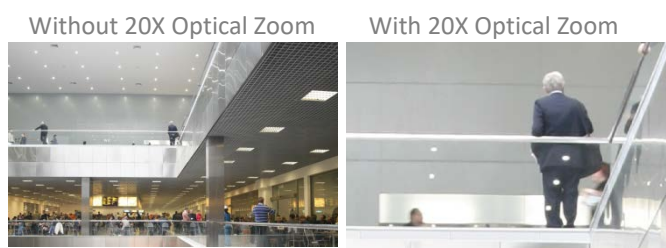
ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. IPS5200EA PTZ camera is ONVIF Profile S conformant

20X Optical Zoom

Remote pan/tilt/zoom operations with 20X optical lens makes it possible to zoom in on distant object with absolute clarity

Without 20X Optical Zoom   With 20X Optical Zoom

SD Cards in Sync with NAV Software

IPS5200EA camera with built-in Micro SD/SDHC/SDXC card slots can provide redundant video viewing and recording. You can synchronise an SD card with LILIN VMS (Video Management Software) – Navigator (NAV)
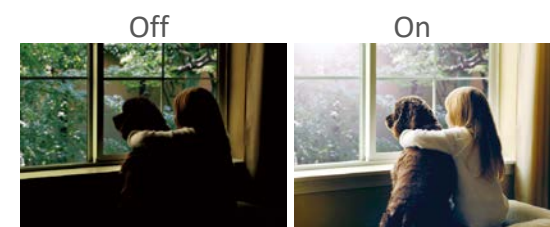
Two-way Audio Support

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)

Back Light Compensation

Off   On

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

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

IPS5200EA 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

ON   OFF

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

Ceiling Mount

The IPS5200EA can easily be mounted to any ceiling

20X Day&Night 1080P Full HD PTZ Dome IP Camera

Video performance & Power

Model#	IPS5200EA
Low Light Mode (Colour)	0.5 Lux (1/30 sec, F1.6(wide), 50IRE, AGC-Gain: 30dB, ICR-OFF Color mode) 0.1 Lux (1/30 sec, F1.6(wide), 50IRE, AGC-Gain: 30dB, ICR-ON B/W mode) 0.2 Lux (1/8 sec, F1.6(wide), 50IRE, AGC-Gain: 30dB, ICR-OFF Color mode) 0.01 Lux (1/8 sec, F1.6(wide), 50IRE, AGC-Gain: 30dB, ICR-ON B/W mode)
Power consumption	PoE+, 14W (does not support the heater)
PoE+	PoE+ (IEEE 802.3at compliant)

Sensor

Sensor type	1/2.8" CMOS image sensor
Total number of pixel	1944 (H) x 1224 (V) = 2.379,456 (pixels)

Certifications

CE	Yes, EMI CLASS A
FCC	Yes, EMI CLASS A

Lens

Zoom ratio	20X optical zoom
Focal length	4.7 mm (WIDE) - 117.5mm(TELE)
Minimum aperture ratio	1: 1.6 (Wide)-3.5 (Tele)
Minimum object distance	30cm (WIDE end), 1.5m (TELE end)
Iris range	F1.6-32, Close
Angle field of view	(H) 59.94°(W) – 3.30°(T) (V) 36.16°(W) – 1.87°(T)

Pan & Tilt

Panning range	360° Endless
Panning mode	Manual, Auto, Manual Position, Sequential Position
Panning speed	Manual approx. 0.15°/s-120°/s 8 Steps, Preset approx. 1°/s-255°/s, Alarm Trigger Speed 360°/s
Tilting range	-6° - +96°
Tilting mode	Manual, Auto, Manual Position, Sequential Position
Tilting speed	Manual approx. 0.15°/s-120°/s 8 Steps, 16 Steps / Preset approx. 1°/s -255°/s, Alarm Trigger Speed 360°/s

Environmental

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

PC requirement

CPU	Intel® Core™ i3 or higher grade
OS	Windows 7 or above
RAM	4GB or above, Dedicated Graphics Card
Web browser	Microsoft® Internet Explorer® 9.0 and later

Mechanical

Dimensions (H x D)	245mm x 155mm
Weight	2300g approx.

Main functions

Control function	Pan and Tilt / Zoom and Focus / Iris and ICR / 128 Preset Position / Home Position
ePTZ & Digital Zoom	16X
Zoom speed	Slow / MID. / Fast Selectable [Fast: Approx. 5.0 Second (Tele to Wide) in Manual Mode]
Focus speed	Slow / MID. / Fast Selectable [Fast: Approx. 5.0 Second (Far to Near) in Manual Mode]
Focus	Auto / Manual
Iris Control	DC IRIS , ALC (Adjustable Output Target Level) / Manual

Input / output

Live Video Output	CVBS 1.0 Vp-p / 75 Ω BNC
Alarm input / output	Digital 6 Input (TTL 5Vdc) , 1 Output (0.5A 120Vac,1A 24Vac) , Terminal block type

Video streaming

Video Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 4 configurable streams in H.264 and Motion JPEG, configurable frame rate and bandwidth
Bitrate	128 Kbps to 8 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
Maximum Frame Rate	60Hz: H.264 30 FPS @ 1920 × 1080, MJPEG 30 FPS @ 720×480 50Hz: H.264 25 FPS @ 1920 × 1080, MJPEG 25 FPS @ 720×480

Video functions

Day/Night (IR-cut filter)	Colour (Day), Monochrome (Night), Auto
Scanning system	Progressive scan
White balance	ATW/Indoor(3200K)/Outdoor(5800K) /Manual(1800K ~10500K)
Shutter	Auto / manual(1/1 to 1/100,000)
Exposure mode	Auto / Manual
Back light compensation	Off / BLC / WDR
Digital noise reduction	Off / On (2D, 3D)
Dynamic privacy zone mask	Off / On (up to 16 areas)
Auto mode	Off / AUTO / SEQ / TOUR
Web PTZ control	Pan, tilt, zoom-in / zoom-out, absolute position, and mouse click function
Schedule setting	Off / Auto Mode / Preset position
Digital image stabilization	Off / On
Auto gain control	50dB Variable Gain
Image Effects	Contrast, Sharpness, Mirror, Flip, Defog, DIS, Digital Zoom(x16)

Integration

Mobile application	Integrated to LILIN mobile app (LILINViewer) iPhone, iPad, Android support
Video management	ONVIF Profile S LILIN Navigator Enterprise 1.0 and 2.0 Third party VMS through LILIN HTTP API
SD card recording	Support Micro SD/SDHC/SDXC card for circular recording (card is not included)
Firmware	Firmware upgrade via HTTP Firmware available to download at meritlilin.com
IVS Basic 1.0	Motion Detection, Audio detection
Alarm event triggers	Alarm / motion / audio / Network lost detection
Alarm event actions	FTP, HTTP post, SD card
Alarm weighted mode	Support

Network

Ethernet	10Mbps / 100Mbps, RJ-45
Connectivity	ONVIF Profile S
User accounts	10 simultaneous users
PTZ preset scheduling	Yes, via Web interface
OSD	Text overlay for date, time, and 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	G.711
Protocols	IPv4, IPv6, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, Telnet, RTSP, RTCP, ONVIF profile S, SNMP, Bonjour
IP Filter	Yes
Multi IP address	Yes

Network security

Max number of online users	10 user accounts available
Access	Multiple user access levels with password protection
Encryption	Base 64 HTTP encryption
Authentication	Digest HTTP authentication, RTSP authentication