



IPS6224EM / IPS6228EM

22X DAY & NIGHT 1.3M HD WDR PTZ DOME IP CAMERA (OUTDOOR)



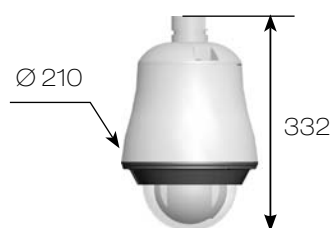
The IPS6224EM/IPS6228M is 1.3M HD WDR PTZ dome IP Camera that compliment LILIN's already established HD PTZ series of cameras. The camera can be powered through High Power over Ethernet, which complies with the PoE standard IEEE 802.3at. The high-speed domes are capable of streaming HD video at up to 30 FPS. Featuring LILIN's Wide Dynamic Range (WDR) feature, the IPS6224EM/IPS6228EM captures highlights and shadows simultaneously, eliminating pixilation and smear. Combine this with 3D digital noise reduction technology and adaptive tone reproduction and the contrast of images in bright or dark areas is dramatically improved.

FEATURES :

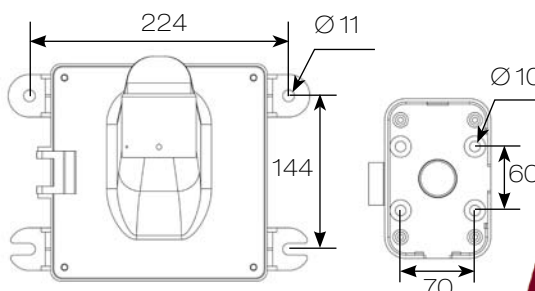
- 22X Optical zoom Lens(4.7 – 103.4mm)
- 10X Digital zoom
- HD 1.3 megapixel MOS image sensor
- True H.264 AVC/MPEG-4 part 10 real-time Video compression
- H.264 and Motion JPEG multi-profile Video streaming
- Wide dynamic range / 3D Digital noise reduction
- High Light Compensation / Digital Image Stabilizer Function
- Dynamic privacy zone mask
- 256X Sens.Up
- Up to 128 Programmable Preset Positions
- 2-way audio supported
- ONVIF supported
- Weatherproof IP66

DIMENSIONS : (Unit : mm)

Ø 210 x 332



INSTALLATION HOLE SITE DIAGRAM :



SPECIFICATION :

Name	22X Day & night 1.3M HD WDR PTZ dome IP Camera (Outdoor)	
Model	IPS6224EM	IPS6228EM
Power supply	AC24V / PoE+ (IEEE 802.3at compliant)	AC100 – 240V / PoE+ (IEEE 802.3at compliant)
Power consumption	37W (with Heater) / PoE+ 14W (does not support the heater)	48W (with Heater) / PoE+ 14W (does not support the heater)
Image pick-up device	Panasonic 1/3" 1.3Mega-Pixel MOS Sensor	
Effective pixels	1280 (H) × 1024 (V) = 1,310,720 (pixel)	
Total number of pixel	1376 (H) × 1070 (V) = 1,472,320 (pixel)	
Scanning system	Progressive scan	
Video output	CVBS 1.0 Vp-p / 75 Ω BNC	
Minimum illumination	Color : 0.07 Lux at F1.6 , Mono : 0.03 Lux at F1.6	
IP rating	IP66	
Ambient operating temperature	-10°C – + 50°C (14°F – 122°F)	
Operating humidity	0% – 90%	
Dimension	332 mm (H) x 210 mm (V)	
Weight	3200 g	
Heater activation	On: 15 °C, Off: 25 °C	
Fan activation	On: 35 °C, Off: 25 °C	
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, Preset approx. 1°/s – 255°/s, Alarm Trigger Speed 360°/s	
Lens		
Zoom ratio	22X Optical zoom	
Focal length	4.7 mm – 103.4 mm	
Minimum aperture ratio	1 : 1.6 (Wide) – 3.1 (Tele)	
Minimum object distance	1.5 m (Tele)	
Iris range	F1.6 – 360 , Close	
Angle field of view	Wide : 54.6° (H) 42.3° (V) / Tele : 2.70° (H) 2.10° (V)	
Main functions		
Control function	Pan and tilt / zoom and focus / iris and icr / 128 preset position / home position / patrol	
Digital zoom ratio	10X	
Zoom speed	Slow / MID. / Fast Selectable [Fast : Approx. 4.0 Second (Tele to Wide) in Manual Mode]	
Focus speed	Slow / MID. / Fast Selectable [Fast : Approx. 4.0 Second (Far to Near) in Manual Mode]	
Auto focus	Auto / One Push Focus	
Iris	ALC (Adjustable Output Target Level) / Manual	
Day & night	Day / Night / Auto / Schedule	
Electronic image stabilizer	Off / On	
Sense up (slow shutter)	1X – 255X	
Electronic shutter speed	1/30 to 1/60,000	
Exposure mode	ALC / ELC	
Back light compensation	BLC / HSBLC	
Digital Wide dynamic range	Off / low / middle / high	
Sharpness	Adjustable	
White balance	ATW / AWC / Manual (1700K – 11000K)	
Auto gain control	Off / low / middle / high	
3D Digital noise reduction	Off / low / middle / high	
Auto mode	OFF / AUTO / SEQ / TOUR	
Dynamic privacy zone mask	OFF / ON (Up to 24 area)	
Digital effect	OFF / V-Flip / Mirror / Rotate	
Alarm input / output	6 Input (TTL 5Vdc) , 2 Output (0.5A 120Vac,1A 24Vac)	
Network		
Video compression	H.264, Motion JPEG	
Resolution	SXGA(1280 x 1024), D1(720 x 480), CIF(352 x 240)	
Frame rate	H.264 : up to 30 FPS at SXGA(1280 x 1024) Motion JPEG : up to 30 FPS at D1(720 x 480)	
Video streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast	
Video bitrate	128 Kbps to 5 Mbps	
	Frame rate and bitrate controllable on-the-fly	
	VBR / CBR / GOP supported	
Security	Base64 HTTP encryption	
	Multiple user access levels with password protection	
	10 user accounts available	
Users	8 simultaneous users	
OSD	Text overlay for date, time, and camera name	
Alarm function	Image upload over FTP and E-mail by alarm / motion detection	
Cpu, memory	Embedded SoC ARM11, 528MHz, 256MB DDR2, 256MB flash memory	
Web PTZ control	Pan, tilt, zoom in / out, absolute position, and video-click-n-move	
PTZ preset scheduling	Yes, via web interface	
Maintenance	Firmware update via HTTP	
	Firmware available at web site	
Network interface	10Mbps / 100Mbps , RJ-45	
Client pc requirement	OS : Windows 2000 , Windows XP , Windows Vista, Windows 7	
	Browser : Windows Internet Explorer 6.0 or above	
	CPU : intel pentium 4 1.8GHz or above	
	RAM : 1GB or above, Independent Display Card	
Network protocols	IP, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, Telnet, RTSP, RTCP, ONVIF ,ICMP, IGMP	
Mobile phone	iPhone, iPad, and Android	
System integration	ONVIF & LILIN HTTPAPI	
CMX	CMX HD 3.6 support	
Video display	LILIN Universal ActiveX & LILIN Java Applet	
OS	Embedded Linux 2.6.32	
Two-way audio	G.711	
SD card recording	Support Micro SD/SDHC/SDXC card for circular recording (card is not included)	



No liability will be accepted for any errors or omissions. Design and specifications are subject to change without notice.