



**Creativity Progress & Excellence**

Network Product





# IPS7224M / IPS7228M

**IMEGAPRO**

**22X Day & Night 1.3M HD WDR  
Speed Dome IP Camera (Indoor)**



## Features

- 22X Optical Zoom Lens(4.7 – 103.4mm)
- 16X 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 Reducure Function
- High Light Compensation Function
- Digital Image Stabilizer Function
- Dynamic Privacy Zone Mask
- 256X Sens.Up
- Up to 128 Programmable Preset Positions
- 2-way audio supported
- Onvif supported

## Dimensions 245 mm (H) x 155 mm (D)



(Unit:mm)

SPEED DOME IP CAMERA SERIES	
Name	22X Day & night 1.3M HD WDR speed dome IP camera
Model	IPS7224M                      IPS7228M
Power supply	AC24V                              AC100 – 240V
Power consumption	15.5W                              16W
Image pick-up device	Panasonic 1/3" 1.3Mega-Pixel MOS Sensor
Effective pixels	1280 (H) x 1024 (V) = 1,310,720 (pixel)
Total number of pixel	1376 (H) x 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
Ambient operating temperature	- 10°C – + 50°C ( 14°F – 122°F )
Operating humidity	0% – 90%
Dimension	245 mm (H) x 155 mm (D)
Weight	2300 g
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 )
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, Windows 8 Browser : Windows Internet Explorer 6.0 or above CPU : intel pentium 4 1.8GHz or above
Network protocols	RAM : 1GB or above, Independent Display Card IP, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF, SNMP
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)