



**Creativity Progress & Excellence**

Network Product





# IPS312

**IMEGAPRO**

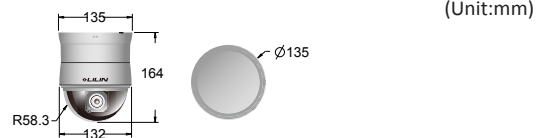
## 12X Day & Night Speed Dome IP Camera



### Features

- 12X Optical Zoom Lens (3.8 – 45.6mm)
- True H.264 AVC/MPEG-4 Part 10 Real-Time Video Compression
- Privacy Zone Masking
- Higher Horizontal Resolution of 540 TV Line
- Auto Focus Lens
- Horizontal Flip
- Auto Panning Function with Auto Scan or Seq. or Tours
- 360° Endless Panning
- Multi-Protocol
- iPhone and Android Supported

### Dimension $\Phi 135$ mm x 164 mm



SPEED DOME IP CAMERA SERIES			
2.6X / 12X Day & Night Speed Dome IP Camera Series			
General	Model	NTSC IP3124N	IP3128N
		PAL IP3124P	IP3128P
	Power Supply	AC 24V $\pm 10\%$	AC 100V – 240V $\pm 10\%$
	Power Consumption	11.5 W	
	Image Pick-up Device	Sony 1/4" Super HAD CCD	
	Effective Pixels	768 (H) x 494 (V) NTSC / 752 (H) x 582 (V) PAL	
	Scanning System	2:1 Interlace	
	Scanning Frequency	15.734 KHz (H) , 59.94 Hz (V) NTSC / 15.625 KHz (H) , 50 Hz (V) PAL	
	Synchronization	Internal	
	Video Output	CVBS 1.0 Vp-p / 75 $\Omega$ BNC	
	Horizontal Resolution	Color : 540 TV Lines, Mono : 600 TV Lines	
	Signal to Noise Ratio	More Than 50 dB ( AGC : Off)	
	Minimum Illumination	Color : 0.3 Lux at F1.6, Mono : 0.06 Lux at F1.6	
	Ambient Operation Temperature	-10°C – +50°C (14°F – 122°F)	
	Operating Humidity	0% – 90%	
Dimensions	164 mm (H) x 135 mm (D)		
Weight	1150g		
Pan & Tilt	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	
	Tilting Range	0° – 90°	
	Tilting Mode	Manual, Auto, Manual Position, Sequential Position	
Lens	Tilting Speed	Manual Approx. 0.5°/s – 90°/s 8 Steps, Preset Approx. 1°/s – 120°/s	
	Zoom Ratio	12X Optical Zoom	
	Focal Length	3.8 mm – 45.6 mm	
	Maximum Aperture Ratio	1 : 1.6 (Wide) – 2.7 (Tele)	
	Minimum Object Distance	1 m	
	Iris Range	F/1.6 – F/360	
	Angle Field of View	Wide : 65.4° ( D ) 52.8° ( H ) 39.7° ( V ) / Tele : 5.54° ( D ) 4.49° ( H ) 3.40° ( V )	
Main Function	Control Interface	RS-485 Half-Duplex	
	Control Function	Pan and Tilt / Zoom and Focus / Iris and ICR / 128 Preset Position / Home Position	
	Character Display	On / Off ( Preset ID : 16 Alphanumeric Characters , Zoom Ratio , Date / Time , Pan / Tilt Angle )	
	Zoom Speed	1 – 15 Selectable [ 15 : Approx. 6.0 Second ( Tele to Wide ) in Manual Mode ]	
	Focus Speed	1 – 15 Selectable [ 15 : Approx. 3.0 Second ( Far to Near ) in Manual Mode ]	
	Focus	Auto / One Push	
	Iris	ALC ( Adjustable Output Target Level )	
	Day & Night	Day (Color) / Night (Mono) / Auto ( ICR Filter Function ) / Schedule	
	Password Lock	Camera Advance / Presets / Privacy Zones / Factory Initial	
	Electronic Shutter Speed	Auto / Manual Selectable ( 1/60 – 1/100,000 sec ) NTSC / Auto / Manual Selectable ( 1/50 – 1/100,000 sec ) PAL	
	Back Light Compensation	On / Off Selectable	
	White Balance	ATW / MWB Selectable	
	Auto Gain Control	0 – 36 dB Selectable	
	Auto Mode	OFF / AUTO / SEQ / TOUR	
	Privacy Zone	On / Off Selectable ( Up to 4 Zones Settings)	
	Image Mirror	On / Off Selectable	
	Schedule Setting	Day & Night / Auto Mode / Daylight Saving Time	
	Peripheral Products	IJ1748D 17W (PoE Injector) / SL1212D 12W (PoE Splitter)	

H.264 NETWORK	
Video Compression	H.264/AVC Main Profile , Level 3 ( I / P / B frames ) , Motion JPEG
Resolution	Full D1 : 720 x 480 (NTSC) / 720 x 576 (PAL) CIF : 352 x 240 (NTSC) / 352 x 288 (PAL)
Frame Rate	H.264 : up to 30/25 FPS at full D1 resolution JPEG : 1 FPS at CIF
Video Streaming	Simultaneous Motion JPEG and H.264 AVC Main Profile Program Stream (PS) and Transport Stream (TS)
OSD Image Watermark	Time / Date and Camera Title
Audio Compression	G.711 / AAC
Video Bitrate	3 Mbps to 56 Kbps Frame rate and bitrate controllable on-the-fly VBR / CBR supported
CAVLC/CABAC	Supported
Security	Base64 HTTP encryption Multiple user access levels with password protection 10 user accounts available
Users	8 simultaneous unicast users (H.264) 8 simultaneous HTTP users (H.264) 8 simultaneous HTTP users (JPEG) Unlimited users using multicast (H.264)
Motion	15x10 motion detection zone Image upload over FTP and e-mail by motion detection
CPU, Memory	Embedded SoC ARM926 , 166 Mhz , 64MB DDR , 4 MB flash memory
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 RAM : 1GB or above, Independent Display Card
ONVIF	ONVIF supported
Network Protocols	IP,TCP,UDP,HTTP,SMTP,ESMTP,NTP,DDNS,FTP,ARP, DHCP,PPPoE,DNS,Telnet,RTP,RTSP,RTCP
Mobile phone Support	iPhone and Android support
System Integration	HTTPAPI / CMX downloadable
Video Display	VLC : H.264 HTTP , unicast , and multicast streaming ActiveX : for JPEG
OS	Embedded Linux 2.6.9