2012

Creativity Progress & Excellence

Network Product

LILIN

Feature Guide for
Series II & III *iMEGAPRO*

Sense Up Plus:

Manufacturers have traditionally utilised frame integration technology to improve the low light performance in CCTV cameras. Whilst effective at producing a low light image, 'motion blur' is a common problem in areas with movement. Sense Up Plus utilises intelligent image signal processing with a highly sensitive CMOS sensor, AGC control and 3D noise reduction provide the ultimate low light image without any 'motion blur' or noise.

Colour　　　　　　　　Colour Sense Up Plus

HD clarity

Quadruple Streaming:

Within the main profile four individual streams are available; two H.264 streams; one at 1080P resolution the other at 480P and two JPEG streams; 480P and CIF resolution respectively. Each can be set up to a maximum 30 FPS. The advantages are that each client can request a stream from the camera to suit its needs. For example the recording device could use the 1080P H.264 stream at 30 FPS, whilst mobile devices might connect to the JPEG CIF stream to save bandwidth and increase transmission speed.

Region of Interest (ROI):

A ROI is a designated area within each camera view. This can then be delivered to the recording device as an individual stream. For example; a shop counter (overall image) is streamed at 2 FPS whilst the ROI is zoomed into the till and streamed at 15 FPS giving faster updates of this sensitive area.

E Tour:

Digitally zoom and move around the camera image. Preset positions can be stored and a tour can then move around those preset positions as though it were a mechanical pan and tilt camera.

Weighted Mode:

Each stream has the option to be set to weighted mode. When enabled the stream will transmit at 1 FPS regardless of the programmed FPS. Upon an alarm the frame rate will increase to its programmed values. This optimises both hard drive recording space and bandwidth usage but still maintains continuous surveillance recording.

IR Illumination:

Already a leader in infrared integration, our expertise in this field has been applied to create the largest ranges of IR integrated IP cameras. IR LED illumination can be achieved for distances up to 60 metres.

ONVIF:

LILIN were the first company in the world to produce a range of ONVIF compatible products. This enables our range of cameras to work with many Video Management Software solutions including, Milestone, Genetec, Axxon, NUUO and GeoVision to name but a few.

Alarms can be activated using a number of modes:

Motion Detection:
Detects motion within a selected zone
Face Detection:
Detects a human face within a selected zone
Tamper Detection:
Detects changes in the camera image, such as spray painting, focus drift or the camera field of view moving
Audio Detection:
Activates an alarm if sound is detected (audio models only)

Other Features:

Privacy Masking:
8 privacy zones to block out parts of the video, ideal for applications such as chip and pin terminals
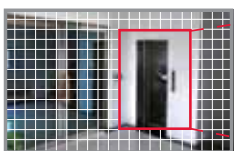### Power over Ethernet (PoE):
Enabling one cable solution for both power and video/data
Graphic User Interface (GUI):
iMEGAPRO II & III use the same user interface as LILINs 720P and 1.3 megapixel IP camera range. This familiar and user friendly interface ensures smooth integration and quick configuration

Motion Detection　　　　Face Detection　　　　　　　Tampering Detection

Recording　　　　　　Detecting　　　　Face　　　　Alarm　　　　Alarm

NEW

IPR7424ESX / IPR7428ESX

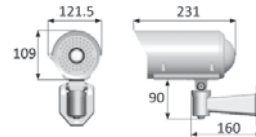## Day & Night 1080P HD Vari-Focal IR IP Camera

Full HD 1080p

Features

- Full HD 2 megapixel CMOS image sensor
- True H.264 AVC/MPEG-4 part 10 real-time video compression
- H.264 and Motion JPEG multi-profile video streaming
- 3D noise reduction (MCTF)
- 2D WDR function
- Digital PTZ supported
- Face / Tampering / Audio / Motion detection alarm function
- Cable managed housing and bracket
- High efficiency IR LED, radiant distance up to 35m
- Day & Night (IR cut removable)
- 2-way audio supported
- Digital I/O : 1 in, 1 out
- Onvif supported
- Support Sense Up Plus and Quadruple Streaming technologies

Icons

CMOS | 1080P | H.264 | Progressive Scan | Audio Two-way | IR Cut Filter | D&N | 35M

IR LED | PoE | IP Rated | Digital I/O | BLC | AGC | AWB | Internet

SD Card | Onvif | Audio | Tampering | Face | Motion | MCTF | 2D WDR

Dimensions

Body : 121.5mm(W) x 109mm(H) x 231mm(D)

Bracket : 160mm(L)
(Unit:mm)

121.5 | 231
109 | 90 | 160

IP CAMERA SERIES				
Day & Night 1080P HD Vari-Focal IR IP Camera				
Model	IPR7424ESX3.6	IPR7428ESX3.6	IPR7424ESX2.4	IPR7428ESX2.4
Lens — Focal Length	3.3 ~ 12 mm		9 ~ 22 mm	
Lens — Iris	F1.4		F1.4	
Lens — Angle of View — H	79.3° ~ 29.8°		29.5° ~ 12.4°	
Lens — Angle of View — V	59.4° ~ 22.4°		22° ~ 9.3°	
Lens — Angle of View — D	99° ~ 37.3°		36.9° ~ 15.5°	
Pick Up Element	1/2.7" CMOS image sensor			
Effective Pixel	1920 (H) x 1080 (V) = 2,073,600 (pixel)			
Chip Size	5.856mm (H) x 3.276mm (V)			
Scanning System	Progressive Scan			
Infrared Cut Filter	Auto / Schedule / Day (Color) / Night (Mono)			
Min. Illumination	0.1 Lux at F1.4 (Low Light Mode) / 0 Lux with IR			
White Balance	Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Outdoor2			
Back Light Compensation	Off / On			
Electronic Shutter	1/30(25)s ~ 1/8000s			
Sense Up	Off / 1 Frame / 2 Frames / 3 Frames / 7 Frames			
Sense Up Plus	Yes			
Auto Gain Control	36 dB Variable Gain			
3D Noise Reduction	Off / 1 ~ 32 Selectable			
2D WDR	Off / On			
Privacy Masking	Off / On (4 zones)			
Image Effects	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip			
Live Video Output	CVBS 1.0Vp-p, 75 ohm			
IP Rating	IP66			
Window	Ø92 Heat Resistant Glass			
Infrared LED — Peak Wavelength	850nm			
Infrared LED — Beam Spread	30°			
Infrared LED — Radiant Distance	35M			
Operating Temperature	-35°C ~ +50°C (-31°F ~ 122°F)			
Dimension	Body : 121.5mm(W) x 109mm(H) x 231mm(D) , Bracket : 160mm(L)			
Weight	1700g			
Power Supply	AC24V (±10%)	AC100~240V (±10%)	AC24V (±10%)	AC100~240V (±10%)
	PoE+ (IEEE 802.3at compliant)			
Power Consumption	14W (PoE+, 16W)			

NETWORK	
Video Compression	H.264 , Motion JPEG
Resolution	1080P(1920 x 1080), 720P(1280 x 720), D1(720 x 480), CIF(352 x 240)
Multiple profile — Profile #1	H.264 1920x1080 @30fps, H.264 720x480 @30fps, JPEG 720x480 @25fps, JPEG 352x240 @25fps
Multiple profile — Profile #2	H.264 1280x720 @30fps, H.264 720x480 @30fps, JPEG 352x240 @25fps
Multiple profile — Profile #3	H.264 1920x1080 @30fps, H.264 720x480 @30fps, JPEG 1280x720 @25fps
Multiple profile — Profile #4	H.264 1920x1080 @30fps, H.264 720x480 @30fps, JPEG 720x480 @25fps
Video Streaming	RTP/HTTP, RTP/TCP, RTP/UDP
Video Bitrate	128Kbps ~ 5Mbps
	Frame rate and bit rate 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
ePTZ & Digital Zoom	Yes, ROI is supported
OSD	Text overlay for date, time, and camera name
Alarm Function	Alarm / motion / tampering / face detection triggering recording into SD card
	Image upload over FTP and E-mail by face / tampering / audio / motion detection
CPU, Memory	Embedded SoC ARM11, 528MHz, 256MB DDR2, 256MB flash memory
Maintenance	Firmware update via HTTP
	Firmware available at web site
Network Interface	10Mbps / 100Mbps Base-T, RJ-45
PC Requirement	OS : Windows 2000, Windows XP, Windows Vista, Windows 7
	Browser : Windows Internet Explorer 6, 7, 8
	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, RTSP, RTCP, Telnet, Onvif
Mobile Phone and PDA	iPhone, iPad, and Android support
System Integration	Onvif & LILIN HTTP API
CMX	Support CMX HD 3.6
Video Display	LILIN Universal ActiveX & LILIN Java Applet
OS	Embedded Linux 2.6.32
Two-way Audio	G.711
SD Card Recording	Support SD/SDHC card for circular recording (card is not included)
Alarm Input / Output	Digital 1 input (TTL, +3 ~ 5V) / 1 Output (N.O.)

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