2012

Creativity Progress & Excellence

Network Product

⑨ 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 to 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 Meters.

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
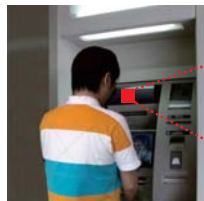
Motion Detection

Recording

Face Detection

Detecting　　　Face

Tampering Detection

Alarm　　　Alarm

IPG1022ESX3

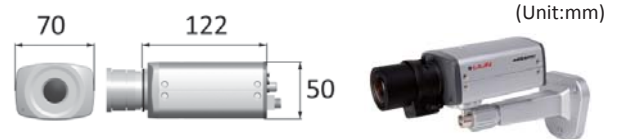## Day & Night 1080P HD IP Camera

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
- Day & Night (IR cut removable)
- 2-way audio supported
- Digital I/O : 1 in, 1 out
- ONVIF supported
- Support Sense Up + and Quadruple Streaming technologies

Icons: CMOS | 1080P | H.264 | Progressive Scan | Audio Two-way | IR Cut Filter | D&N | BLC | AWB | AGC | Internet | Digital I/O | SD Card | Onvif | Audio | Tampering | Face | Motion | MCTF | 2D WDR | PoE

Dimensions 70mm(W) x 50mm(H) x 122mm(D)

(Unit:mm)

70   122   50

IP CAMERA SERIES			
Day & Night 1080P HD IP Camera			
Model			**IPG1022ESX3**
Lens	Focal Length		2.8 ~ 8 mm (CS Mount)
	Iris		F1.2
	Angle of View	H	100.1° ~ 35.8°
		V	72.9° ~ 26.9°
		D	123.8° ~ 44.8°
Pick Up Element			1/2.7" CMOS image sensor
Effective Pixels			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) / External control
Min. Illumination			0.06 Lux at F1.2 (Low Light Mode)
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 +			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, BNC connector
Audio In / Output			Mono, 1.4 Vp-p , 50 KΩ , 3.5mm phone jack
Operating Temperature			-25°C ~ +50°C (-13°F ~ 122°F)
Dimension			70mm(W) x 50mm(H) x 122mm(D)
Weight			550g
Power Supply			DC12V ±10% / PoE (IEEE 802.3af compliant)
Power Consumption			DC12V, 6W / PoE, 7.5W

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 : up to 30 fps @ 1920 x 1080 , MJPEG : up to 30 fps @ 720 x 480
Multiple profile — Profile #2	H.264 : up to 30 fps @ 1280 x 720 , MJPEG : up to 30 fps @ 352 x 240
Multiple profile — Profile #3	H.264 : up to 30 fps @ 1920 x 1080 , MJPEG : up to 30 fps @ 1280 x 720
Multiple profile — Profile #4	H.264 : up to 30 fps @ 720 x 480 , MJPEG : up to 15 fps @ 1920 x 1080
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 Functions	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	CMX HD 3.6 support
Video Display	LILIN Universal ActiveX & LILIN Java Applet
OS	Embedded Linux 2.6.32
Two-way Audio	G.711 / PCM
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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