



**Creativity Progress & Excellence**

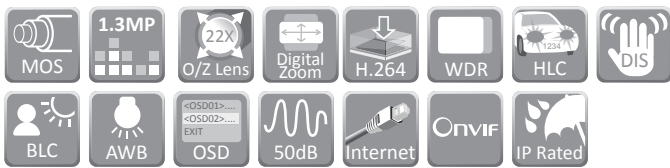
Network Product





# IPS6224M / IPS6228M

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



## 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
- 256X Sens.Up
- Up to 128 Programmable Preset Positions
- 2-way audio supported
- ONVIF supported
- Weatherproof IP 66

## Dimensions $\Phi$ 210 mm x 332 mm



(Unit:mm)

| SPEED DOME IP CAMERA SERIES                                |   |   |                   |
|--|---|---|-------------------|
| 22X Day & Night 1.3M HD WDR Speed Dome IP Camera (Outdoor) |   |   |                   |
| General  | Model   | IPS6224M  | IPS6228M          |
|  | Power Supply  | AC24V   | AC100~240V        |
|  | Power Consumption                                     | 25W (with Heater)   | 63W (with 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                         | - 35°C ~ + 50°C ( -31°F ~ 122°F )   |                   |
|  | Operating Humidity                                    | 0% ~ 90%  |                   |
|  | Dimension   | Φ 210 mm x 332 mm   |                   |
|  | 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   |                   |
| LENS   | Tilting Speed   | Manual Approx. 0.15°/s ~ 120°/s 8 Steps, Preset Approx. 1°/s ~ 255°/s, Alarm Trigger Speed 360°/s |                   |
|  | 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)  |                   |
| Main Functions   | 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 1/120,000   |                   |
|  | Exposure Mode   | ALC / ELC   |                   |
|  | Back Light Compensation                               | BLC / HSBL  |                   |
|  | 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  |                   |
| 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   |
| Security              | VBR / CBR / GOP supported  |
|                       | Base64 HTTP encryption   |
|                       | Multiple user access levels with password protection   |
| Users                 | 10 user accounts available   |
| OSD                   | 8 simultaneous users   |
| Alarm Function        | Text overlay for date, time, and camera name   |
| CPU, memory           | Image upload over FTP and E-mail by alarm / motion detection   |
| Web PTZ control       | Embedded SoC ARM11, 528MHz, 528MB DDR2, 256MB flash memory   |
| PTZ preset scheduling | Pan , tilt , zoom in / out , absolute position, and video-click-n-move                                       |
| Maintenance           | Yes, via web interface   |
| Network Interface     | Firmware update via HTTP   |
|                       | Firmware available at web site   |
| Client PC requirement | Network Interface  |
|                       | OS : Windows 2000 , Windows XP , Windows Vista, Windows 7  |
|                       | Browser : Windows Internet Explorer 6, 7, 8  |
| Network protocols     | CPU : Intel Pentium 4 1.8GHz or above  |
|                       | RAM : 1GB or above, Independent Display Card   |
| Mobile phone and PDA  | IP, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, Telnet, RTSP, RTCP, ONVIF, ICMP, IGMP |
| System integration    | iPhone, iPad, and Android support  |
| CMX                   | ONVIF & LILIN HTTPAPI  |
| Video display         | CMX HD 3.6 support   |
| OS                    | LILIN Universal ActiveX & LILIN Java Applet  |
| Two-way Audio         | Embedded Linux 2.6.32  |
|                       | G.711  |