

## ZCM4230H

### 30x 4MP Ultra Low Illumination Zoom Camera Module



Network zoom camera module is a fully integrated network block camera including Image sensor, long range zoom lens, video encoding, video analysis and network transmission functions. It is designed to be flexible embedded into PTZ cameras, bullet cameras, Pan/Tilt positioning cameras, AGV robot systems, UAV drones, etc. Linovision network zoom camera modules provide standard 36-pin cable and complete SDK/ISAPI protocols. It comes with intuitive WEB GUI and CMS software, and OEM is welcomed.

### Outstanding Features

- Ultra-low illumination full-color camera, through AI ISP image enhancement algorithm, achieves ultra-low light full color and matte full color
- AI AF's self-developed deep learning algorithm module enables faster focusing and more stable focusing.
- Contains 2T intelligent computing power, supports deep algorithm learning, and improves the performance of intelligent event algorithms
- The maximum resolution can reach 4 million pixels (2688×1520), and the maximum output of full HD 2688×1520@30fps real-time images
- 0.0005 Lux/F1.6 (color), 0.0001Lux/F1.6 (black and white), 0 Lux with IR
- Supports 30x optical zoom and 16x digital zoom
- Supports optical fog penetration, greatly improving the foggy effect of images
- Support H.265/H.264 video compression algorithm and support multi-level video quality configuration
- Supports three-stream technology, each stream can be independently configured with resolution and frame rate
- ICR infrared filter type automatic switching to achieve true day and night monitoring
- Supports backlight compensation, automatic electronic shutter and other functions to adapt to different monitoring environments
- Supports 3D digital noise reduction, strong light suppression, electronic image stabilization, and wide dynamic range
- Supports 255 preset positions and 8 cruise scans
- Supports scheduled snapshot and event snapshot functions
- Supports one-key watch and one-key cruise functions
- Support 1 audio input and 1 audio output
- Built-in 1 alarm input and 1 alarm output, supporting alarm linkage function
- Supports Micro SD/SDHC/SDXC card storage that can be expanded up to 256G
- Support ONVIF, GB/T28181 access
- Rich interfaces for easy function expansion
- Small size, low power consumption, easy to connect to dome cameras and PT unit

## Specification

|                                       |                          |   |
|---------------------------------------|--------------------------|---|
| Camera                                | Image Sensor             | 1/1.8" Progressive Scan CMOS  |
|                                       | Minimum Illumination     | Color:0.0005 Lux @ (F1.8, AGC ON); B/W:0.0001Lux @ (F1.8, AGC ON)   |
|                                       | Shutter                  | 1/25s to 1/100,000s; Support delayed shutter  |
|                                       | Aperture                 | DC Drive  |
|                                       | Day/Night Switch         | ICR cut filter  |
| Lens                                  | Focal Length             | 7.1~213mm, 30x Optical Zoom   |
|                                       | Aperture Range           | F1.61-F5.19   |
|                                       | Horizontal Field of View | 59.2-2.55° (wide-tele)  |
|                                       | Minimum Working Distance | 100mm-1500mm (wide-tele)  |
|                                       | Zoom Speed               | Approximately 4s(optical, wide-tele)  |
|                                       | Compression Standard     | Video Compression   |
| H.265 Type                            |                          | Main Profile  |
| H.264 Type                            |                          | BaseLine Profile / Main Profile / High Profile  |
| Video Bitrate                         |                          | 32 Kbps~16Mbps  |
| Audio Compression                     |                          | G.711a/G.711u/G.722.1/G.726/MP2L2/AAC/PCM   |
| Audio Bitrate                         |                          | 64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/16-64Kbps(AAC)  |
| Image (Maximum Resolution: 2688*1520) | Main Stream              | 50Hz: 25fps (2688×1520, 1920 × 1080, 1280 × 960, 1280 × 720);<br>60Hz: 30fps (2688×1520, 1920 × 1080, 1280 × 960, 1280 × 720) |
|                                       | Third Stream             | 50Hz: 25fps (704 x 576); 60Hz: 30fps (704 x 576)  |
|                                       | Image Settings           | Saturation, Brightness, Contrast and Sharpness can be adjusted via the client-side or browse                                  |
|                                       | BLC                      | Support   |
|                                       | Exposure Mode            | AE / Aperture Priority / Shutter Priority / Manual Exposure   |
|                                       | Focus Mode               | Auto Focus / One Focus / Manual Focus / Semi-Auto Focus   |
|                                       | Area Exposure / Focus    | Support   |
|                                       | Defog                    | Support   |
|                                       | Day/Night Switch         | Automatic, manual, timing, alarm trigger  |
|                                       | 3D Noise Reduction       | Support   |
|                                       | Picture Overlay Switch   | Support BMP 24-bit image overlay, customizable area   |
|                                       | Region of Interest       | Support three streams and four fixed areas  |
|                                       | Network                  | Storage Function  |
| Protocols                             |                          | TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,RTCP,NTP,SMTP,SNMP,IPv6  |
| Interface Protocol                    |                          | ONVIF(PROFILE S,PROFILE G)  |
| Intelligent Calculation               | Intelligent Calculation  | 0.8T  |
| Interface                             | External Interface       | 36pin FFC (Network port, RS485, RS232, SDHC, Alarm In/Out,Line In/Out, power) USB3.0  |
| General                               | Working Temperature      | -30°C~60°C, humidity≤95%(non-condensing)  |
|                                       | Power supply             | DC12V±10%   |
|                                       | Power consumption        | 3.3W MAX (ICR, 4.4W MAX)  |
|                                       | Dimensions               | 116.3*67.8*64.5   |
|                                       | Weight                   | 415g  |

## Dimensions

