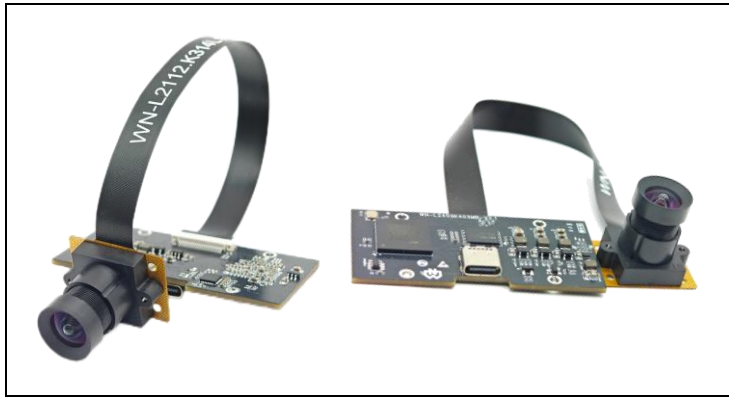


## 4K 8MP USB3.0 Camera Module Specifications



### I. Main Parameters

|                         |  |
|-------------------------|--|
| Product Name            | 4K 8MP USB3.0 Camera Module  |
| Product Code            | WN-L2403MB-VI.I08A10   |
| Module Size             | PCB:60*29mm fpc:170.5mm*23mm   |
| Image Sensor            | 1/2-Inch OS08A10 CMOS Sensor   |
| Max. Resolution         | 3840 H x 2160 V  |
| Pixel Size              | 2.0*2.0μm  |
| Output Format           | MJPEG, YUY2 ,NVI2, H264 , H265   |
| Field of View           | DFOV 93°   |
| Lens                    | EFL: 4.2mm, F/No: 2.6, 3G2P+IR 650nm   |
| Minimum Illumination    | 0.1 Lux  |
| Focus Mode              | Fixed Focus/ Manual Focus  |
| Shutter Mode            | Electronic Rolling Shutter   |
| Output & Power Supply   | High Speed USB3.0  |
| Interface               | Type-C USB3.0  |
| Controllable Parameters | Brightness, Contrast, Saturation, Hue, Sharpness, Gamma, White Balance, Backlight Contrast, Exposure |
| Supported OS            | UVC-compliant, Plug and Play for Windows, Android, Linux, Mac OS, etc.                               |
| Connection Cable        | Default 1.5 Meter USB Cable  |

### 2. Resolutions and Frame Rates

| Formats | Resolutions      | Frame Rates |
|---------|------------------|-------------|
| MJPEG   | 3840x2160(4K)    | 30FPS       |
|         | 2560x1440(2K)    | 30FPS       |
|         | 2592x1944(5MP)   | 30FPS       |
|         | 2048x1536(3MP)   | 30FPS       |
|         | 1600x1200(2MP)   | 30FPS       |
|         | 1920x1080(1080P) | 30FPS       |
|         | 1280x720 (720P)  | 30FPS       |
|         | 640x480 (VGA)    | 30FPS       |
| YUY2    | 3840x2160(4K)    | 15FPS       |
|         | 2560x1440(2K)    | 30FPS       |
|         | 2592x1944(5MP)   | 30FPS       |
|         | 2048x1536(3MP)   | 30FPS       |
|         | 1600x1200(2MP)   | 30FPS       |

|       |                  |       |
|-------|------------------|-------|
| NVI2  | 1920x1080(1080P) | 30FPS |
|       | 1280x720 (720P)  | 30FPS |
|       | 640x480 (VGA)    | 30FPS |
|       | 3840x2160(4K)    | 15FPS |
|       | 2560x1440(2K)    | 30FPS |
|       | 2592x1944(5MP)   | 30FPS |
|       | 2048x1536(3MP)   | 30FPS |
|       | 1600x1200(2MP)   | 30FPS |
| H.264 | 1920x1080(1080P) | 30FPS |
|       | 1280x720 (720P)  | 30FPS |
|       | 640x480 (VGA)    | 30FPS |
|       | 3840x2160(4K)    | 30FPS |
|       | 2560x1440(2K)    | 30FPS |
|       | 2592x1944(5MP)   | 30FPS |
|       | 2048x1536(3MP)   | 30FPS |
|       | 1600x1200(2MP)   | 30FPS |
| H.265 | 1920x1080(1080P) | 30FPS |
|       | 1280x720 (720P)  | 30FPS |
|       | 640x480 (VGA)    | 30FPS |
|       | 3840x2160(4K)    | 30FPS |
|       | 2560x1440(2K)    | 30FPS |
|       | 2592x1944(5MP)   | 30FPS |
|       | 2048x1536(3MP)   | 30FPS |
|       | 1600x1200(2MP)   | 30FPS |

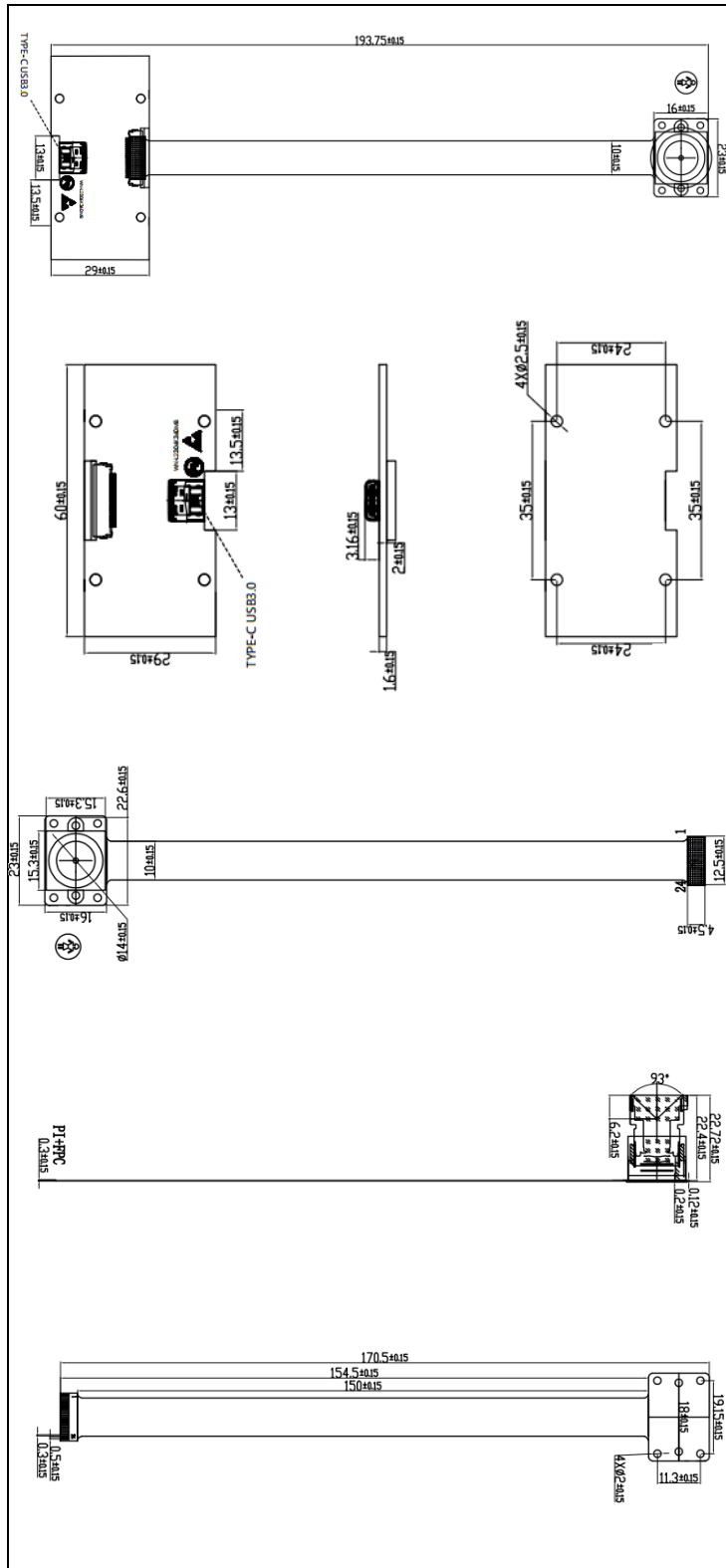
### 3. PIN Definitions

| Pin No. | Signal Names | Descriptions  |
|---------|--------------|---------------|
| 1       | VCC          | 5V Power      |
| 2       | DP           | Data-         |
| 3       | DM           | Data+         |
| 4       | GND          | GND           |
| 5       | SSPXNI       | USB3.0 SSPXNI |
| 6       | SSPXPI       | USB3.0 SSPXPI |
| 7       | GND          | GND           |
| 8       | SSTXNI       | USB3.0 SSTXNI |
| 9       | SSTXPI       | USB3.0 SSTXPI |

### 4. Working Conditions

|                     |                  |
|---------------------|------------------|
| Working Voltage     | USB DC+5V Supply |
| Working Current     | 470mA            |
| Working Temperature | -20°C ~ 60°C     |
| Storage Temperature | -20°C ~ 85°C     |
| Humidity            | 80 ~85%          |

## 5. Shape and Dimensions (Unit: mm)



Shenzhen Weinan Electronics Co.,Ltd.  
 Building 2, Baoke Industrial Park, Longhua, Shenzhen, Guangdong, China  
 Tel: +86 0755 27526467  
 E-mail: sales@weinanelectronics.com  
<https://www.weinanelectronics.com>