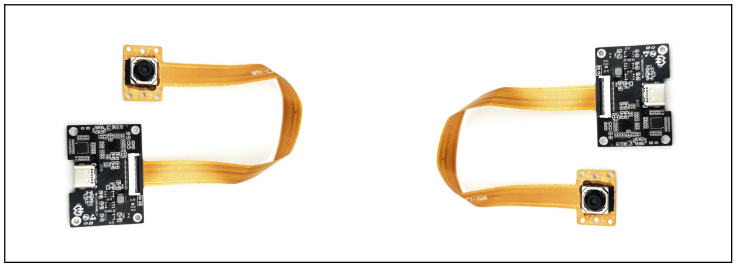
Weinan Electronics

12MP USB3.0 Camera Module Specifications



1. Main Parameters

Product Name	12MP USB3.0 Camera Module
Product Code	WN-L2306K360MB -3781 2M U3
Module Size	PCB: 40*29mm FPC: 150mm
Image Sensor	1/2.3-inch IMX378 CMOS Sensor
Max. Resolution	4000 H x 3000 V 12MP, 3840 HX2160 V 4K
Pixel Size	1.55*1.55μm
Output Format	MJPEG, YUY2, H.264
Field of View	79°
Lens	EFL: 4.77mm, F/No: 1.75, 6P+IR 650nm
Audio Input	Digital Microphone
Focus Mode	Autofocus
Shutter Mode	Electronic Rolling Shutter
Output & Power Supply	High Speed USB3.0
Interface	USB3.0 Type-C
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 1.0 Meter USB Cable

2. Supported Resolutions and Frame Rates

Formats	Resolutions	Frame Rates
MJPEG	4000 x 3000	18FPS
	3840 x 2160	30FPS
	2952 x 1944	30FPS
	2048 x 1536	30FPS
	1920 x 1080	30FPS
	1600 x 1200	30FPS
	1280 x 960	30FPS
	1280 x 720	30FPS
	800 x 600	30FPS
	640 x 480	30FPS
YUY2	4000 x 3000	8FPS
	3840 x 2160	15FPS
	2952 x 1944	30FPS
	2048 x 1536	30FPS
	1920 x 1080	30FPS
	1600 x 1200	30FPS
	1280 x 960	30FPS
	1280 x 720	30FPS
	800 x 600	30FPS
	640 x 480	30FPS
H.264	1920 x 1080	30FPS
	1600 x 1200	30FPS
	1280 x 960	30FPS
	1280 x 720	30FPS
	800 x 600	30FPS
	640 x 480	30FPS

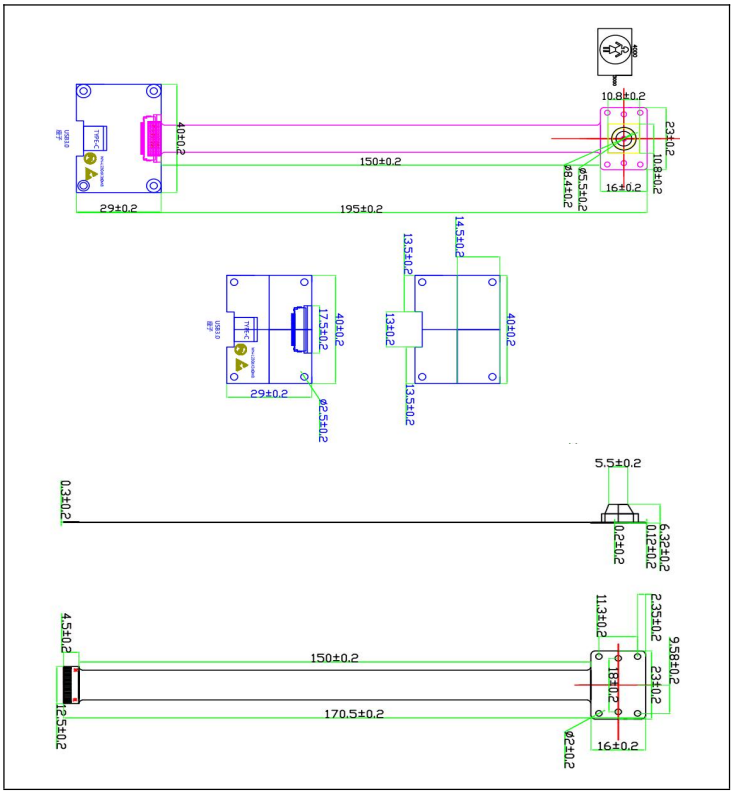
3. PIN Definitions

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	DC 5V
Working Current	480mA
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