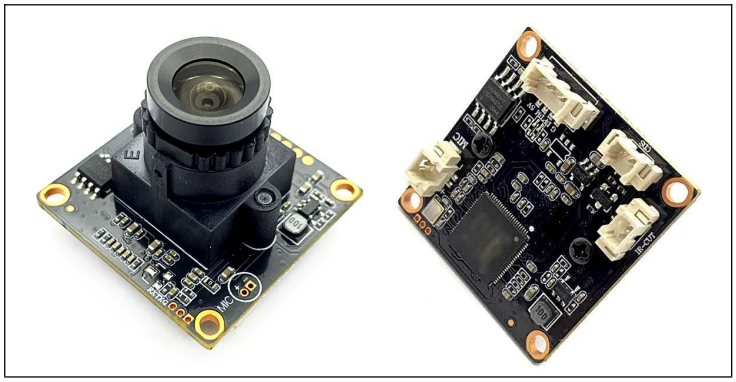
Weinan Electronics

2MP 1080P USB2.0 Camera Module Specifications



1. Main Parameters

Product Name	2MP 1080P USB2.0 Camera Module
Product Code	WN-F5283-V32
Module Size	32*32mm
Image Sensor	1/3.02-Inch GC2083 CMOS Sensor
Max. Resolution	1920 H x 1080 V
Frame Rate	30FPS
Pixel Size	2.7*2.7μm
Output Format	H.265, H.264, MJPEG, YUY2
Field of View	90°
Lens	EFL:3.6mm, F/NO:2.0, 4G+650IR
Image Color	Color
Audio Input	Support
Focus Mode	Fixed Focus/ Manual Focus
Shutter Mode	Electronic Rolling Shutter
Output & Power Supply	High Speed USB2.0
Interface	4PIN 1.25mm Connector
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
H.265	1920x1080 (1080P)	30FPS
	1280x720 (720P)	30FPS
	640x480 (VGA)	30FPS
H.264	1920x1080 (1080P)	30FPS
	1280x720 (720P)	30FPS
	640x480 (VGA)	30FPS
MJPEG	1920x1080 (1080P)	30FPS
	1280x720 (720P)	30FPS
	640x480 (VGA)	30FPS
YUY2	1920x1080 (1080P)	5FPS
	1280x720 (720P)	5FPS
	640x480 (VGA)	30FPS

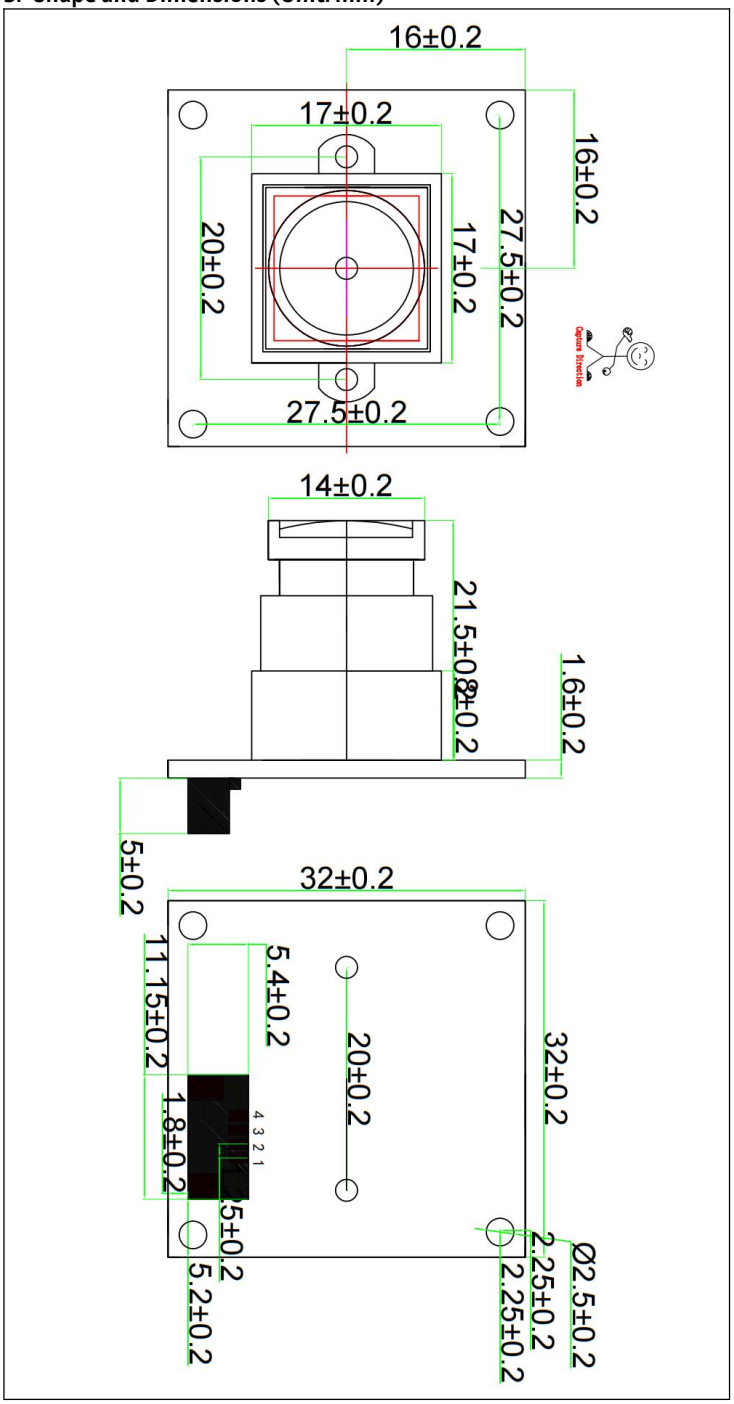
3. PIN Definitions

Pin No.	Signal Names	Descriptions
1	VCC	DC 5V
2	DM	USB2.0 Data-
3	DP	USB2.0 Data+
4	GND	Ground

4. Working Conditions

Working Voltage	DC 5V
Working Current	160mA
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