

The Camera Specification With 0.3M Pixel HD Color CMOS Sensor and USB2.0 output

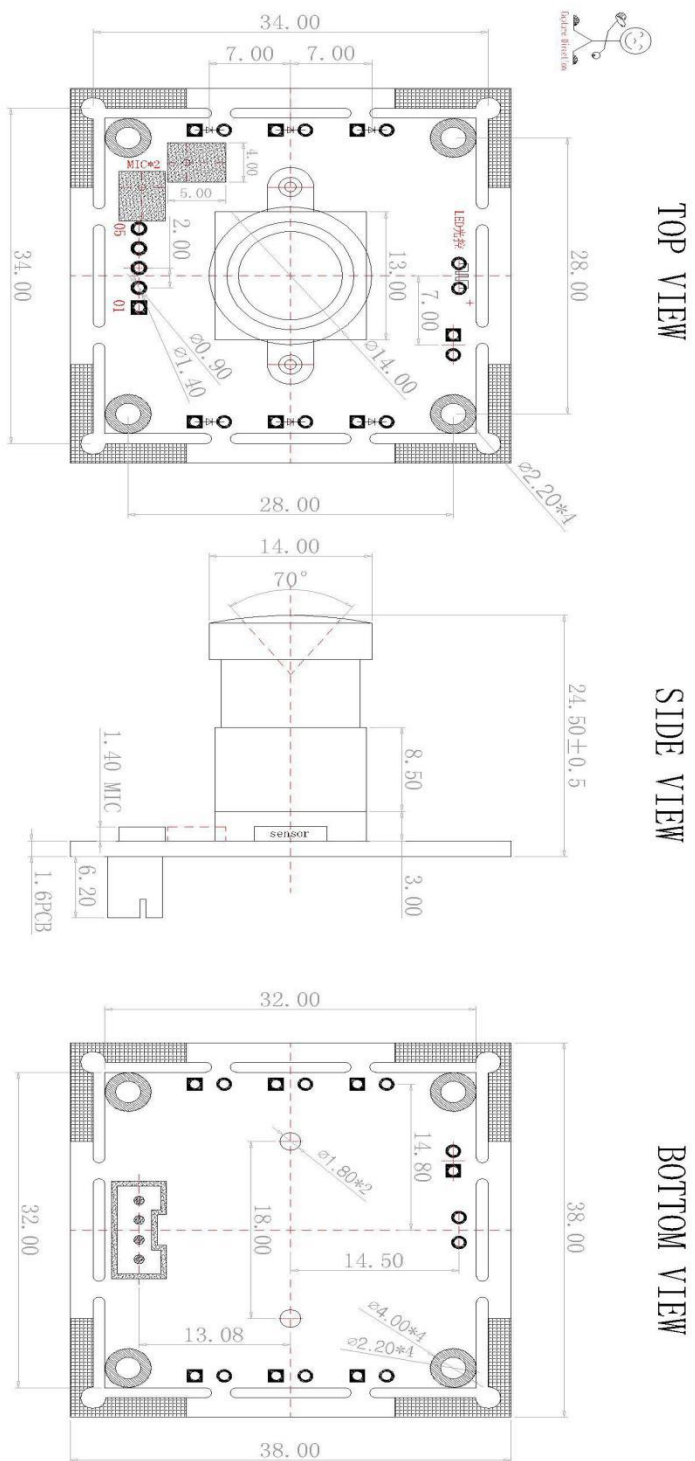


1. Key Specifications (主要规格)

Module No.	DI-USB-001
Module Size	2.5 inch
Temperature (Operation)	-30°C to 70°C
Temperature (Stable Image)	0°C to 50°C
Assembly technique	SMT (ROSH)
Focus	Fixed
Object distance	30CM-infinity
Resolution	600LW/PH (Center)
PCB printing ink	black
interface	USB 2.0
Power suuply	USB bus power
supply voltage	DC 5V±5%
Maximum Power consumption	450 mW
OSI	Supported with UVC
Operating system request	WinXP/Win7/Win8/Win10/MAC OSX/Linux/Android with uvc
Sensor	OV9732 (1/4")

Seneor Package	CSP,Bare Die
Maximum resolution	1280*720
Sensitivity	3300 / (lux-sec)
Pixel Size	3μm x 3μm
Maximum Image Transfer Rate	MJPEG 640x360 30FPS / YUY2 640x360 30FPS MJPEG 640x480 30FPS / YUY2 640x480 30FPS MJPEG 800x600 30FPS / YUY2 800x600 30FPS MJPEG 1280x720 30FPS / YUY2 1280x720 30FPS
S/N Ratio	39db
Max Dynamic Range	69db
Shutter type	Electronic rolling shutter
AGC/AEC/Whiter balance	Auto
Output Formats	YUY2/MJPEG
Microphone	Support
Lens Construction	4G
F/No	2.3
EFL	4.04 mm
FOV	70°
TV Distortion	<-9.5%
Relative Illumination (Sensor)	70%
IR Filter	650±10nm
Module Package	Anti-electrostatic tray
Certifications	FCC/CE/ROSH

2. Module Mechanical Dimension(模组结构图)



Lens Specification

Optical Specification	
Focal Length	4.04mm
FOV (D)	70°
TV Distortion	<-9.5%
F. Number	2.3

PIN	SIGNAL
1	VCC 5V
2	D-
3	D+
4	GND
5	GND

NOTE

- 1 The unmarked tolerance of linear dimension is $\pm 0.1\text{mm}$
- 2 Sensor : 0W9732
- 3 Image direction register use default settings.

4				TOLERANCE								SCALE		PROJ.	☐	⊕	
3			ITEM	ALLOWANCE TOLERANCE							REV	1	QTY	1			
2			ANGLE	±5°													
1	SKETCH				DRAWING	CMOS Camera Module	DATE		Part Name	HBVCM-1807-720P V111							
					CHECKED			UNIT	MM	Customer P/N							
NO.	CHANGE	NAME	DATE		APPROVED		WEIGHT		Material								