
OV5647- 67 FOV IR Camera module for
Raspberry Pi 3B+4B

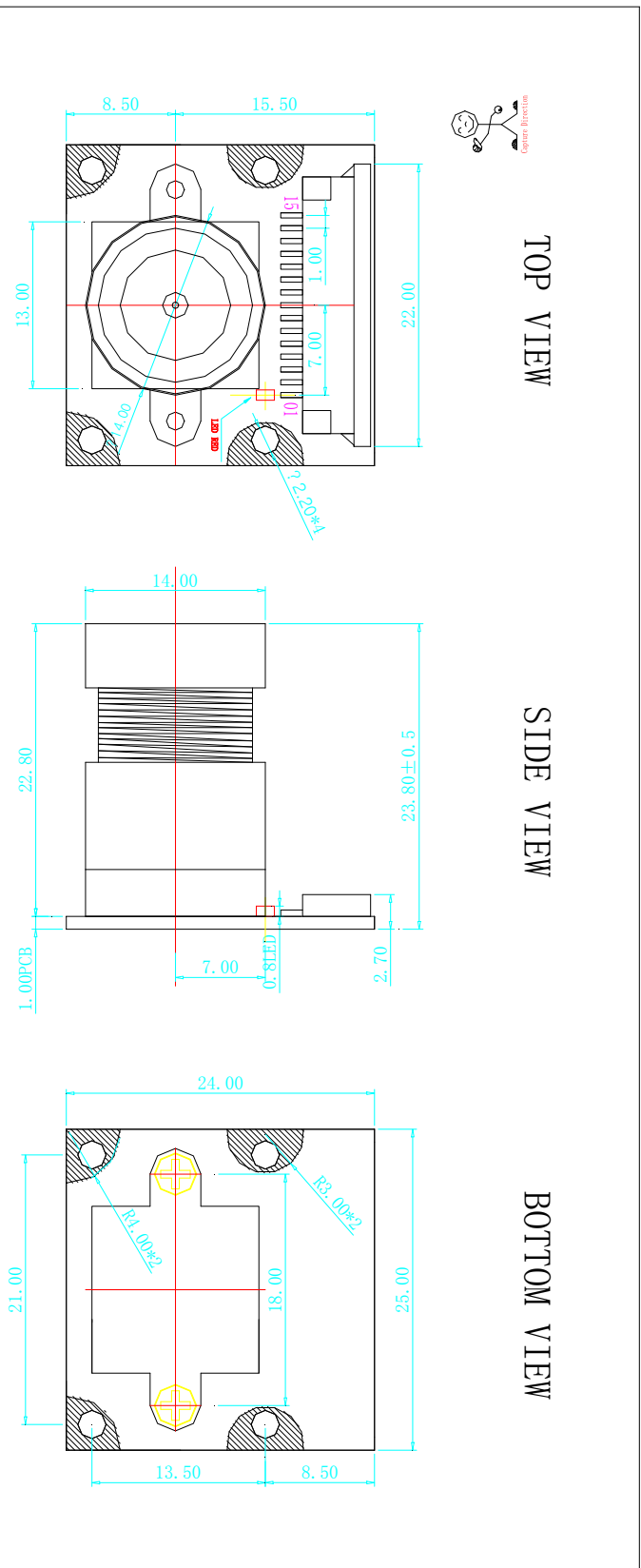
Datasheet



1. Key Specifications

Module No.	HBV-RPI1509B-36 V11
Module Size	25mm×24mm ×23.8±0.5mm
Temperature (Operation)	-20℃ to 70℃
Temperature (Stable Image)	0℃ to 50℃
Assembly technique	SMT (ROSH)
Focus	Adjustable
Object distance	30CM-∞
Resolution	800LW/PH (Center)
PCB printing ink	Black
interface	15p-1.0 mipi
Working power supply	3.3v (pin15)
Operating system	Raspberry Pi
Package	Anti-electrostatic tray
Certifications	FCC and CE
Sensor Type	OV5647 (1/4")
Active Array Size	2592*1944
Sensitivity	600mV/Lux-sec
Pixel Size	1.4μm x1.4μm
Maximum Image Transfer Rate	15 fps for QSXGA;
Output formats	8/10bit RGB RAW output
S/N Ratio	34db
Dynamic Range	67db @8x gain
Package	CSP ,Bare Die
Lens Type	
Lens Construction	4G
F/No	2.0
EFL	3.6mm
BFL(Optical)	6.8mm
FOV	67°
TV Distortion	<6%
Relative Illumination (Sensor)	70%
IR Filter	NO
DSP Type	
AGC/AEC/Whiter balance	
Output Formats	
Fixed Pattern Noise	
Package	

2. Module Mechanical Dimension



TOP VIEW

SIDE VIEW

BOTTOM VIEW

Lens Specification

Optical Specification		PIN DEFINITION					
Focal Length	3.6mm	1	GND	6	CAM1-DP1	11	CAM-GPI0
FOV IDI	67°	2	CAM1-DND	7	GND	12	LED-ON
TV Distortion	<6%	3	CAM1-DPO	8	CAM1-CN	13	SCL0
F Number	F2.0	4	GND	9	CAM1-CP	14	SDAO
		5	CAM1-DN1	10	GND	15	VCC3.3V

NOTE
Sensor: **OV5647**

Image direction register use default settings.

NO.	更改	NAME	DATE	TITLE		CAMOS		Camera Module		SCALE		PROJ.	REV	QTY	SIZE
				DRAWING	CHECKED	APPROVED	DATE	UNIT	MM	SHEET	1 OF				
4												☒	1	1	A4
3															
2															
1															
NO.	更改	NAME	DATE												

Part Name

Customer P/N

Material

HBV-RP11509B-36 VII