VEYE 2Mega STATVIS Camera Module

Product model

- VEYE-MIPI-290
- VEYE-LVDS-290

Features

- 1/2.8 inch 2 Mega STARVIS sensor IMX290 by SONY
- LVDS output: 7:1 interface (VEYE-LVDS-290 support)
- MIPI output: CSI-2 2Lans or 4Lans (VEYE-MIPI-290 support)
- Uncompressed UYVY format, YUV422-8bit
- Standard lens mount
- IR-CUT circuit
- BLC, DOL-WDR, 2D/3D noise reduction, Anti-fog
- Brightness, Contrast, Sharpness, Saturation adjustable
- Support Raspberry PI, FPGA, ZYNQ, RK3288, RK3399, TK1

Applications

- Video surveillance, IP Camera
- Machine Vison, AI
- Smart Home
- ADAS

Technical Details

SENSOR	
Sensor	SONY IMX290LQR-C STARVIS
Pixels	2.13M pixels
Image Size	Diagonal 6.46 mm (Type 1/2.8)
Unit Cell Size	2.9um (H)*2.9um(V)
ISP	
Frame Rate	1080p@25 / 1080p@30fps
Exposure	Auto or Manual
White Balance	Auto or Manual
Shutter	1/25(1/30)s to 1/50,000s
Slow Shutter	Support
Denoising	2D/3D noise reduction
Image Setting	Brightness, Contrast, Sharpness, Saturation, Flip, Mirror
Image Enhancement	BLC, DOL-WDR, Defog
Day/Night Switch	Manual or IR-CUT filter with external trigger
Lens & IR-CUT	
Lens	Support M12*0.5 or M16*0.5 depend on lens mount
Lens Mount with IR-CUT	MTV12 or MTV16
Mounting Hole	2 screw holes with diameter of 2.1mm, Centre distance of 20mm
Interface	
PCB Connector	BTB050040-F1D
Communication Interface	IIC
Video Data Interface	LVDS:3Lane, Bandwidth 1.5582Gbps or MIPI:2Lane/4Lane, CSI2 YUV422-8bit Data Type, Bandwidth 1.188Gbps
IR-CUT Control	IR-CUT motor control, 3.3VDC level
External Trigger	Ambient light synchronization, 3.3VDC level
General	
Operating Conditions	-10℃-50℃, Humidity 95% or less, non-condensing
Power Supply	3.3VDC
Power Consumption	3.3VDC,1.2W
Dimension	38mm*38mm*8mm(not include lens and IR-CUT)