



MiiVii GMSL Camera List

V1.3

北京米文动力科技有限公司
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文档修订记录

文档版本号	修订日期	修订原因	修订人
V1.0	2019/5	建立	SYX
V1.3	2019/10/28	新增摄像头	SYX

MiiVii GMSL Camera Spec

PRT304CMXXS

NO.	ITEM		Description
1	FOV	Horizontal	190°
		Vertical	109.8°
		Diagonal	208°
2	Optical Size		1/4 inch
3	Pixel Size		3.0um
4	Active Pixel		1280 x 800
5	Color Filter Array		RGB
6	Shutter Type		Electronic Rolling Shutter
7	Signal Noise Ratio		41dB
8	Dynamic Range		Up to 96dB
9	Exposure Control		Auto Exposure Control
10	Gain Control		Auto Gain Control
11	White Balance Control		Auto White Balance
12	Minimum Illuminance		< 1 Lux
13	Horizontal Resolution		TBD
14	Vertical Resolution		TBD
15	Gamma		TBD
16	Operation Voltage		5V ~ 12V
17	Power Consumption		190mA@5V, MAIXM 180mA@5V, TI
18	Operation Temperature		-40°C ~ +85°C
19	Storage Temperature		-40°C ~ +105°C
20	Output Format		YUV 422, 8BIT
21	Output Interface		MAX96705 DS90UB913A
22	Connect		IMS 4100.SMBA.2Z10.029 (Male : 4101.SMBA.1Z10.029)
23	Dimensions (W/L/H)		25.00/25.00/35.02 mm
24	Reliability Standard		IP69K
25	Automotive Standard		EX-X46239, ES-X82010

PRT301CMXXS

模组用途(Module Usage)	前视(Forward Camera)
图像传感器(Image Sensor)	OV10640
图像处理器(Image Signal Processor)	OV490
串行器(Serializer)	MAX96705
输出分辨率(Output Resolution)	1280x1080
输出帧率(Output Frame Rate)	25FPS
输出接口(Output Interface)	LVDS
输出颜色格式(Output Color Format)	YUV 422 8bit
动态范围(Dynamic Range)	120dB
像素点面积(Pixel Size)	4.2um x 4.2um
镜头型号(Lens Model)	Sunny 4083
镜头焦距(Focal Length)	6.14mm
镜头光圈(Lens Aperture)	1.6
镜头畸变(Lens Distortion)	<18.6%
镜头景深(Lens Depth)	17.54m~infinity
镜头类型(Lens Type)	6G+IRF(In Lens)
视场角(Field Angle)	H52 V43 D70

PRT302CMXXS

模组用途(Module Usage)	盲区检测(BSD)
图像传感器(Image Sensor)	OV10640
图像处理器(Image Signal Processor)	OV490
串行器(Serializer)	MAX96705
输出分辨率(Output Resolution)	1280x1080
输出帧率(Output Frame Rate)	25FPS
输出接口(Output Interface)	LVDS
输出颜色格式(Output Color Format)	YUV 422 8bit
动态范围(Dynamic Range)	120dB
像素点面积(Pixel Size)	4.2um x 4.2um
镜头型号(Lens Model)	Sunny AR101B
镜头焦距(Focal Length)	1.95mm
镜头光圈(Lens Aperture)	2.0
镜头畸变(Lens Distortion)	<43%
镜头景深(Lens Depth)	16cm~infinity
镜头类型(Lens Type)	4G2P+IRF(In Lens)
视场角(Field Angle)	H128 V105 D145

PRT303CMXXS

模组用途(Module Usage)	环视(Surround View)
图像传感器(Image Sensor)	OV10640
图像处理器(Image Signal Processor)	OV490
串行器(Serializer)	MAX96705
输出分辨率(Output Resolution)	1280x720 (Max 1280x1080)
输出帧率(Output Frame Rate)	30FPS (25FPS for 1280x1080)
输出接口(Output Interface)	LVDS
输出颜色格式(Output Color Format)	YUV 422 8bit
动态范围(Dynamic Range)	120dB
像素点面积(Pixel Size)	4.2um x 4.2um
镜头型号(Lens Model)	Sunny 4066A
镜头焦距(Focal Length)	1.33mm
镜头光圈(Lens Aperture)	2.0
镜头畸变(Lens Distortion)	<-121%
镜头景深(Lens Depth)	7.8cm~infinity
镜头类型(Lens Type)	2G4P+IRF(In Lens)
视场角(Field Angle)	H192 V129 D200 (H192 V134 D200 for 1280x1080)

PRT315CMXXS-PRT318CMXXS

	PRT315CMXXS	PRT316CMXXS	PRT317CMXXS	PRT318CMXXS
传感器	AR1043AT/RGB 1/4inch/1MP			
ISP 型号	AP0101AT			
串行器	MAX96705			
输出像素	1280*V720/30fps			
输出数据格式	YUV/8bit			
视场角	H27° V15°	H59° V50°	H125° V89°	H197° V130°
焦距	12mm	3.6mm	1.28mm	0.93mm
光圈	F1.6	F1.2	F2.0	F2.0
动态范围	>120dB			
供电范围	5~12V			
工作温度	-40~85° C			
防水等级	IP67			
外形尺寸	30*30*22.5			

*注：所有摄像头默认帧率 25fps，支持帧率范围为 14fps-30fps