Merrillchip Electronics 摄像头模组

MERRILLCHIP ELECTRONICS CAMERA MODULE

Merrillchip
ELECTRONICS

产品手册/Product Manual

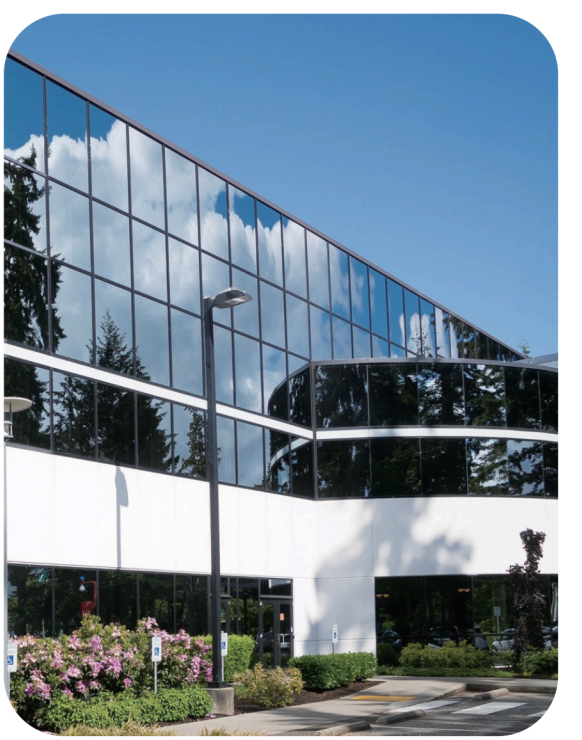
提供摄像头模块整体解决方案

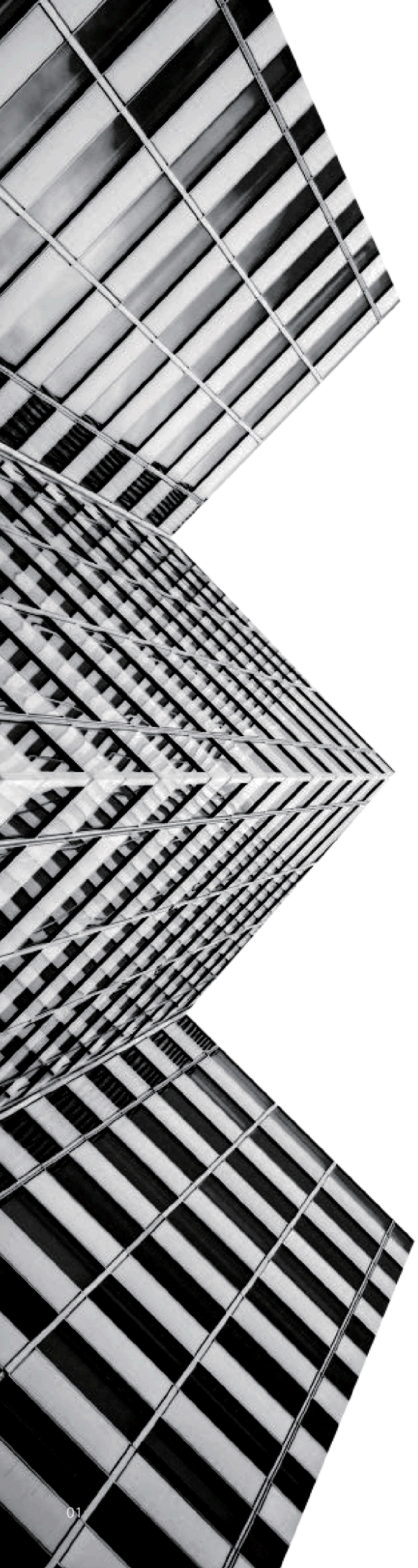
Provide camera module solutions











ABOUT **COMPANY**

Merrillchip Electronics 成立于2010年，公司专业，专注于研发、生产、销售CMOS摄像头模组厂家；

公司拥有专业、持续培养的高素质研发、生产及售后服务团队；

我们有百级工作台，千级无尘车间，自动化生产线及完备的测试实验室；

引进ISO9001质量管理体系标准、ISO14001的环境管理体系标准，并通过RoHS、REACH、MESD等产品认证;

每个摄像头模组都需经历40余道严格定义的生产与检验环节，从来料检验直至最终出货质量控制，以确保无与伦比的可靠性;

产品应用于消费电子、汽车电子、安防监控、工业与机器视觉、医疗健康、新兴智能与交互、特殊与前沿等百余个领域。

Merrillchip Electronics was founded in 2010 and is headquartered in Shenzhen, China.

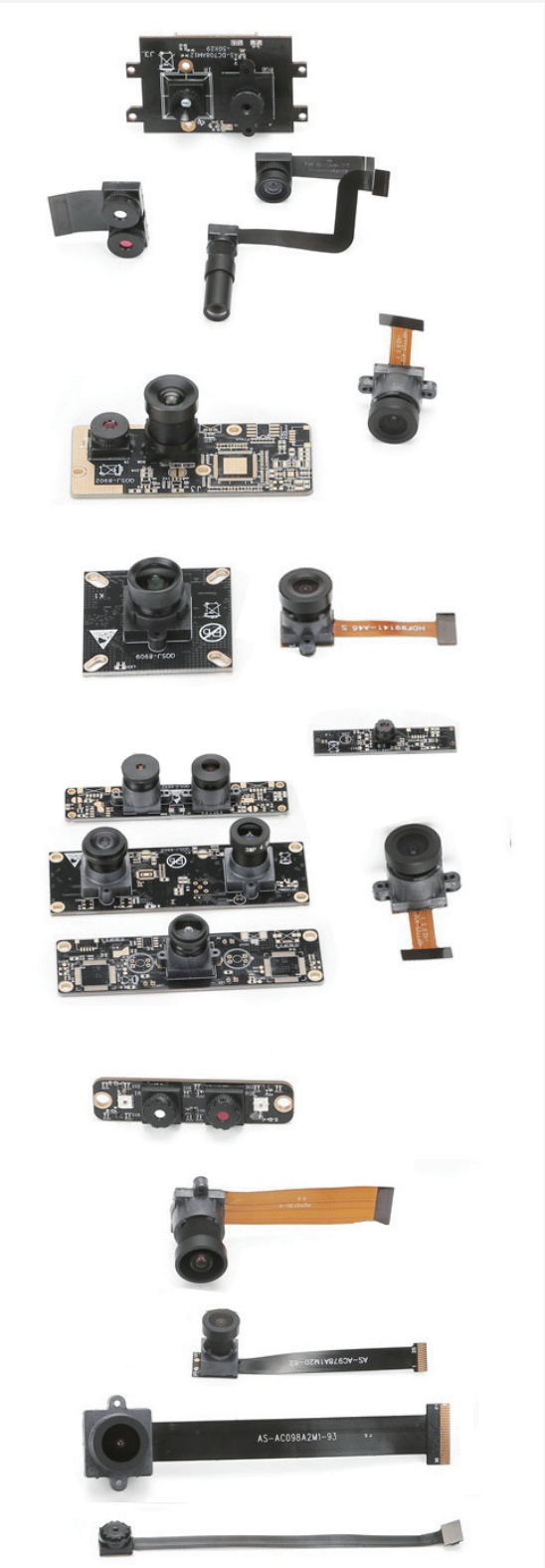
We are a specialized manufacturer focused on the **research, development, and production of CMOS camera modules**.

Our operations are certified to the **ISO 9001 Quality Management** and **ISO 14001 Environmental Management** system standards. Our products also comply with **RoHS, REACH, and MESD** requirements. To date, our solutions have been exported to over **20 countries and regions**, including the United States, Germany, France, Australia, and Italy, earning high recognition across diverse application fields.

Our manufacturing excellence is supported by a **1,00-class workbenches,1000-class dust-free workshop, automated production lines**, and a fully equipped testing laboratory.

Backed by a **professional R&D team** and experienced technical and management personnel, we offer more than just our extensive portfolio of over 10,000 camera module designs. We provide comprehensive **OEM and ODM customization services** to perfectly align with your specific project needs.

手册目录 MANUAL CATALOGUE



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*注：本手册所有产品图片仅供参考，产品参数以规格书为准。（Note: All product photos in this album are for reference only; Product parameters are subject to the specifications）

资质荣誉 专利证书
QUALIFICATION PATENT



- **中国名优产品证书**
  China's Premium Products
- **高新技术企业证书**
  High-Tech Enterprise
- **专精特新中小企业证书**
  Specialized, Refined, Distinctive, Innovative SME
- **ISO9001、ISO14001、QC 080000 认证**
  ISO9001(Quality); ISO14001 (Environment) Certification
- **数十项专利、软著证书**
  Multiple licensed patents
  - 一种安监安防用监控摄像头
    A Security Monitoring Camera
  - 一种高效散热型摄像头
    A Camera with Enhanced Heat Dissipation
  - 一种智能摄像头
    A Smart Camera
  - 一种双目摄像头模组
    A Binocular Camera Module
  - ……





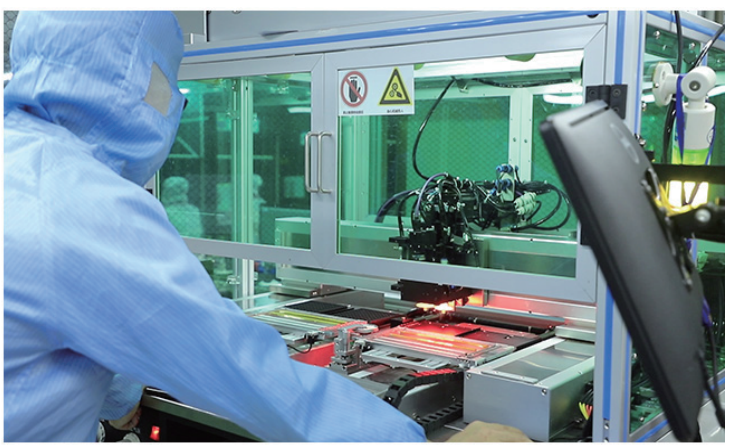
自动化生产 百级工作台
AUTOMATIC PRODUCTION

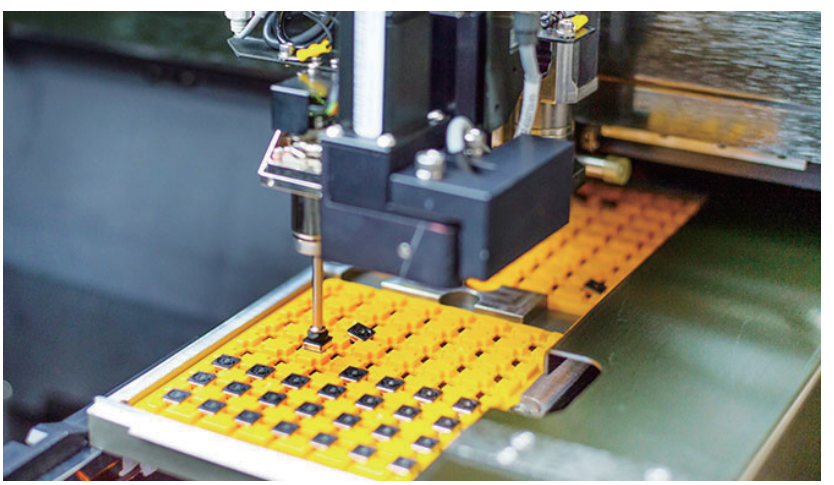
丰富的行业经验，完善的自动化生产设备，月产能可达60-70万颗摄像头

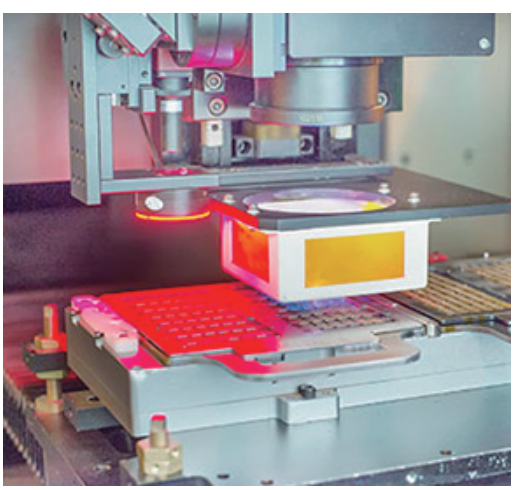
Rich industry experience, complete automatic production equipment, and monthly production capacity of 700000 cameras

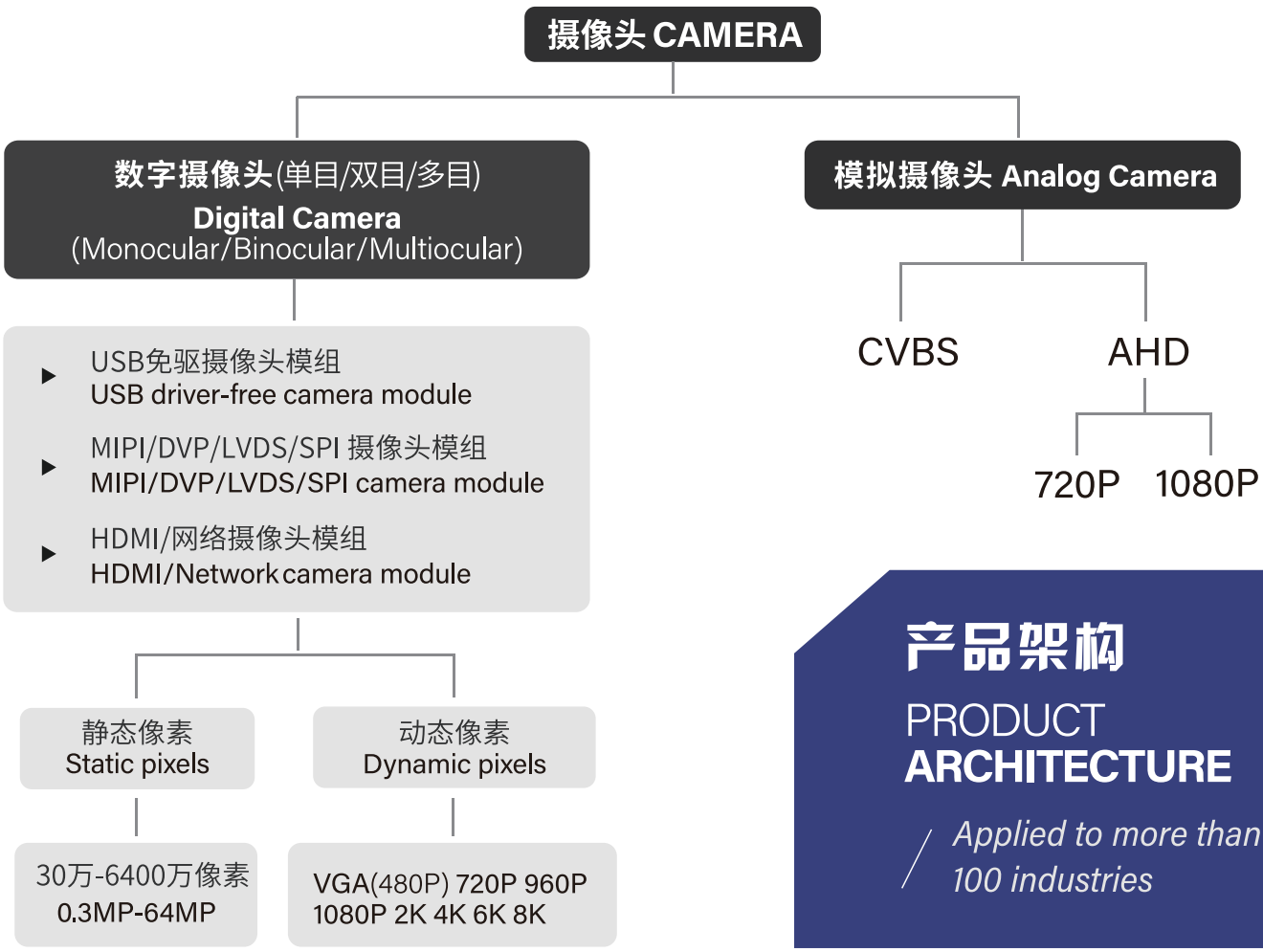








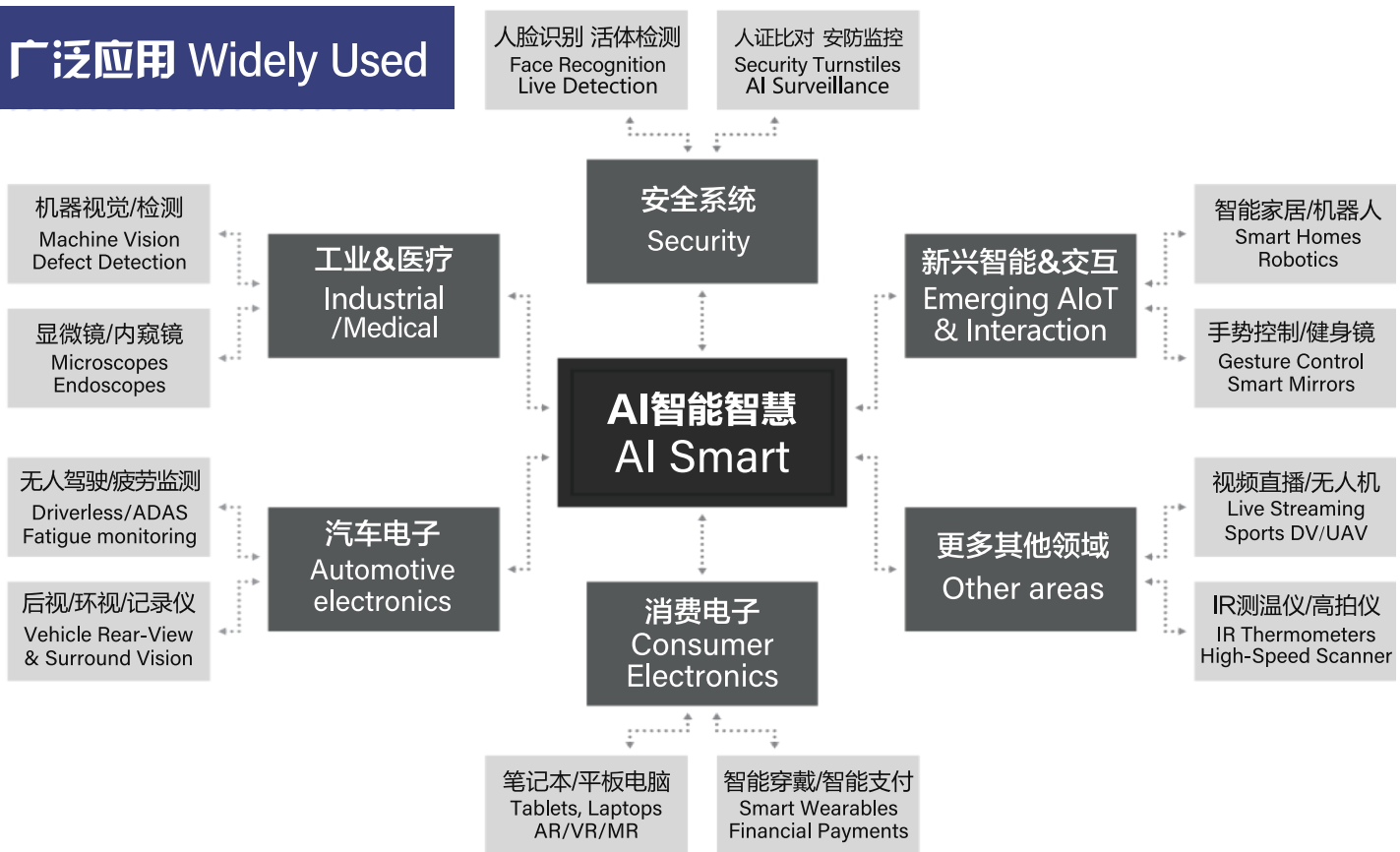




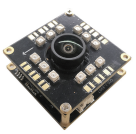
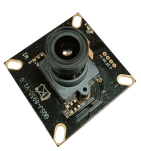
产品架构
PRODUCT ARCHITECTURE

Applied to more than 100 industries

广泛应用 Widely Used



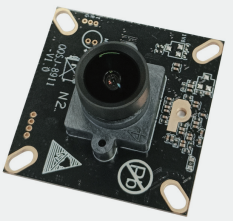
全局快门产品系列 Global Shutter Series

产品图 Product	芯片 Sensor	像素 Pixel	帧率 Frame rate	视场角/畸变 View angle /Distortion	接口 Interface	应用/优势 Applications/Advantages
	1/6″ SC035HGS	0.3MP (640 x 480)	60fps (USB2.0) 180fps (DVP/MIPI /LVDS)	D: 120° H: 97° V: 77° <-10.9%	USB2.0 DVP/MIPI /LVDS	扫码，桌面机器人；扫描笔等 Code scanning; desktop robot , etc 彩色/黑白成像 Color/Mono CMOS
	1/7.5″ PSD030K	0.3MP (640 x 480)	240fps	D: 63° H: 50° V: 38° <1%	DVP/MIPI	工业扫码，点读笔；VR AR等 Code scanning; VR AR , etc 黑白成像 Mono CMOS
	1/7.5″ OV7251/ OV7750	0.3MP (640 x 480)	120fps	D: 72° H: 63.6° V: 41.2° <1.5%	DVP/MIPI /LVDS	扫码，智能扫地机；光流定位等 Smart vacuum cleaner, etc 彩色/黑白成像 Color/Mono CMOS
	1/4″ AR0144/ AR0145	1 MP (1280 x 800)	60fps	D: 120° H: 105° V: 80° <-50%	USB2.0 DVP/MIPI	拍眼球；激光光标追踪；扫码等 Eye-catching; code scanning, etc 彩色/黑白成像 Color/Mono CMOS
	1/4″ OV9281	1 MP (1280 x 800)	120fps	D: 74° H: 67° V: 43° <-1.0%	TYPE_C /USB2.0 DVP/MIPI	掌静脉识别；扫码 避障 悬浮等 Palm vein recognition, etc. 黑白成像 Mono CMOS
	1/2.7″ SC130GS	1.3MP (1280 x 1044)	240fps	D: 98° H: 89° V: 57° <-2.0%	DVP/MIPI /LVDS	拍眼球；激光光标追踪；扫码等 Eye-catching; code scanning, etc 彩色/黑白成像 Color/Mono CMOS
	1/4″ SC132GS	1.3MP (1080 x 1200)	120fps	D: 136.8° H: 94.2° V: 108.6° <-5.16%	DVP/MIPI /LVDS	扫地机；售货机；机器人等 Vending machine; robot, etc 彩色/黑白成像 Color/Mono CMOS
	1/2.9″ OG02B10	2 MP (1600 x 1300)	60fps	D: 97.4° H: 82.3° V: 44.7° <-10%	DVP/MIPI	VR AR；无人机；3D成像等 VR AR; Drones; 3D Imaging. etc. 彩色成像 Color CMOS
	1/2.6″ AR0234/ AR0235	2 MP (1920 x 1200)	90fps (USB2.0) 120fps (DVP/MIPI)	D: 100° H: 91° V: 59.4° <0.2%	USB2.0 DVP/MIPI	无人机；机器视觉；工业自动化等 VR AR; Drone; machine vision, etc. 彩色/黑白成像 Color/Mono CMOS
	1/2.53″ OG05B10	5 MP (2592 x 1944)	60fps	D: 82° H: 70° V: 55° <-0.6%	DVP/MIPI	工业缺陷检测；无人机航拍等 Industrial defect detection, etc. 彩色成像 Color CMOS
	2/3″ IMX566	8 MP (2840 x 2840)	43fps-214fps	D: 83.8° H: 67.25° V: 50.5° <-1.58%	MIPI	机器视觉；ITS智能交通系统等 FA Cameras, ITS Cameras, etc 彩色/黑白成像 Color/Mono CMOS

HDR宽动态产品系列 HDR/WDR Series



传感器 Sensor: 1/2.92" Cmos
像素 Pixel: 2MP(1920 x 1080) 25fps
动态范围 Dynamic Range: 120dB
视场角 View angle: 120°
畸变 Distortion: <35%
接口 Interface: USB2.0/AHD
应用 Application: 逆光监控; 强光车牌识别
Backlight monitoring; Face recognition.etc



传感器 Sensor: 1/2.9" GC2093
像素 Pixel: 2MP(1920 x 1080) 30fps/60fps
动态范围 Dynamic Range: 105dB
视场角 View angle: D:146° H:119° V:62°
畸变 Distortion: <19%
接口 Interface: USB2.0
应用 Application: 人脸识别 强光车牌识别
High-glare number plate recognition.etc



传感器 Sensor: 1/2.5" PS5520
像素 Pixel: 5MP(2592 x 1944) 30fps
动态范围 Dynamic Range: 85dB
视场角 View angle: 100°
畸变 Distortion: <-0.32%
接口 Interface: USB2.0
应用 Application: 逆光人脸识别 户外监控
Facial recognition; Outdoor surveillance.etc

低照度产品系列 Low Light Series



传感器 Sensor: 1/4" ASX340CS(MT9V139)
像素 Pixel: 0.4MP(750 x 576) 60 fields/sec
像素尺寸 Pixel Size: 5.6μm*5.6μm
视场角 View angle: D:110° H:88° V:55°
畸变 Distortion: <7.5%
接口 Interface: AV
应用 Application: 可视门铃; 汽车后视环视
Video doorbells; pipe detection.etc



传感器 Sensor: 1/3" GC0403
像素 Pixel: 0.3MP(640 x 480) 30fps
像素尺寸 Pixel Size: 6.25μm*6.25μm
视场角 View angle: D:73° H:61° V:47°
畸变 Distortion: <1%
接口 Interface: USB2.0
应用 Application: 家庭监控; 行车记录仪
Home surveillance; dashcams, etc.



传感器 Sensor: 1/4" OV7725
像素 Pixel: 0.3MP(640 x 480) 30fps
像素尺寸 Pixel Size: 6.0μm*6.0μm
视场角 View angle: D:110° H:88° V:55°
畸变 Distortion: <7.5%
接口 Interface: USB2.0
应用 Application: 行车记录仪; 执法仪等
Dashcams; body-worn cameras, etc.

USB麦克风产品系列 USB Microphone Series



指向 Directivity: 全向 Omnidirectiona
频响范围 Frequency Range: 100-16000Hz
输入电压 Input Voltage: 5V+5%
接口 Connectivity: USB2.0
拾音范围 Sound Pick-up Range: Max 10ft/3m; Recommend Within 6.5ft/2m
尺寸 Dimension: D70mm*H15mm
应用 Application: 在线会议/聊天/游戏
Online meeting; video/audio chat.etc



指向 Directivity: 全向 Omnidirectiona
频响范围 Frequency Range: 100-16000Hz
输入电压 Input Voltage: 5V+5%
接口 Connectivity: USB2.0 & AUX3.5
拾音范围 Sound Pick-up Range:Max 10ft/3m; Recommend Within 6.5ft/2m
尺寸 Dimension: D80mm*H13mm
应用 Application: 在线会议/聊天/游戏
Online meeting; video/audio chat.etc

星光/黑光全彩夜视产品系列 Colour Night Vision Series



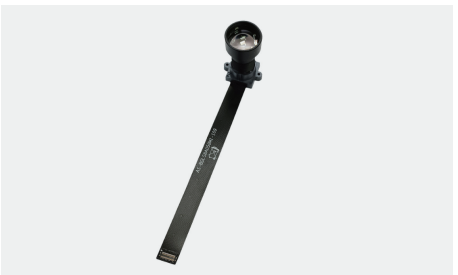
传感器 Sensor: 1/1.8" IMX464
像素 Pixel: 4MP(2688 x 1520) 90fps
视场角 View angle: D:100.0° H:84.6° V:45.9°
畸变 Distortion: <-10.4%
接口 Interface : MIPI
应用 Application: 工业监控 行车记录仪
Surveillance; Dashcams, etc.



传感器 Sensor: 1/2.8" IMX675
像素 Pixel: 5MP(2592 x 1944) 60fps
视场角 View angle: D:125.1° H:105.2° V:55.5°
畸变 Distortion: <-15.8%
接口 Interface: MIPI/LVDS
应用 Application: 监控 行车记录仪 执法仪
Surveillance; Body-Worn Cameras, etc.



传感器 Sensor: 1/1.8" IMX678
像素 Pixel: 8MP(3840 x 2160) 60fps
视场角 View angle: D:103° H:86° V:46°
畸变 Distortion: <-15.3%
接口 Interface: USB2.0 or MIPI
应用 Application: 工业监控 驾驶员行为监测
Retail In-store Cameras, Bodycams, etc.



传感器 Sensor: 1/1.8" SC850SL
像素 Pixel: 8MP(3840 x 2160) 60fps
视场角 View angle: D:64.1° H:55.2° V:30.3°
畸变 Distortion: <-20%
接口 Interface: MIPI
应用 Application: 户外电网监测 工业监控
Outdoor power grid; monitoring, etc.



传感器 Sensor: 1/1.25" OS08B10
像素 Pixel: 8MP(3840 x 2160) 30x3fps
视场角 View angle: D:103° H:86° V:46°
畸变 Distortion: <-36%
接口 Interface: MIPI/LVDS
应用 Application: 夜视仪 打猎相机 监控
Night vision devices; Hunting cameras, etc.



传感器 Sensor: 1/1.2" IMX585
像素 Pixel: 8MP(3840 x 2160) 60fps/90fps
视场角 View angle: D:103° H:86° V:46°
畸变 Distortion: <-36%
接口 Interface: MIPI
应用 Application: 打猎相机 灾害监测警报
Hunting cameras; Disaster Monitoring, etc.

RGB-IR产品系列 RGB-IR Series

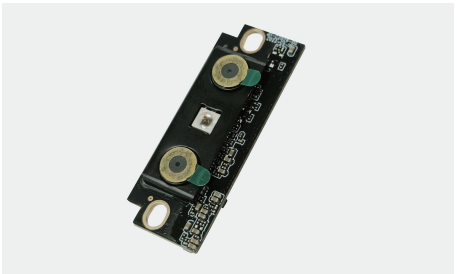


传感器 Sensor: 1/4" OV2736
像素 Pixel: 2MP(1920 x 1080)
帧率 Frame rate: 60fps
视场角 View angle: D:82° H:66° V:38°
畸变 Distortion: <7%
接口 Interface: MIPI/DVP
应用 Application: 工业监控 记录仪
Near infrared enhancement.etc;



传感器 Sensor: 1/2.7" AR0237
像素 Pixel: 2.1 MP(1928 x 1088)
帧率 Frame rate: 60fps
视场角 View angle: D:91° H:82.6° V:52.1°
畸变 Distortion: <-0.5%
接口 Interface: MIPI/HiSPi
应用 Application: HDR监控识别 执法仪
High Dynamic Range Imaging.etc

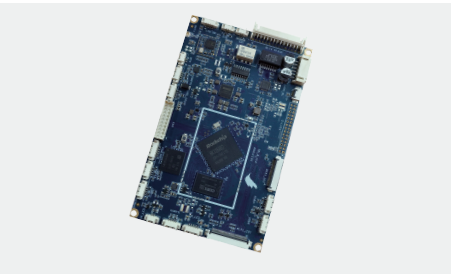
AI算力产品系列 Integrated AI Processor Series



传感器 Sensor: 1/5" Cmos
像素 Pixel: 2MP(1600x1200) RGB+IR
帧率 Frame rate: 120fps
视场角View angle: RGB(D:84°) IR(D:84°)
接口 Interface: Mipi
特性 Features: 活体人脸识别算法 双向MIC
Live facial recognition algorithm;
应用 Applications: 可视门铃门禁 安检闸机
Two-Way Intercom; Smart door locks.etc.



像素 Pixel: 0.3MP(640 x 480)
条码格式 Support barcode formats: 1D&2D
读取精度 Reading accuracy: 1D:3mil 2D:mil
视场角 View angle: D:42° H:32°
读取景深 Reading Depth of Field:
QR(15mil):30-220mm
支付码QR Payment Codes:80-550mm
应用 Applications: 扫码支付 快递扫描
Parcel Scanning; Smart payments.etc.



CPU: Quad-core 64-bit Cortex-A55
GPU: ARM G52 2EE
内存 Memory: 2GB (support 4GB, 8GB)
内置存储器 Internal Storage: EMMC 16GB
网络 Network: Ethernet/Wifi/Bluetooth.etc
系统 System: Android 11 OS & Debian 10 OS
接口 Interface: USB3.0*2;USB sockets*2;
TTL serial sockets*2; HDMI*1 .etc

光学变焦产品系列 Optical Zoom Series



传感器 Sensor: 1/2.8" IMX415
像素 Pixel: 8MP(3840x2160)
变焦倍数 Zoom ratio: 10x

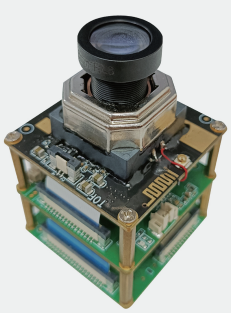


传感器 Sensor: 1/2.8" IMX307
像素 Pixel: 2MP(1920x1280)
变焦倍数 Zoom ratio: 20x

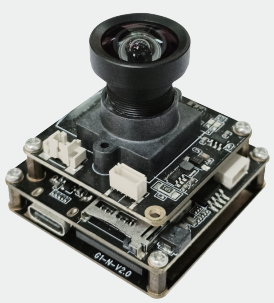


传感器 Sensor: 1/2.8" IMX335
像素 Pixel: 5MP(2592x1944)
变焦倍数 Zoom ratio: 20x

HDMI&网络产品系列 HDMI & Network Series



传感器 Sensor: 1/2.8" Cmos
像素 Pixel: 8MP(3840 x 2160)
帧率 Frame rate: 30fps
接口 Interface: USB3.0 & HDMI
应用 Application:工业、家庭监控
Intelligent identification.etc



网络 Network: 2.5G/5G Wifi
像素 Pixel: 12MP
帧率 Frame rate: 30fps
接口 Interface: Type-C USB 5V
应用 Application: 工业、家庭监控
Mini DV; Home surveillance.etc

单片机产品系列 Single Chip Microcomputer Series

产品图 Product	芯片 Sensor	像素 Pixel	帧率 Frame rate	视场角/畸变 View angle /Distortion	接口 Interface	应用/优势 Applications/Advantages
	1/6.5″ GC0308	0.3MP (640 x 480)	30fps	D: 92.3° H: 77° V: 57° <-10.9%	DVP	扫码，掌静脉识别；扫译笔等 Code scanning; Finger vein recognition; AI Dictionary Pens, etc
	1/5″ OV7740	0.3MP (640 x 480)	30fps	D: 138° H: 100° V: 73° <12.8%	DVP	个人电脑多媒体;游戏;安全摄像头等 Computer multimedia; Game system; Beat meter, etc
	1/4″ OV7725	0.3 MP (640x480)	60fps	D: 110° H: 88° V: 55° <7.5%	DVP	导盲拐杖；停车指引摄像头等 Blind people guide crutches; Parking guidance camera, etc
	1/4″ BF3005	0.3 MP 720x576 (CCIR) 640x480 (YUV)	60fps	D: 160° H: 120° V: 100° <8.5%	DVP	安防系统；掌上电脑；智能玩具等 Security systems;Tablets; Video telephony; Toys ; MP4, etc
	1/6.5″ SC030iot	0.3MP (640 x 480)	30fps	45° <1.5%(TV)	DVP/MIPI	扫码；桌面机器人；点读笔等 Code scanning; desktop robot; scanning pen, etc
	1/4″ NT99141	1 MP (1280 x 720)	30fps	D: 116° H: 97° V: 56° <7.5%	DVP	楼宇门禁；扫码；安检闸机等 Building access control; QR scanners visual telephone; Security gate, etc
	1/4.2″ SC101iot	1 MP (1280 x 720)	30fps	D: 120° H: 97° V: 77° <10.9%	DVP	行车记录仪；智能家居；工业内窥等 Dashcams; Smart home devices; Industrial endoscopes, etc.
	1/5″ GC2145	2 MP (1600 x 1200)	30fps	D: 80° H: 63° V: 47° <5.0%	DVP/MIPI	平板电脑；广告机；人脸识别等 Tablet PC; Face recognition, etc
	1/4″ OV2640	2 MP (1600 x 1200)	15fps	D: 62° H: 52° V: 40° <1.0%	DVP	拍水表；试纸识别；编程玩具车等 Low illumination photography; Programming a toy car, etc
	1/3″ SC2336	2 MP (1920 x 1080)	30fps	D: 70° H: 63.6° V: 38° <-0.1%	DVP/MIPI	拍水表；试纸识别；编程玩具车等 Low illumination photography; Programming a toy car, etc
	1/4″ OV5640 /OV5645	5 MP (2592x1944)	15fps	D: 68.7° H: 58.1° V: 45° <1.0%	DVP/MIPI	人脸识别；AI识别电子秤；监控等 Face recognition; AI Electronics Object recognition; Surveillance, etc

近红外增强产品系列 NIR(Near-Infrared Enhancement)Series



传感器 Sensor: 1/1.79" OS04A10
像素 Pixel: 4MP(2688 x 1520)
帧率 Frame rate: 30x3 fps@1520p
视场角 View angle:D:93° H:86° V:55°
畸变 Distortion: <-1.2%
接口 Interface: MIPI
应用 Application: 运动DV 安防监控
Motion camera; Safety camera.etc;



传感器 Sensor: 1/2.7" OS05A20
像素 Pixel: 5MP(2688 x 1944)
帧率 Frame rate: 60fps
视场角 View angle: D:142° H:112° V:57°
畸变 Distortion: <-19%
接口 Interface: MIPI/LVDS
应用 Application: 行车记录仪 执法仪
Tachograph; Body-worn camera.etc

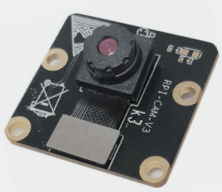


传感器 Sensor: 1/2.9" AR0830
像素 Pixel: 8MP(3840 x 2160)
帧率 Frame rate: 60fp/30fps
视场角 View angle: D:93° H:86° V:55°
畸变 Distortion: <-1.2%
接口 Interface: MIPI
应用 Application: 直播 佩戴式记录仪
Webcams, Bodycams, Robot .etc.

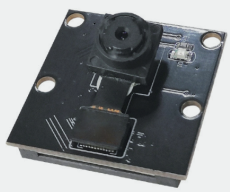


传感器 Sensor: 1/2.7" SC830AI
像素 Pixel: 8MP(3840 x 2160)
帧率 Frame rate: 30fps
视场角 View angle: D:90° H:82° V:53°
畸变 Distortion: <0.5%
接口 Interface: MIPI/LVDS
应用 Application: PC直播 视频会议
Webcam; video conferencing.etc

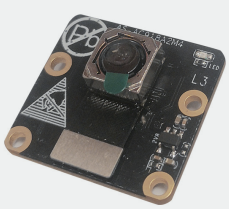
树莓派产品系列 Raspberry Pi Series



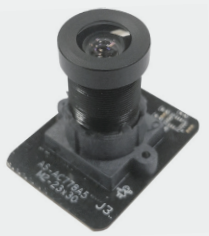
传感器 Sensor: 1/4" OV9281
像素 Pixel: 1MP (1280 x 800)
帧率 Frame rate: 120fps
视场角 View angle: D:124° H:97° V:72°
畸变 Distortion: <7.5%
接口 Interface: MIPI
应用 Application: 智能快递柜 机器人
Express cabinet; robot.etc;



传感器 Sensor: 1/4" OV5647
像素 Pixel: 5MP(2592 x 1944)
帧率 Frame rate: 15fps
视场角 View angle: D:68.7° H:58.1° V:45°
畸变 Distortion: <1.0%
接口 Interface: MIPI
应用 Application: 医疗设备 人脸识别
Medical equipment; monitoring.etc

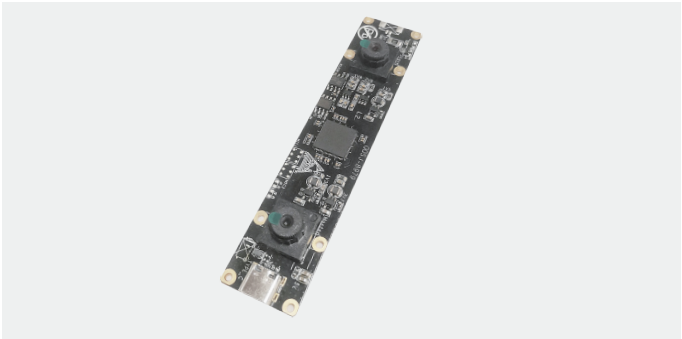


传感器 Sensor: 1/4" IMX219
像素 Pixel: 8MP(3280 x 2464)
帧率 Frame rate: 30fps
视场角 View angle: D:72° H:60.2° V:46.9°
畸变 Distortion: <1.5%
接口 Interface: MIPI
应用 Application: 智能终端 高拍仪
Smart terminal,high-speed scanner.etc;



传感器 Sensor: 1/2.3" IMX477
像素 Pixel: 12MP(4056 x 3040)
帧率 Frame rate: 60fps-240fps
视场角 View angle: D:135° H:106° V:78°
畸变 Distortion: <-12.5%
接口 Interface: MIPI
应用 Application: 多镜头360°全景监控;
Panoramic surveillance; drones, etc.

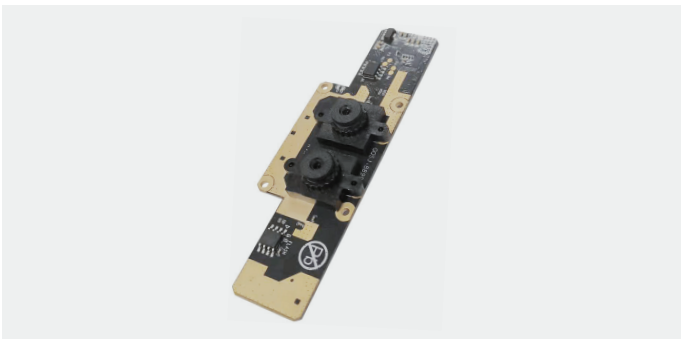
USB双目产品系列 Binocular USB Series



传感器 Sensor: 1/2.9"OS02G10　像素 Pixel: 4MP(3840x1080)
帧率 Frame rate: 30fps　接口 Interface: Type-C USB2.0
视场角 View angle: D:70.6°　H:63.6°　V:38°
畸变 Distortion: <-0.1%
应用 Application: 视觉惯性里程计(VIO)、机器人导航、AR/VR
Visual Inertial Odometry (VIO), robotic navigation, AR/VR, etc
特性 Features: 双目帧同步 Dual frame synchronization



传感器 Sensor: 1/2.7" AR0230　像素 Pixel: 2MP(1920 x 1080)
帧率 Frame rate: 30fps　接口 Interface: USB2.0
视场角 View angle: D:96°　H:86°　V:56°（RGB+IR)
畸变 Distortion: <0.5% (RGB+IR)
应用 Application: 活体检测、夜间监控、人脸识别防伪等
Night vision surveillance, Liveness facial recognition.etc.
特性 Features: HDR宽动态; 灯板可选。HDR, IR-LED optional.



传感器 Sensor: 1/2.7"AR0230+OV2710　接口 Interface: USB2.0
像素 Pixel: 2MP(1920x1080)　帧率 Frame rate: 30fps
视场角 View angle: D:96°　H:86°　V:56°（RGB+IR)
畸变 Distortion: <0.5% (RGB+IR)
应用 Application: 金融支付/门禁系统；红外热成像；疲劳检测等
Financial payment/access control; infrared thermal imaging, etc.
特性 Features: HDR; HUB; 灯板可选。HDR, HUB, IR-LED optional.



传感器 Sensor: IMX179(1/3.2")+GC2053(1/2.9")
像素 Pixel: 8MP(3264 x 2448) & 2MP(1920 x 1080)
帧率 Frame rate: 30fps　接口 Interface: USB2.0
视场角 View angle: AF:75°　FF:70°　畸变 Distortion: <-0.1%
应用 Application: 驿站快递出库仪；高拍仪；楼宇门禁等
Parcel Dispatch Systems; 3D facial recognition terminal, etc
特性 Features: 分体式灵活安装 Split-type Flexible Installation

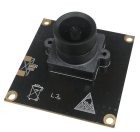


传感器 Sensor: 1/2.8" IMX415　像素 Pixel: 8MP(3840X2160)
帧率 Frame rate: 30fps　接口 Interface: USB2.0
视场角 View angle: D:93.8°　H:85.8°　V:55.8°
畸变 Distortion: <0.5%
应用 Application: 3D环境感知场景（如机器人、自动驾驶）
3D environmental perception (e.g. robotics, autonomous driving)
特性 Features: 彩色双目,灯板可选。Dual 4K color, IR-LED optional.

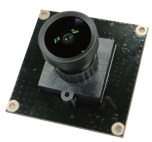
厂家更多推荐 Manufacturer's recommendation(0.3MP-2MP)

产品图 Product	芯片 Sensor	像素 Pixel	帧率 Frame rate	视场角/畸变 View angle /Distortion	接口 Interface	应用/优势 Applications/Advantages
	1/4″ ASX340CS	0.3MP (640 x 480)	60fps	D: 58° H: 46° V: 35° <-1.5%	DVP/AV	可视门铃；管道探测；汽车后视等 Video doorbell/access control; Pipe detection; Car rear-view.etc.
	1/4″ BF3005	720x576 (CCIR) 640x480 (YUV)	60fps	D: 58° H: 46° V: 35° <-1.5%	DVP	微型投影仪；扫码；拍照识别等 Micro projector; Code scanning; Face recognition, etc
	1/6.5″ SC030IOT	0.3MP (640 x 480)	30fps	D: 72° H: 63.6° V: 41.2° <1.5%	MIPI/DVP	老人机；门禁；扫码；光流定位等 Access control; QR code scanning; optical flow positioning, etc.
	1/4″ PC7080D	0.3MP (640 x 480)	60fps	D: 116° H: 97° V: 56° <7.5%	MIPI	微型投影仪；扫码；拍照识别等 Micro projector; Code scanning; Face recognition, etc
	1/2.9″ IMX297	0.4MP (720 x 540)	120fps	D: 92° H: 84° V: 54° <0.4%	MIPI	拍眼球；激光光标追踪；扫码等 Eye-catching; code scanning, etc 全局曝光 Global Shutter Sensor
	1/4″ OV9712	1 MP (1280 x 720)	30fps	D: 124° H: 97° V: 72° <7.5%	DVP	试剂检测；监控；视频电话等 Reagent detection, monitoring, access control, video phone, etc
	1/2.7″ PS5268	2 MP (1920 x 1080)	30fps	D: 97° H: 87.8° V: 57.2° <0.5%	USB2.0	户外逆光监控；强光车牌识别等 Outdoor surveillance;Robotics; Licence plate recognition, etc. 宽动态HDR (105dB dynamic range)
	1/2.9″ OV2718	2 MP (1920 x 1080)	30fps	D: 70.6° H: 63.6° V: 38° <-0.1%	MIPI	人脸识别； 监控；行车记录仪等 Facial Recognition; Security Surveillance; Dashcams, etc.
	1/2.9″ OG02B10	2 MP (1600 x 1300)	60fps	D: 112° H: 93° V: 76° <7%	MIPI/LVDS	VRAR；无人机；扫码；自动化等 VRAR, Drone, Barcode Scanning Machine Vision, 3D imaging, etc. 全局曝光 Global Shutter Sensor
	1/2.9″ GC2053	2 MP (1920 x 1080)	30fps	D: 70.6° H: 63.6° V: 38° <-0.1%	DVP/MIPI	医美设备；电梯监控；宠物喂食器等 Beauty devices; lift monitoring; pet feeders; Dashcams, etc.
	1/4″ AR0246	2 MP (1920 x 1080)	60fps	D: 70.6° H: 63.6° V: 38° <-0.1%	MIPI	楼宇门禁；人脸识别；行车记录仪等 Video intercom access control; facial recognition; dashcams,etc. NIR(Near-infrared enhancement)

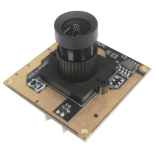
厂家更多推荐 Manufacturer's recommendation(2MP-4MP)

产品图 Product	芯片 Sensor	像素 Pixel	帧率 Frame rate	视场角/畸变 View angle /Distortion	接口 Interface	应用/优势 Applications/Advantages
	1/2.9″ IMX273	2 MP (1440 x 1080)	276fps	D: 86° H: 78° V: 49° <0.4%	MIPI	快速抓拍；掌静脉/指静脉识别等 Fast capture; scanning code; palmar vein recognition, etc 全局曝光 Global Shutter Sensor
	1/2.8″ IMX462	2 MP (1920 x 1080)	120fps	D: 64.1° H: 55.2° V: 30.3° <-15.3%	MIPI	安防监控；行车记录仪；执法仪等 Security systems; dashcams; body-worn cameras, etc.
	1/2.8″ IMX662	2 MP (1920 x 1080)	60fps	D: 93.6° H: 85° V: 54° <-3%	MIPI	安防监控；行车记录仪；执法仪等 Security systems; dashcams; body-worn cameras, etc.
	1/1.2″ IMX482	2 MP (1920 x 1080)	90fps	D: 125.3° H: 102.1° V: 52.9° <-15.9%	DVP/MIPI	人脸识别；智能停车场；母婴监护等 Facial recognition; smart car parks; dashcams; baby monitors, etc.
	1/3″ SC2336	2 MP (1920 x 1080)	30fps	D: 70.6° H: 63.3° V: 38° <-0.1%	DVP/MIPI	人脸识别；智能停车场；母婴监护等 Facial recognition; smart car parks; dashcams; baby monitors, etc.
	1/2.8″ SC230AI	2 MP (1920 x 1080)	60fps	D: 92° H: 84° V: 54° <0.4%	DVP/MIPI	智能家居；扫码；人脸识别等 Smart home devices; QR scanning; surveillance, facial recognition, etc.
	1/3.2″ MI2010/ MT9D111	2MP (1600 x 1200)	30fps	D: 89° H: 81° V: 21° <0.2%	USB2.0	人脸识别；AI识别电子秤等 Facial recognition; smart home, AI-enabled electronic scales, etc.
	1/3″ AR0330	3 MP (2330 x 1596)	30fps	D: 125° H: 101° <-46.0%	DVP/MIPI	人脸识别；AI识别电子秤等 Facial recognition; smart home, AI-enabled electronic scales, etc.
	1/2.8″ SC3336	3MP (2304 x 1296)	30fps	D: 63° H: 50° V: 38° <-3.37%	MIPI	人脸识别；监控；PC直播摄像头等 Facial recognition;security camera; webcam; smart home, etc
	1/3″ OV4689	4MP (2588 x 1520)	30fps	D: 141° H: 115° V: 59° <19%	USB3.0	车载执法仪；监控；行车记录仪等 Vehicle-mounted law enforcement; dashcams; security surveillance, etc.
	1/3″ GC4663	4MP (2560 x 1440)	60fps	D: 97.3° H: 82.5° V: 45° <-30.0%	MIPI	执法仪；运动DV；行车记录仪等 Wearable law enforcement; dashcams;Action cameras, etc.

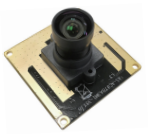
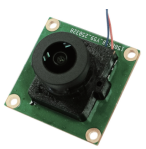
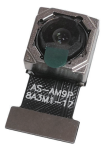
厂家更多推荐 Manufacturer's recommendation(4MP-5MP)

产品图 Product	芯片 Sensor	像素 Pixel	帧率 Frame rate	视场角/畸变 View angle /Distortion	接口 Interface	应用/优势 Applications/Advantages
	1/3″ GC4653	4MP (2560 x 1440)	30fps	D: 72° H: 64.4° V: 39.5° <2.0%	MIPI/LVDS	执法仪；运动DV；行车记录仪等 Wearable law enforcement; dashcams;Action cameras, etc.
	1/3″ OS04C10	4MP (2688 x 1520)	60fps-240fps	D: 99.5° H: 86.7° V: 48.8° <-25.6%	DVP/MIPI /LVDS	执法仪；运动DV；行车记录仪等 Wearable law enforcement; dashcams;Action cameras, etc.
	1/1.8″ SC450AI	4MP (2688 x 1520)	60fps	D: 99.5° H: 86.7° V: 48.8° <-25.6%	MIPI	执法仪；工业监控；行车记录仪等 Wearable law enforcement; DVR; industrial surveillance, etc. NIR(Near-infrared enhancement)
	1/1.8″ IMX464	4MP (2688 x 1520)	90fps	D: 99.5° H: 86.7° V: 48.8° <-25.6%	MIPI	执法仪；工业监控；行车记录仪等 Wearable law enforcement; DVR; industrial surveillance, etc.
	1/1.8″ IMX664	4MP (2688 x 1520)	120fps	D: 134.1° H: 109.9° V: 56.7° <-17.83%	MIPI	执法仪；工业监控；行车记录仪等 Wearable law enforcement; DVR; industrial surveillance, etc.
	1/4″ OV5640	5MP (2592 x 1944)	15fps	D: 166° H: 126° V: 88.9° <-85.32%	MIPI	智能健身镜；收银台；无人货架等 Smart fitness mirrors; checkout counters; unmanned shelves, etc.
	1/4″ OV5645	5MP (2592 x 1944)	15fps	D: 166° H: 126° V: 88.9° <-85.32%	USB2.0	笔记本平板电脑；自助终端等 Laptops; tablets; self-service terminals; all-in-one units, etc.
	1/2.7″ SC530AI	5MP (2880 x 1620)	60fps	D: 93.8° H: 85.8° V: 55.8° <0.5%	MIPI	监控；人脸识别、车牌识别等 Monitoring; face recognition license plate shooting, etc
	1/4.2″ AR0544	5MP (2592 x 1944)	60fps	D: 93.8° H: 85.8° V: 55.8° <0.5%	MIPI	智能家居；口袋相机、安防监控等 Intelligent home; portable camera; surveillance; video conference, etc
	1/2.7″ IMX376/ IMX476	5MP (2592 x 1944)	30fps	D: 93.8° H: 85.8° V: 55.8° <0.5%	USB2.0	笔记本平板电脑；自助终端等 Laptops; tablets; self-service terminals; all-in-one units, etc.
	1/2.8″ IMX675	5MP (2608 X 1964)	60fps	D: 93.8° H: 85.8° V: 55.8° <0.5%	MIPI	智能家居；口袋相机、安防监控等 Intelligent home; portable camera; surveillance; video conference, etc

厂家更多推荐 Manufacturer's recommendation(5MP-12MP)

产品图 Product	芯片 Sensor	像素 Pixel	帧率 Frame rate	视场角/畸变 View angle /Distortion	接口 Interface	应用/优势 Applications/Advantages
	1/2.5″ AR0521/ AR0522	5MP (2592 x 1944)	60fps	D: 144° H: 60° V: 116° H<-11.6% V<-43%	MIPI	监控；人脸识别、车牌识别等 Monitoring; face recognition license plate shooting, etc
	1/2.8″ IMX335	5MP (2592 x 1944)	30fps	D: 72.3° H: 65.4° V: 39.3° <-0.1%	USB2.0	执法仪；菜品识别；无人机图传等 ID/Document scanners; Robotics; drone image transmission, etc
	1/2.78″ IMX376	5MP (2592 x 1936)	30fps	D: 117° H: 97° V: 79° <1.0%	USB2.0	笔记本；平板电脑；自助终端等 Laptops; tablets; self-service terminals; all-in-one units, etc.
	1/1.8″ AR0822/ AR0823	8MP (3840 x 2160)	30fps	D: 75° H: 63° V: 49° <1.5%	MIPI	工业级监控；工业检测、自动化等 Industrial monitoring; Industrial testing equipment, etc
	1/1.2″ IMX585	8MP (3264 x 2448)	60fps	D: 125.3° H: 102.1° V: 52.9° <-15.9%	MIPI	无人机；图传；美容检测仪等 UAV; Image transmission; Altimeter; Beauty instrument, etc
	1/3.2″ IMX179	8MP (3264 x 2448)	15fps	D: 75° H: 63° V: 49° <1.5%	USB2.0	平板；笔记本；高拍仪；广告机等 Tablet PC; Laptops; high-speed scanner;advertising displays, etc
	1/2.8″ IMX415	8MP (3840 x 2160)	30fps	D: 90° H: 82° V: 53° <0.5%	USB2.0	视频会议；无人超市；巡检设备等 Videoconferencing;AI Supermarket; Patrol inspection machine, etc
	1/1.8″ IMX334	8MP (3840 x 2160)	30fps	D: 93° H: 86° V: 55° <-1.2%	USB2.0	视频会议；网课教学；PC直播等 Videoconference; online teaching; Computer webcams, etc
	1/1.8″ IMX678	8MP (3840 x 2160)	60fps	D: 110.8° H: 93.1° V: 49.6° <-12.7%	MIPI	视频会议；无人机；执法仪等 Videoconference;Drones; law enforcement apparatus, etc
	1/3″ IMX258	11MP (3840 x 2880)	15fps	D: 75° H: 63° V: 49.1° <1.5%	USB2.0	高拍仪；笔记本 平板；一体机等 ID/document scanning; Laptops; All-in-one advertising displays, etc
	1/2.3″ IMX377	12MP (4032x 3024)	15fps	D: 90° H: 82° V: 53° <0.5%	USB2.0	视频会议；机器人；智慧医疗等 Videoconferencing; Robots; Smart healthcare/agriculture, etc.

厂家更多推荐 Manufacturer's recommendation(12MP-48MP)

产品图 Product	芯片 Sensor	像素 Pixel	帧率 Frame rate	视场角/畸变 View angle /Distortion	接口 Interface	应用/优势 Applications/Advantages
	1/2.3″ IMX577	12MP (4056 x 3040)	40fps	D: 56° H: 45° V: 32° <-5%	MIPI	安防监控；FA摄像机；执法仪等 Intelligent monitoring; FA camera Body-worn cameras; Sport DV, etc
	1/2.3″ IMX378	12MP (4056 x 3040)	60fps	D: 120° H: 96° V: 73.8° <-14.2%	MIPI	笔记本 平板；机器视觉；无人机等 Tablet PC; Laptops;machine vision Drones; high-speed scanner, etc
	1/3.06″ OV13850	13MP (4224 x 3136)	30fps	D: 75° H: 63° V: 49.1° <1.5%	MIPI	平板电脑；美容检测仪；高拍仪等 Tablet PC; cosmetic instrument high-speed scanner, etc
	1/2.3″ IMX206	16MP (4768 x 3516)	12fps	D: 147.8° H: 114.6° V: 84.3° H<-20.3% V<-38%	LVDS	精准农业；平板电脑；无人机等 Precision agriculture; Tablet PC UAV image transmission, etc
	1/2.8″ IMX398	16MP (4656X 3496)	30fps	D: 78.1° H: 66.1° V: 52° <0.5%	MIPI	笔记本 平板；机器视觉；无人机等 Tablet PC; Laptops;machine vision Drones; high-speed scanner, etc
	1/3.06″ OV16880	16MP (4672 X 3504)	30fps	D: 75° H: 63.1° V: 49.1° <1.5%	SCCB /MIPI	平板电脑；美容检测仪；高拍仪等 Tablet PC; cosmetic instrument high-speed scanner, etc
	1/3″ S5K3P9	16MP (4640 x 3488)	30fps-180fps	D: 75° H: 63.1° V: 49.1° <1.5%	MIPI	平板电脑；美容检测仪；高拍仪等 Tablet PC; cosmetic instrument high-speed scanner, etc
	1/2.33″ S5K2P1YX	16MP (4608 x 3456)	30fps	D: 82° H: 71° V: 50° <-0.5%	LVDS /MIPI	AI监控；智能家居；视频会议等 Intelligent monitoring;Smart home; Sport DV; Video conference, etc
	1/1.8″ AR2020	20MP (5120 X 3840)	30fp/ 60fps	D: 75° H: 63.1° V: 49.1° <1.5%	MIPI	监控；机器视觉；3D和立体成像等 Surveillance; Video Conferencing; Machine Vision; 3D Imaging, etc.
	1/2.4″ IMX230	20MP (5344 x 4016)	24fps	D: 79.8° H: 67.5° V: 53.4° <1.0%	MIPI	平板电脑；美容检测仪；高拍仪等 Tablet PC; cosmetic instrument high-speed scanner, etc
	1/2″ IMX586	48MP (8000 x 6000)	30fps	D: 79° H: 67° V: 53° <1.0%	USB2.0	监控；机器视觉；航拍无人机等 Surveillance; Video Conferencing; Machine Vision; Drones, etc.

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