**5MP 60FPS Global Shutter Camera Module**

**IMX568+HI3519DV500 camera board(mono sensor and full sensor optional)**

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* Video Encoding:H.265/H.264/MJPEG
* Video resolution:2448\*2048;
* Global shutter max to 5MP/60FPS
* Integrated neural network acceleration engine, computing power up to 2.5Tops INT8
* Dual ARM Cortex A55@1.2GHz processor, 32KB I-Cache, 32KB D-Cache ,256KB L3 cache
* USB3.0 video output,standard yuv protocol
* DC auto iris and CVBS can be optional ,need add one more expand board
* Default dual stream , main stream and sub stream
* Support AI super noise reduction, 3D noise reduction, 2D noise reduction, image edge enhancement, defogging, dynamic contrast enhancement, etc.
* Support automatic restart function after power failure/accidental failure;

**Datasheet:**

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| Order Model:M568H19D\_L21\_EN |
| System |
| CPU Model | HI3519DV500 Dual ARM Cortex A55@1000MHz |
| CPU Ability | 2.5 Tops INT8 |
| Flash | 8GB EMMC |
| DDR | **8Gbit DDR4 (2x 4Gbit)**  |
| Image |
| Sensor Board | SONY IMX568 1/1.8″Global Shutter Sensor |
| Video Resolution | 2488\*2048 /5MP |
| Video Compression | H.265/H.264/MJPEG |
| Video Frame | Main stream:2488\*2048/2048\*1520/ 1920\*1080 1-60fpsSub stream: 1280\*720 /704\*576/ 640\*480 352\*288 1-60fps |
| Lens | Fix lens  |
| Audio |
| Audio Interface | 2ch audio in(1ch Line In &1ch MIC In)1ch audio out,support voice intercom |
| Audio compression | G.711A、G.711U |
| Image  |
| AE | support |
| AGC | Support |
| AWB | Support |
| 3D | Support |
| Privacy Mask | Up to set 4 Privacy mask area  |
| Interesting area code | Support |
| Off network record video | Support |
| Motion detect | Up to set 4 motion detect area |
| Day&Night Switch | Built-in intelligent algorithm to auto control IR CUT switch,color and white&night auto switch |
| Video adjust | Adjustable image contrast, brightness, saturation, sharpness and image mirroring, flipping, fog penetration, strong light suppression, backlight compensation, noise reduction level, digital wide dynamic, etc. |
| Corridor mode | support |
| Remote manager | System setting/Video stream management/Account management/Network management |
| Alarm Detect | E-mail alarm,PC client alarm,Motion detect alarm |
| Function Interface | 1CH Reset |
| 1CH RS485(Optional) |
| 1CH alarm in(standard),1CH alarm out（optional,need add one board） |
| SD/TF card storage，max 1T storage（optional,need add one board）  |
| OSD | OSD place ,color ,words can be config |
| Network |
| Ethernet Interface | 1PCS RJ45 100M |
| Protocol | TCP/IP、UDP、RTP、RTSP、RTCP、RTMP、HTTP、DNS、DDNS、DHCP、NTP、PPPOE、SMTP、UPNP; |
| ONVIF | ONVIF Profile S |
| General Info. |
| PCB Size | CPU Board | 40\*40mm(screw hole 34\*34mm)  |
| Sensor Board | 38\*38mm(screw hole 34\*34mm)  |
| Lens holder Size | 22mm |
| Power Supply | DC12V(±10%) |
| Power Consumption | TBD |
| Working temperature | -30°~+70° |
| Working humidity | 10%~90% |

