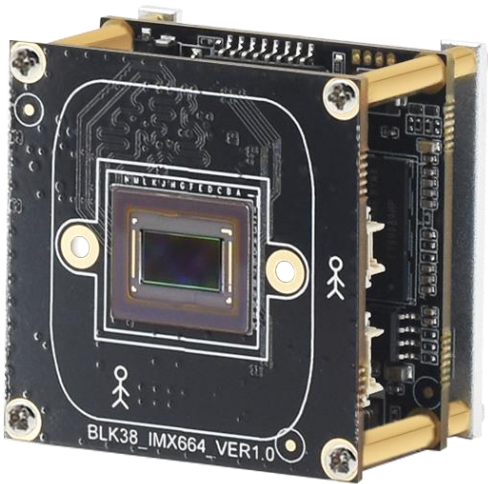


4MP IMX664 Black light

CMOS Onvif IP Camera Module

Key Features



- 1/1.8" 4MP IMX664 Black light CMOS Sensor.
- H. 265+, H.265, H.264 encoding
- Supports mirroring, flipping; BLH, HLC, 3DNR, Defog; Digital WDR
- Supports infrared/full-color/dual light modes, PWM dimming
- Standard ONVIF, GB28181, HIK, DH and other proprietary protocols
- Support electric zoom (optional), automatic aperture (optional)
- Provide SDK development kit, support secondary development, support CGI, HTTP, WEBSOCK protocol docking
- AIISP image enhancement, enhancing low noise effect
- Google Core Browser without plugins
- Supports a maximum frame rate of 60FPS

Technical parameters

|                            |                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------|
| Model                      | SVN-HD664K                                                                                      |
| Camera                     |                                                                                                 |
| DSP                        | Hi3519DV500, ARM Cortex A55@1000MHz Dual-Core                                                   |
| DDR                        | 1GB DDR4                                                                                        |
| Flash                      | 128MB SPI NAND Flash                                                                            |
| Image sensor               | 4MP 1/1.8 IMX664 Black light CMOS sensor, color: 0.0001Lux@F1.0 Black and white: 0.0001Lux@F1.0 |
| Watchdog                   | System watchdog                                                                                 |
| WDR                        | 120dB                                                                                           |
| Image parameters           |                                                                                                 |
| Main stream                | 60fps@ (2688*1520, 2560*1440, 1920*1080)                                                        |
| Subcode stream             | 30fps@ (704*576, 640*480)                                                                       |
| Third stream               | 30fps@ (704*576, 640*480)                                                                       |
| Frame rate enhancement     | Supports a maximum of 60FPS                                                                     |
| Video compression standard | H.265+/H.265/H.264                                                                              |
| Video compression bitrate  | 512 Kbps~32 Mbps                                                                                |
| white balance              | Automatic/Manual/Onetime White Balance                                                          |
| Electronic shutter         | 1/12 second to 1/100000 second                                                                  |
| Noise reduction            | Support 3D/2D noise reduction                                                                   |
| WDR                        | Support digital wide dynamic range                                                              |
| Auto Iris                  | Support DC IRIS automatic aperture                                                              |

|                                             |                                                                                                                                                                   |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AIISP                                       | Support AIISP image enhancement                                                                                                                                   |
| Image function                              | Support BLC, HLC, Defog, anti-flicker, lens correction, mirroring, flipping, gain and other functions                                                             |
| <b>Audio</b>                                |                                                                                                                                                                   |
| Audio Interface                             | 1-channel input, supporting microphone or microphone input; 1 output, supports connecting headphones or amplifiers                                                |
| Audio Compression                           | G711U / G711A / AAC-LC                                                                                                                                            |
| <b>Network</b>                              |                                                                                                                                                                   |
| Simultaneously preview the number of routes | Maximum 12CH                                                                                                                                                      |
| Network protocol                            | CGI, HTTP, HTTPS, GB28181, SIP, RTMP, TCP/IP, UDP, RTP, FTP, RTCP, RTSP, NTP, DHCP, DNS, DDNS, SNMP, SSL/TLS, WebSocket; Support standard protocols such as ONVIF |
| Browser                                     | Preview using plugins: IE10, IE11<br>Preview without plugins: Edge, Chrome, Firefox, etc                                                                          |
| <b>Auxiliary interface</b>                  |                                                                                                                                                                   |
| Network                                     | 1 RJ45 Ethernet port, 10 M/100 M adaptive                                                                                                                         |
| Audio                                       | 1-channel input: supports microphone or microphone input; 1-channel output: supports connecting headphones or amplifiers                                          |
| Lamp board control                          | Supports photosensitive detection input and PWM dimming                                                                                                           |
| USB port                                    | 1 USB 2.0 interface (5V power supply), supporting expansion of 4G/WiFi (dual band)/storage functions/UVC                                                          |
| <b>General</b>                              |                                                                                                                                                                   |
| Size                                        | 38*38*10.8mm, 38 Double Plate Structure                                                                                                                           |
| weight                                      | 10g                                                                                                                                                               |
| Operation temperature                       | -20℃～+60℃                                                                                                                                                         |
| Power supply                                | DC12V, 4W (MAX)                                                                                                                                                   |

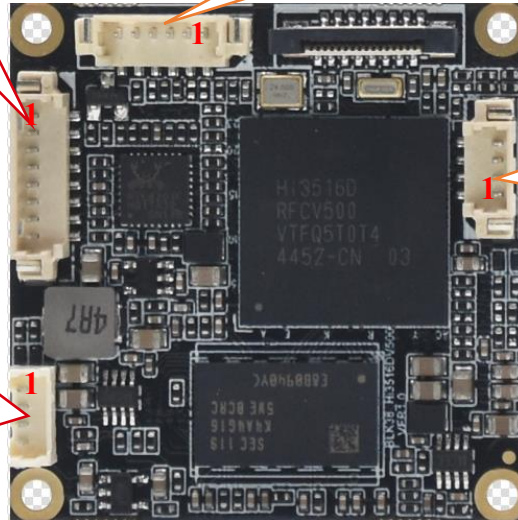
## Interface definition

1. 12V IN
2. GND
3. ETH\_P1/TX+
4. ETH\_P2/TX-
5. ETH\_P3/RX+
6. ETH\_P6/RX-
7. LINK indicator light
8. ACT indicator light

1. AUDIO IN
2. AUDIO OUT
3. GND
4. System Reset
5. RS485\_A
6. RS485\_B

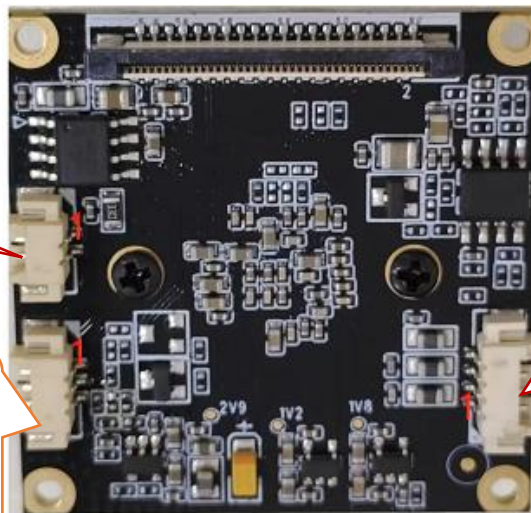
4. GND
3. USB\_DM
2. USB\_DP
1. 5V OUT

1. 3V3
2. UART0\_TX
3. UART0\_RX
4. GND



1. IR-CUT\_A
2. IR-CUT\_B

1. Light sensitive feedback input
2. GND
3. PWM Dimming output



4. damping -
3. damping +
2. drive +
1. drive -