

IPG-83H20AF

2.0M H.265 Low Illumination Autofocal IP Module

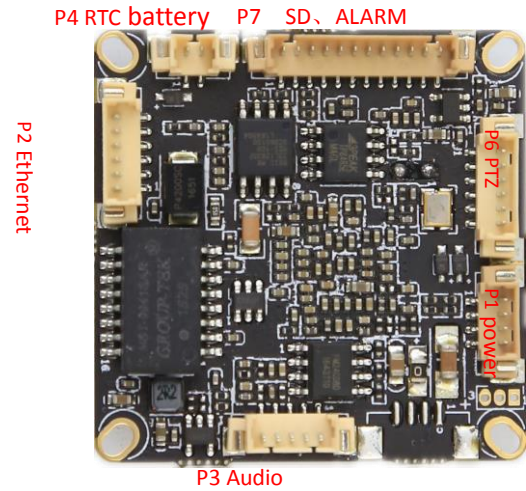
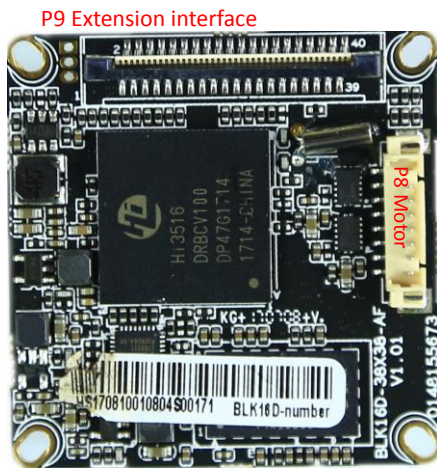
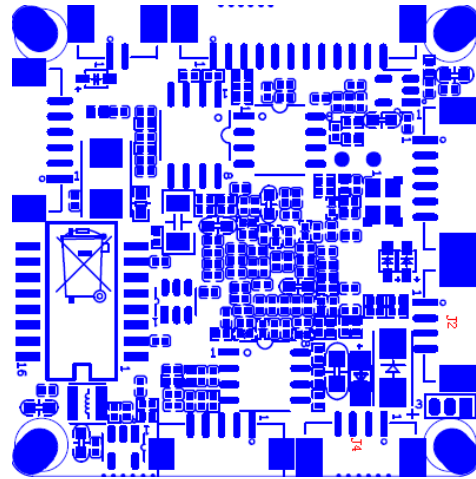
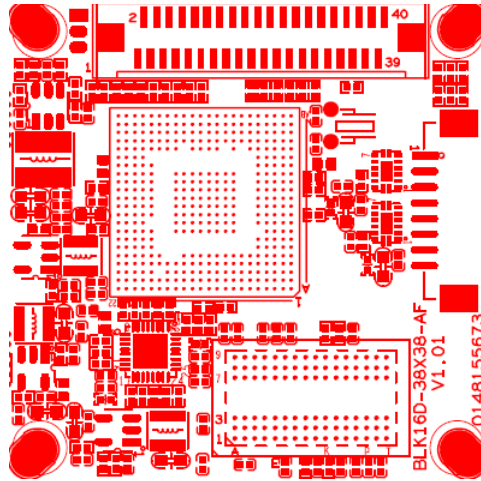
Features:

- 2.0M HD resolution, Autofocal, clear and fine images;
- Support 2D/3D noise reduction, digital wide dynamic;
- Advanced H.265+/H.265X video compression, Super low rate, high definition quality of image;
- Professional anti-lightning, conform to GB/T17626.5 and IEC61000-4-5.
- Support ONVIF ,access third party;
- Support various mobile monitoring(iPhone,Android);
- Provide web、CMS、center platform management software MYEYE, provide SDK development
- Support cloud technology, easy to achieve network penetration, fro in-line and alarm information pushed



Parameters:

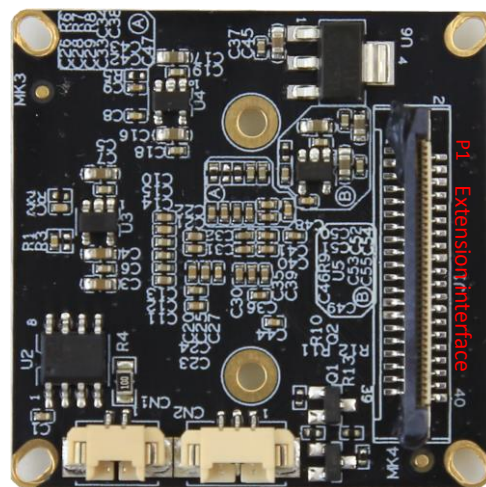
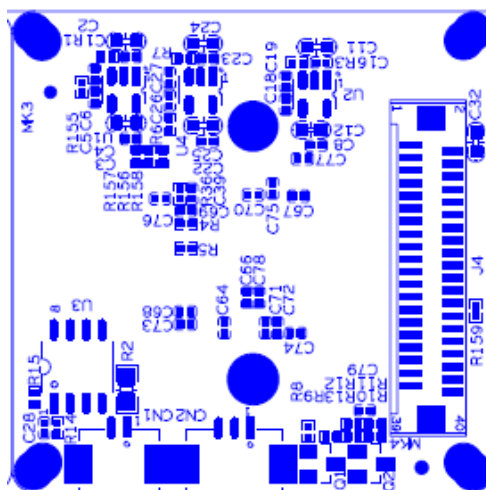
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|-----------------------|---|
| Model | IPG-83H20AF |
| System structure | Embedded RTOS, dual-core 32bit DSP (Hi3516D), pure hard compression ,watch dog |
| Sensor | 2.0M 1/2.7" AR0237 low illumination CMOS sensor ,color 0.01Lux@F1.2, black/white 0.001Lux@F1.2 |
| Video compression | H.265+/H.265X support dual stream, AVI; 0.1M~8Mbps variable; 1~30f/s variable |
| Image output | Main stream: 1920*1080@25fps, 1280*720@25fps; sub-stream: 704*576@25fps; |
| Shutter | 1/50(1/60)s to 1/10,000s |
| Lens | Standard 2.8mm-12mm auto-zoom |
| Day and night | Support IR-CUT, IR-CUT coil has an internal resistance of 20 ohms, the power-on time is less than 200ma, and the voltage is 3.5V-6V |
| Noise reduction | Support 2D/3D |
| Wide dynamic | Support |
| Auto iris | N/A |
| Audio compression | G.711, support bidirectional talk, audio&video synchronization |
| Audio interface | 1ch input, level: 2Vp-p, impedance: 1kΩ, support sound pick-up input; 1ch output, impedance: 16Ω, 30mw, support microphone |
| Network interface | 1*RJ45 10/100M adaptive Ethernet port; support RTSP/FTP/PPPOE/DHCP/DDNS/NTP/UPnP etc |
| Extension interface | support SD, 1*alarm out; RTC battery |
| Singal interface | One photo resistance interface, one IR-CUT interface ,support photo resistance signal and IR-CUT links to IR |
| PTZ | 1*RS485 |
| Motor interface | Support driven AF lens |
| Alarm I/O | 2/0(support alarm input and video link to background) |
| WIFI interface | N/A |
| Reset interface | N/A |
| SD Card | N/A |
| Reliability | Comprehensive lightning protection, 7 * 24 hours 65 °C high temperature stable and reliable testing |
| Intelligence analysis | N/A |
| Other function | Support WEB, OSD, live video transmission, motion detect and IO alarm, front-end storage/playback/download, and center reminder and image linkage, support JPEG capture: united remote client monitoring sofaware、MYEYE; perfect SDK; |
| ONVIF | Support |
| Mobile monitoring | Support multiple mobile monitoring (iOS, Android) |
| Power | DC12V/2A input, power consumption: ≤3W, |
| Dimension | (38mm*38mm)*2 |
| Other | Support POE power supply (optional) , The drive voltage of the light board is at 3.3V |



| sign | Socket | Specific No | Interface Description | Function |
|------|--------|-------------|-----------------------|-----------------|
| P1 | J2 | 1 | NC | Undefined |
| | | 2 | NC | Undefined |
| | | 3 | GND | GND |
| | | 4 | +12V | 12V DC input |
| P2 | J8 | 1 | ETHTR- | Ethernet signal |
| | | 2 | ETHTR+ | Ethernet signal |
| | | 3 | LED/PHY_AD3 | LED |
| | | 4 | ETHTX- | Ethernet signal |
| | | 5 | ETHTX+ | Ethernet signal |
| | | 6 | LED/PHY_AD0 | LED |
| P3 | J6 | 1 | GND | GND |
| | | 2 | VDAC_CVBS | VDAC_CVBS |
| | | 3 | AGND | AGND |
| | | 4 | AC_OURL | speaker_OUT |
| | | 5 | AC_LINEL | MIC_P |
| P4 | J7 | 1 | GND | GND |
| | | 2 | VBAT | VBAT |
| P5 | J3 | 1 | UART_RXD | |

| | | | | |
|----|-----|----|------------------|------------------------|
| | | 2 | UART_TXD | |
| | | 3 | GND | GND |
| P6 | J4 | 1 | GND | GND |
| | | 2 | USB_DP | USB_DP |
| | | 3 | USB_DM | USB_DM |
| | | 4 | +5V | +5V |
| P7 | CN1 | 1 | ALARM_IN1 | ALARM_IN1 |
| | | 2 | GND | GND |
| | | 3 | ALARM_IN2 | ALARM_IN2 |
| | | 4 | GND | GND |
| | | 5 | RS485A | RS485A |
| | | 6 | RS485B | RS485B |
| P8 | J9 | 1 | U25_BOUT2 | Motor driven interface |
| | | 2 | U25_BOUT1 | Motor driven interface |
| | | 3 | U26_BOUT2 | Motor driven interface |
| | | 4 | U26_BOUT1 | Motor driven interface |
| | | 5 | U26_AOUT2 | Motor driven interface |
| | | 6 | U26_AOUT1 | Motor driven interface |
| | | 7 | U25_AOUT2 | Motor driven interface |
| | | 8 | U25_AOUT1 | Motor driven interface |
| P9 | J1 | 1 | (12v) | 12V DC input |
| | | 2 | (12v) | 12V DC input |
| | | 3 | GND | GND |
| | | 4 | GND | GND |
| | | 5 | (5v) | 5V DC input |
| | | 6 | GND | GND |
| | | 7 | DOUT7 | Video signal output |
| | | 8 | DOUT6 | Video signal output |
| | | 9 | DOUT5 | Video signal output |
| | | 10 | DOUT4 | Video signal output |
| | | 11 | DOUT3 | Video signal output |
| | | 12 | DOUT2 | Video signal output |
| | | 13 | DOUT1 | Video signal output |
| | | 14 | DOUT0 | Video signal output |
| | | 15 | VIDEOIN_HD | VIDEOIN_HD |
| | | 16 | VIDEOIN_PCLK | VIDEOIN_PCLK |
| | | 17 | VIDEOIN_VD | VIDEOIN_VD |
| | | 18 | GND | GND |
| | | 19 | NC | NC |
| | | 20 | SCL | SCL |
| | | 21 | NC | NC |
| | | 22 | MCBSP_DR_SPI1_EN | SPI |
| | | 23 | NC | NC |

| | | | |
|--|----|-------------|---------------------|
| | 24 | REDCTRL | REDCTRL |
| | 25 | GND | GND |
| | 26 | GND | GND |
| | 27 | GND | GND |
| | 28 | 1.8V output | 1.8V output |
| | 29 | SDA | I2C SDA |
| | 30 | NC | NC |
| | 31 | NC | NC |
| | 32 | NC | NC |
| | 33 | NC | NC |
| | 34 | DOUT11 | Video signal output |
| | 35 | DOUT10 | Video signal output |
| | 36 | DOUT9 | Video signal output |
| | 37 | DOUT8 | Video signal output |
| | 38 | IRCUT | IRCUT |
| | 39 | IRCUT | IRCUT |
| | 40 | GND | GND |



P3 IR-CUT P2 Infrared

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|----|----|---|-------|--------------|
| P1 | J4 | 1 | (12v) | 12V DC input |
|----|----|---|-------|--------------|

| | | | | |
|----|-----|----|------------------|---------------------|
| | | 2 | (12v) | 12V DC input |
| | | 3 | GND | GND |
| | | 4 | GND | GND |
| | | 5 | (5v) | 5V DC input |
| | | 6 | GND | GND |
| | | 7 | DOUT7 | Video signal output |
| | | 8 | DOUT6 | Video signal output |
| | | 9 | DOUT5 | Video signal output |
| | | 10 | DOUT4 | Video signal output |
| | | 11 | DOUT3 | Video signal output |
| | | 12 | DOUT2 | Video signal output |
| | | 13 | DOUT1 | Video signal output |
| | | 14 | DOUT0 | Video signal output |
| | | 15 | VIDEOIN_HD | VIDEOIN_HD |
| | | 16 | VIDEOIN_PCLK | VIDEOIN_PCLK |
| | | 17 | VIDEOIN_VD | VIDEOIN_VD |
| | | 18 | GND | GND |
| | | 19 | NC | NC |
| | | 20 | SCL | SCL |
| | | 21 | NC | NC |
| | | 22 | MCBSP_DR_SPI1_EN | SPI |
| | | 23 | NC | NC |
| | | 24 | REDCTRL | REDCTRL |
| | | 25 | GND | GND |
| | | 26 | GND | GND |
| | | 27 | GND | GND |
| | | 28 | 1.8V DC input | 1.8V DC input |
| | | 29 | SDA | I2C SDA |
| | | 30 | NC | NC |
| | | 31 | NC | NC |
| | | 32 | NC | NC |
| | | 33 | NC | NC |
| | | 34 | DOUT11 | Video signal output |
| | | 35 | DOUT10 | Video signal output |
| | | 36 | DOUT9 | Video signal output |
| | | 37 | DOUT8 | Video signal output |
| | | 38 | IRCUT | IRCUT |
| | | 39 | IRCUT | IRCU |
| | | 40 | GND | GND |
| P2 | CN2 | 1 | Led | Led |
| | | 2 | GND | GND |
| | | 3 | NC | NC |
| P3 | CN1 | 1 | IRCUT | IRCUT input control |

| | | | | |
|--|--|---|-------|---------------------|
| | | 2 | IRCUT | IRCUT input control |
|--|--|---|-------|---------------------|