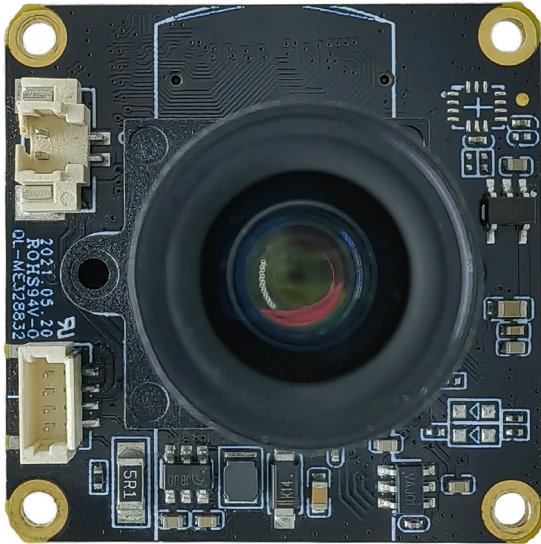
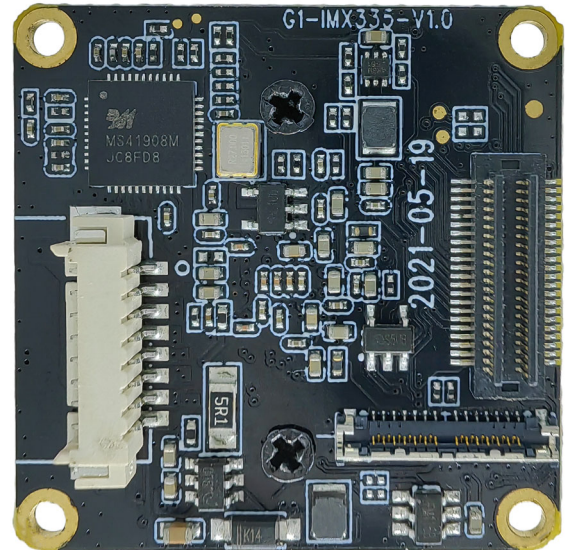


YDS-CMFL60101-IMX335 V1.0 5.14MP Sony IMX335 Fixed Focus Camera Module



Front View



Back View

Overview

The YDS-CMFL60101-IMX335 V1.0 camera module uses the Sony IMX335 high-quality CMOS image sensor, which has a diagonal of 6.52mm (1/2.8 type) CMOS image sensor, a pixel of 2.0um, a color square pixel display, and an effective pixel of 5.14 megapixels.

When used with the master board, it can support shooting 5MP pixel high-definition photos and up to 2.7K@30FPS video. The board frame size is 32x32mm, and the size from the top of the module lens to the PCB board is 32x32x23.5mm.



YDS-CMFL60101-IMX335 V1.0 5.14MP Sony IMX335 Fixed Focus Camera Module

Specifications

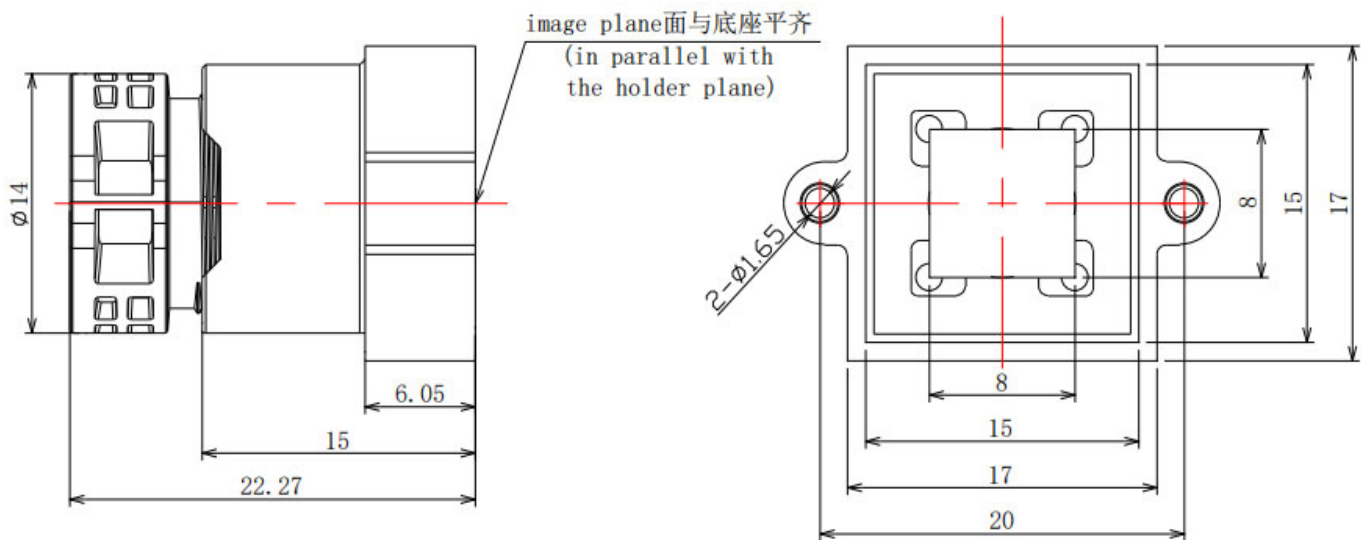
| | |
|---|---|
| Model No. | YDS-CMFL60101-IMX335 V1.0 |
| Image Sensor | IMX335 |
| Image Sensor Type | CMOS |
| Effective Pixels | 5.14 Megapixels |
| Sensor Size | 1/2.8" |
| Pixel Size | 2.0 um x 2.0 um |
| Video Frame Rate | 4K@30FPS/60FPS (Differential) 2.7K@30FPS 1080P@30FPS/60FPS 720P@60FPS/120FPS |
| Photo Resolution (with Master Board) | 20MP (5200x3900) (Differential) 13MP (4160x3120) (Differential) 12MP (4000x3000) (Differential) 10MP (3648x2736) (Differential) 8MP (3264x2448) (Differential) 5MP (2592x1944) Default 3MP (2048x1536) 2MP (1920x1080) |
| Operating Temperature | -10°C to +60°C |
| Storage Temperature | -20°C to +80°C |
| Humidity | 20% to 80% |
| PCB Dimensions | 32 x 32 mm |
| Module Size | 32 x 32 x 23.5 mm |
| PCB Screw Hole Spacing | 28 x 28 mm |
| PCB Screw Hole Diameter | 2 mm |

YDS-CMFL60101-IMX335 V1.0 5.14MP Sony IMX335 Fixed Focus Camera Module

Lens Specifications

| | |
|------------------------------|----------------|
| Lens Model No. | HX60101 |
| EFL (Focal Length) | 7 mm |
| TTL (Total Length) | 22.27 mm |
| F. No. | 1.65 |
| Lens Barrel Thread | M12 x P0.5 |
| Lens Construction | 6E |
| Diagonal View Angle (DFOV) | 52.2° (DFOV) |
| Horizontal View Angle (HFOV) | 45.8° (HFOV) |
| Vertical View Angle (VFOV) | 26.2° (VFOV) |
| Chief-Ray Angle | 10.7° |
| Distortion | -3.60% |
| Relative Illumination | >57.1% |
| Lens Operating Temperature | -20°C to +60°C |
| Lens Storage Temperature | -30°C to +80°C |

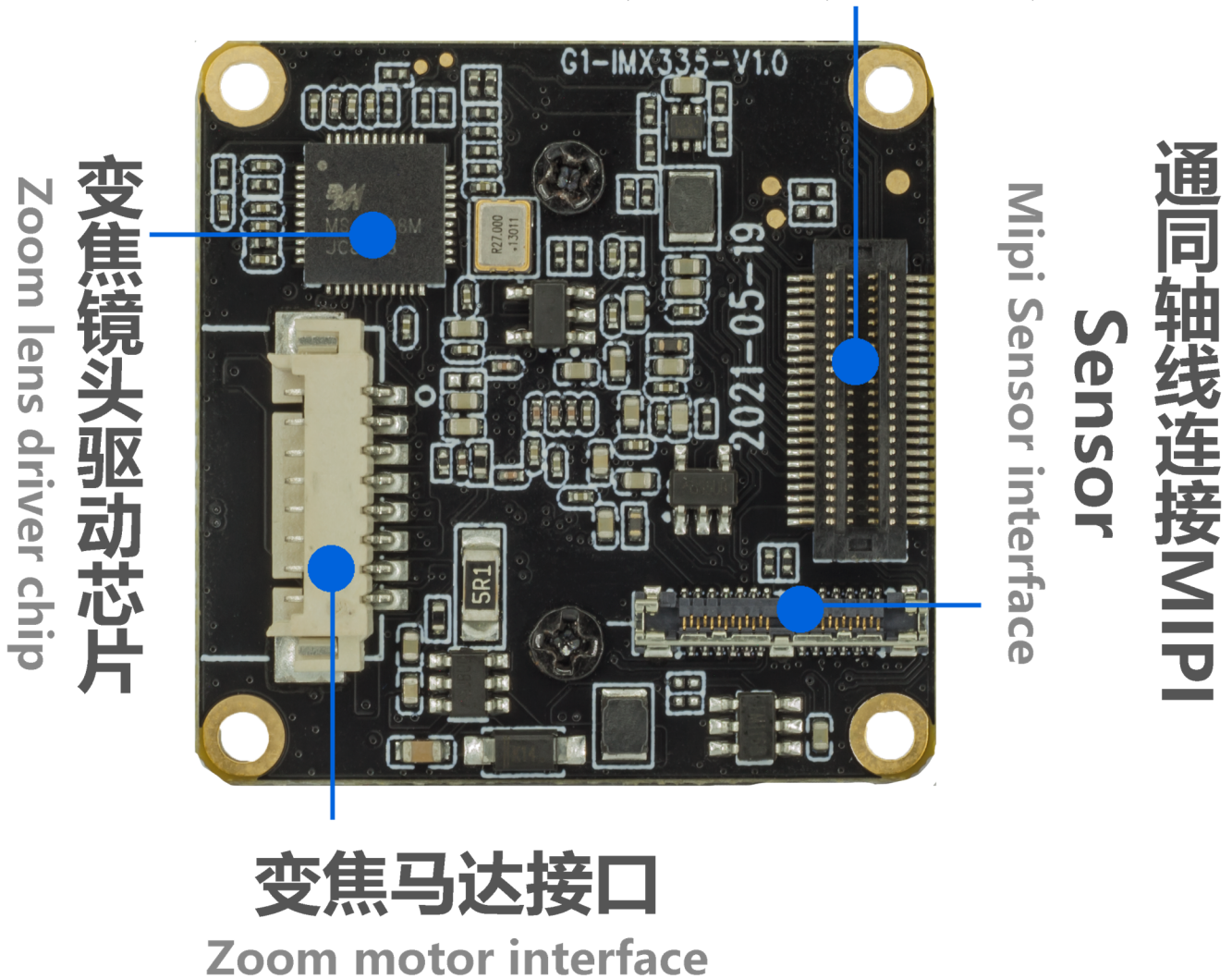
Lens Drawing



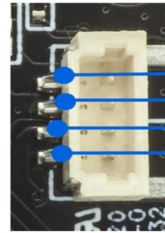
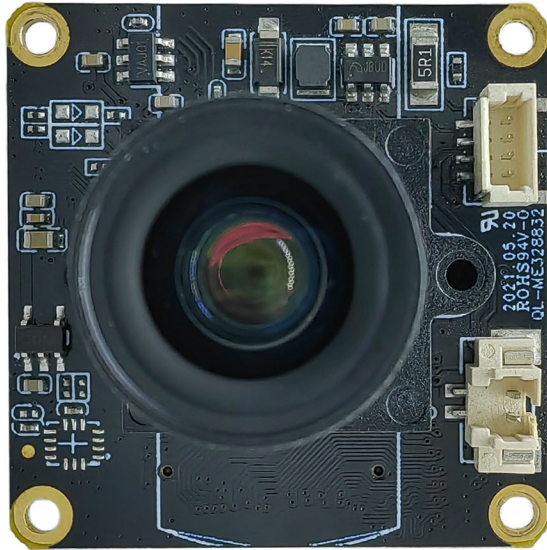
YDS-CMFL60101-IMX335 V1.0
5.14MP Sony IMX335 Fixed Focus Camera Module

通过板对板连接器支持自动AF变焦镜头 Sensor、IR-CUT、LED等

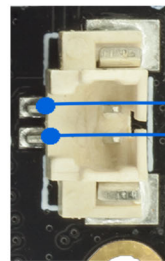
Connect AF Zoom Lens、Sensor、IR-CUT、Led



YDS-CMFL60101-IMX335 V1.0 5.14MP Sony IMX335 Fixed Focus Camera Module



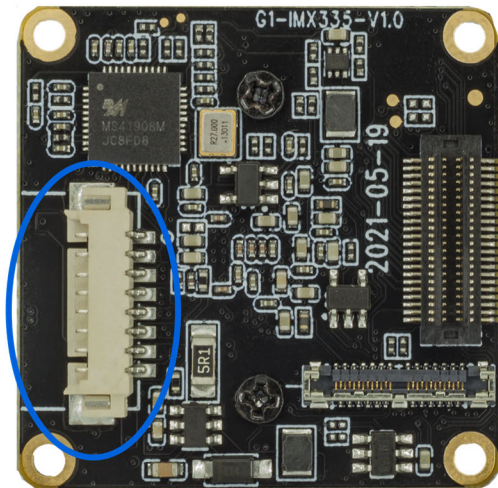
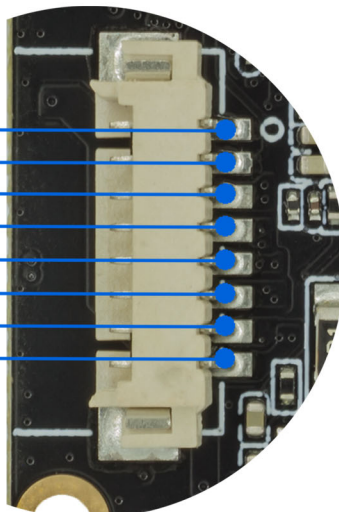
LED B -
LED B +
LED A -
LED A +



IR-CUT -
IR-CUT +

The two groups of fill light interfaces support the expansion of infrared lights and white light boards to provide fill light for the device. Note: The IR-Cut filter switch interface is used by lenses with filters, but this camera module does not support this function.

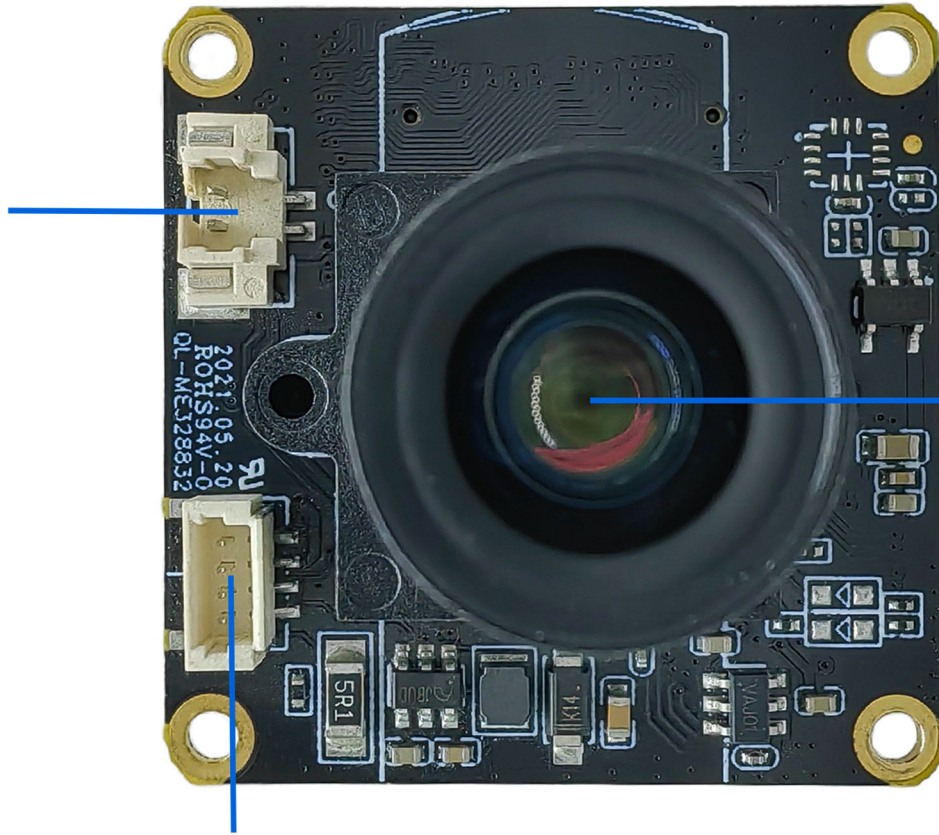
ZOOM A -
ZOOM A +
FOCUS A -
FOCUS A +
FOCUS B +
FOCUS B -
ZOOM B -
ZOOM B +



The auto focus interface leads to the connection automatically focusing motor to achieve the zoom function, but this camera module does not support zoom function.

YDS-CMFL60101-IMX335 V1.0 5.14MP Sony IMX335 Fixed Focus Camera Module

IR-CUT INTERFACE
滤光片切换器接口



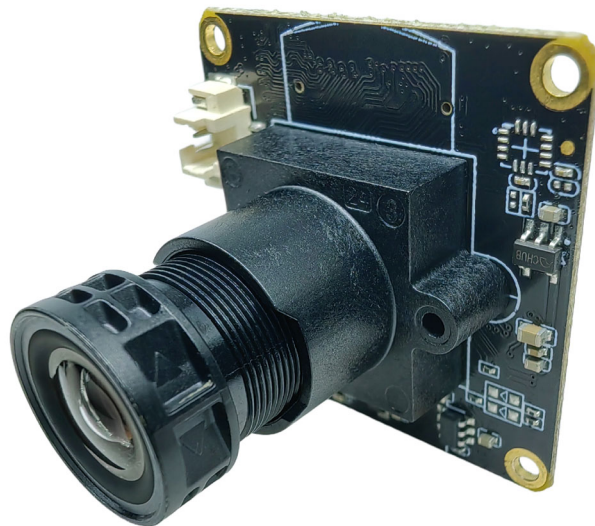
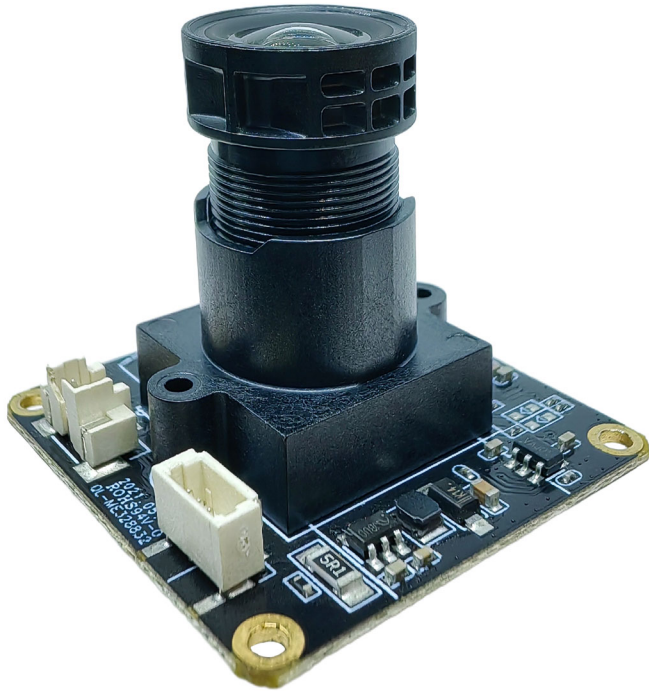
G1 IMX335 HX60101
V1.0 镜头模组

两组LED补光灯接口
LEDS * 2 INTERFACE

Note: You can choose between TBT board-to-board socket or connecting to the master board via coaxial cable. Users can use them flexibly according to the construction scenarios.



YDS-CMFL60101-IMX335 V1.0 5.14MP Sony IMX335 Fixed Focus Camera Module



[Product Information]

Ver.1.0

IMX335LLN

Diagonal 6.52 mm (Type 1 / 2.8) CMOS Solid-state Image Sensor with Square Pixel for Monochrome Cameras

Description

The IMX335LLN is a diagonal 6.52 mm (Type 1 / 2.8) CMOS active pixel type solid-state image sensor with a square pixel array and 5.14 M effective pixels. This chip operates with analog 2.9 V, digital 1.2 V, and interface 1.8 V triple power supply, and has low power consumption. High sensitivity, low dark current and no smear are achieved. This chip features an electronic shutter with variable charge-integration time.

(Applications: Surveillance cameras, FA cameras, Industrial cameras)

Features

- ◆ CMOS active pixel type dots
- ◆ Built-in timing adjustment circuit, H/V driver and serial communication circuit
- ◆ Input frequency: 6 to 27 MHz / 37.125 MHz / 74.25 MHz
- ◆ Number of recommended recording pixels: 2592 (H) × 1944 (V) approx. 5.04 M pixels
- ◆ Readout mode
 - All-pixel scan mode
 - Window cropping mode
 - Vertical / Horizontal direction-normal / inverted readout mode
- ◆ Readout rate
 - Maximum frame rate in All-pixel scan mode 2592(H) × 1944(V) A/D 10-bit : 60 frame/s
- ◆ High dynamic range (HDR) function
 - Multiple exposure HDR
 - Digital overlap HDR
- ◆ Variable-speed shutter function (resolution 1H units)
- ◆ 10-bit / 12-bit A/D converter
- ◆ CDS / PGA function
 - 0 dB to 30 dB : Analog Gain 30 dB (step pitch 0.3 dB)
 - 30.3 dB to 72 dB : Analog Gain 30 dB + Digital Gain 0.3 to 42 dB (step pitch 0.3 dB)
- ◆ Supports I/O
 - CSI-2 serial data output (2 Lane / 4 Lane, RAW10 / RAW12 output)
- ◆ Recommended exit pupil distance: -100 mm to $-\infty$

STARVIS

* STARVIS is a trademark of Sony Corporation. The STARVIS is back-illuminated pixel technology used in CMOS image sensors for surveillance camera applications. It features a sensitivity of 2000 mV or more per $1 \mu\text{m}^2$ (color product, when imaging with a 706 cd/m² light source, F5.6 in 1 s accumulation equivalent), and realizes high picture quality in the visible-light and near infrared light regions.

Sony reserves the right to change products and specifications without prior notice.

Sony logo is a registered trademark of Sony Corporation.

Device Structure

| | |
|--|--|
| ◆ CMOS image sensor | |
| ◆ Image size | Type 1/2.8 |
| ◆ Total number of pixels | 2704 (H) × 2104 (V) approx. 5.69 M pixels |
| ◆ Number of effective pixels | 2616 (H) × 1964 (V) approx. 5.14 M pixels |
| ◆ Number of active pixels | 2616 (H) × 1960 (V) approx. 5.13 M pixels |
| ◆ Number of recommended recording pixels | 2592 (H) × 1944 (V) approx. 5.04 M pixels |
| ◆ Unit cell size | 2.0 μm (H) × 2.0 μm (V) |
| ◆ Optical black | Horizontal (H) direction: Front 0 pixel, rear 0 pixel Vertical (V) direction: Front 13 pixels, rear 0 pixel |
| ◆ Dummy | Horizontal (H) direction: Front 0 pixel, rear 0 pixel Vertical (V) direction: Front 0 pixel, rear 0 pixel |
| ◆ Package | 88 pin BGA |

Image Sensor Characteristics

(Tj = 60 °C)

| Item | | Value | Remarks |
|-------------------|------|------------|---|
| Sensitivity (F8) | Typ. | 1961 Digit | 1/30 s accumulation 12 bit converted value |
| Saturation signal | Min. | 3895 Digit | 12 bit converted value |

Basic Drive Mode

| Drive mode | Recommended number of recording pixels | Maximum frame rate [frame/s] | Output interface | ADC [bit] |
|------------|--|------------------------------|------------------|-----------|
| All pixel | 2592 (H) × 1944 (V) approx. 5.04 M pixels | 60 | CSI-2 | 10 |

[Product Information]

IMX335LQN

Ver.1.1

Diagonal 6.52 mm (Type 1/2.8) CMOS Solid-state Image Sensor with Square Pixel for Color Cameras

Description

The IMX335LQN is a diagonal 6.52 mm (Type 1/2.8) CMOS active pixel type solid-state image sensor with a square pixel array and 5.14 M effective pixels. This chip operates with analog 2.9 V, digital 1.2 V, and interface 1.8 V triple power supply, and has low power consumption. High sensitivity, low dark current and no smear are achieved through the adoption of R, G and B primary color mosaic filters. This chip features an electronic shutter with variable charge-integration time.

(Applications: Surveillance cameras, FA cameras, Industrial cameras)

Features

- ◆ CMOS active pixel type dots
- ◆ Built-in timing adjustment circuit, H/V driver and serial communication circuit
- ◆ Input frequency: 6 to 27 MHz / 37.125 MHz / 74.25 MHz
- ◆ Number of recommended recording pixels: 2592 (H) × 1944 (V) approx. 5.04 M pixels
- ◆ Readout mode
 - All-pixel scan mode
 - Horizontal/Vertical 2/2-line binning mode
 - Window cropping mode
 - Vertical / Horizontal direction-normal / inverted readout mode
- ◆ Readout rate
 - Maximum frame rate in All-pixel scan mode 2592 (H) × 1944 (V) A/D 10-bit : 60 frame/s
- ◆ High dynamic range (HDR) function
 - Multiple exposure HDR
 - Digital overlap HDR
- ◆ Variable-speed shutter function (resolution 1H units)
- ◆ 10-bit / 12-bit A/D converter
- ◆ CDS / PGA function
 - 0 dB to 30 dB : Analog Gain 30 dB (step pitch 0.3 dB)
 - 30.3 dB to 72 dB : Analog Gain 30 dB + Digital Gain 0.3 to 42 dB (step pitch 0.3 dB)
- ◆ Supports I/O
 - CSI-2 serial data output (2 Lane / 4 Lane, RAW10 / RAW12 output)
- ◆ Recommended exit pupil distance: -30 mm to $-\infty$

STARVIS

* STARVIS is a trademark of Sony Corporation. The STARVIS is back-illuminated pixel technology used in CMOS image sensors for surveillance camera applications. It features a sensitivity of 2000 mV or more per $1 \mu\text{m}^2$ (color product, when imaging with a 706 cd/m^2 light source, F5.6 in 1 s accumulation equivalent), and realizes high picture quality in the visible-light and near infrared light regions.

Sony reserves the right to change products and specifications without prior notice.

Sony logo is a registered trademark of Sony Corporation.

Device Structure

- ◆ CMOS image sensor
- ◆ Image size Type 1/2.8
- ◆ Total number of pixels 2704 (H) × 2104 (V) approx. 5.69 M pixels
- ◆ Number of effective pixels 2616 (H) × 1964 (V) approx. 5.14 M pixels
- ◆ Number of active pixels 2616 (H) × 1960 (V) approx. 5.11 M pixels
- ◆ Number of recommended recording pixels 2592 (H) × 1944 (V) approx. 5.04 M pixels
- ◆ Unit cell size 2.0 μm (H) × 2.0 μm (V)
- ◆ Optical black Horizontal (H) direction: Front 0 pixel, rear 0 pixel
Vertical (V) direction: Front 13 pixels, rear 0 pixel
- ◆ Dummy Horizontal (H) direction: Front 0 pixel, rear 0 pixel
Vertical (V) direction: Front 0 pixel, rear 0 pixel
- ◆ Package 88 pin CSP BGA

Image Sensor Characteristics

(Tj = 60 °C)

| Item | | Value | Remarks |
|--------------------|------|------------|---|
| Sensitivity (F5.6) | Typ. | 2200 Digit | 1/30 s accumulation 12 bit converted value |
| Saturation signal | Min. | 3895 Digit | 12 bit converted value |

Basic Drive Mode

| Drive mode | Recommended number of recording pixels | Maximum frame rate [frame/s] | Output interface | ADC [bit] |
|---|--|------------------------------|------------------|-----------|
| All pixel | 2592 (H) × 1944 (V) approx. 5.04 M pixels | 60 | CSI-2 | 10 |
| Horizontal/ Vertical 2/2-line binning | 1296 (H) × 972 (V) approx. 1.26 M pixels | 60 | CSI-2 | 10 |

Cameras Applications



Automotive Driver Pilot



Live Streaming



Video Conference



Eye Tracker Biometric Detection



Machine Vision



Agricultural Monitor



Night Vision Security



Drone and Sports Eagle Eyes



Interactive Pet Camera



YDS CAMERA MODULE

your best camera partner

Camera Module Pinout Definition Reference Chart

| OmniVision | Sony | Samsung | On-Semi | Aptina | Himax | GalaxyCore | PixArt | SmartSens | Sensors |
|-------------------------------|---------|-------------|---------|--------|-------|------------|--------|-----------|---|
| Pin Signal | | Description | | | | | | | |
| DGND | GND | | | | | | | | ground for digital circuit |
| AGND | | | | | | | | | ground for analog circuit |
| PCLK | DCK | | | | | | | | DVP PCLK output |
| XCLR | PWDN | XSHUTDOWN | STANDBY | | | | | | power down active high with internal pull-down resistor |
| MCLK | XVCLK | XCLK | INCK | | | | | | system input clock |
| RESET | RST | | | | | | | | reset active low with internal pull-up resistor |
| NC | NULL | | | | | | | | no connect |
| SDA | SIO_D | SIOD | | | | | | | SCCB data |
| SCL | SIO_C | SIOC | | | | | | | SCCB input clock |
| VSYN | XVS | FSYN | | | | | | | DVP VSYNC output |
| HREF | XHS | | | | | | | | DVP HREF output |
| DOVDD | | | | | | | | | power for I/O circuit |
| AFVDD | | | | | | | | | power for VCM circuit |
| AVDD | | | | | | | | | power for analog circuit |
| DVDD | | | | | | | | | power for digital circuit |
| STROBE | FSTROBE | | | | | | | | strobe output |
| FSIN | | | | | | | | | synchronize the VSYNC signal from the other sensor |
| SID | | | | | | | | | SCCB last bit ID input |
| ILPWM | | | | | | | | | mechanical shutter output indicator |
| FREX | | | | | | | | | frame exposure / mechanical shutter |
| GPIO | | | | | | | | | general purpose inputs |
| SLASEL | | | | | | | | | I2C slave address select |
| AFEN | | | | | | | | | CEN chip enable active high on VCM driver IC |
| MIPI Interface | | | | | | | | | |
| MDN0 | DN0 | MD0N | DATA_N | DMO1N | | | | | MIPI 1st data lane negative output |
| MDP0 | DP0 | MD0P | DATA_P | DMO1P | | | | | MIPI 1st data lane positive output |
| MDN1 | DN1 | MD1N | DATA2_N | DMO2N | | | | | MIPI 2nd data lane negative output |
| MDP1 | DP1 | MD1P | DATA2_P | DMO2P | | | | | MIPI 2nd data lane positive output |
| MDN2 | DN2 | MD2N | DATA3_N | DMO3N | | | | | MIPI 3rd data lane negative output |
| MDP2 | DP2 | MD2P | DATA3_P | DMO3P | | | | | MIPI 3rd data lane positive output |
| MDN3 | DN3 | MD3N | DATA4_N | DMO4N | | | | | MIPI 4th data lane negative output |
| MDP3 | DP3 | MD3P | DATA4_P | DMO4P | | | | | MIPI 4th data lane positive output |
| MCN | CLKN | CLK_N | DCKN | | | | | | MIPI clock negative output |
| MCP | CLKP | MCP | CLK_P | DCKN | | | | | MIPI clock positive output |
| DVP Parallel Interface | | | | | | | | | |
| D0 | DO0 | Y0 | | | | | | | DVP data output port 0 |
| D1 | DO1 | Y1 | | | | | | | DVP data output port 1 |
| D2 | DO2 | Y2 | | | | | | | DVP data output port 2 |
| D3 | DO3 | Y3 | | | | | | | DVP data output port 3 |
| D4 | DO4 | Y4 | | | | | | | DVP data output port 4 |
| D5 | DO5 | Y5 | | | | | | | DVP data output port 5 |
| D6 | DO6 | Y6 | | | | | | | DVP data output port 6 |
| D7 | DO7 | Y7 | | | | | | | DVP data output port 7 |
| D8 | DO8 | Y8 | | | | | | | DVP data output port 8 |
| D9 | DO9 | Y9 | | | | | | | DVP data output port 9 |
| D10 | DO10 | Y10 | | | | | | | DVP data output port 10 |
| D11 | DO11 | Y11 | | | | | | | DVP data output port 11 |

www.YDSCAM.com sales@ydscam.com Phone (WeChat, QQ): (+86) 177 2732 6718

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Camera Reliability Test

| Reliability Inspection Item | | Testing Method | Acceptance Criteria | |
|-----------------------------|-----------------------------|---|-------------------------|-------------------------|
| Category | Item | | | |
| Environmental | Storage Temperature | High 60°C 96 Hours | Temperature Chamber | No Abnormal Situation |
| | | Low -20°C 96 Hours | Temperature Chamber | No Abnormal Situation |
| | Operation Temperature | High 60°C 24 Hours | Temperature Chamber | No Abnormal Situation |
| | | Low -20°C 24 Hours | Temperature Chamber | No Abnormal Situation |
| | Humidity | 60°C 80% 24 Hours | Temperature Chamber | No Abnormal Situation |
| | Thermal Shock | High 60°C 0.5 Hours Low -20°C 0.5 Hours Cycling in 24 Hours | Temperature Chamber | No Abnormal Situation |
| Physical | Drop Test (Free Falling) | Without Package 60cm | 10 Times on Wood Floor | Electrically Functional |
| | | With Package 60cm | 10 Times on Wood Floor | Electrically Functional |
| | Vibration Test | 50Hz X-Axis 2mm 30min | Vibration Table | Electrically Functional |
| | | 50Hz Y-Axis 2mm 30min | Vibration Table | Electrically Functional |
| | | 50Hz Z-Axis 2mm 30min | Vibration Table | Electrically Functional |
| | Cable Tensile Strength Test | Loading Weight 4 kg 60 Seconds Cycling in 24 Hours | Tensile Testing Machine | Electrically Functional |
| Electrical | ESD Test | Contact Discharge 2 KV | ESD Testing Machine | Electrically Functional |
| | | Air Discharge 4 KV | ESD Testing Machine | Electrically Functional |
| | Aging Test | On/Off 30 Seconds Cycling in 24 Hours | Power Switch | Electrically Functional |
| | USB Connector | On/Off 250 Times | Plug and Unplug | Electrically Functional |



Camera Inspection Standard

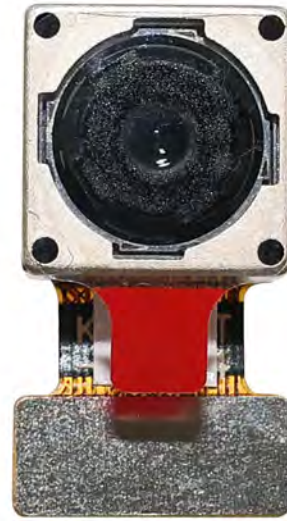
| Inspection Item | | Inspection Method | Standard of Inspection | | |
|------------------|----------|-------------------|-----------------------------|--|---------------------------------|
| Category | Item | | | | |
| Appearance | FPC/ PCB | Color | The Naked Eye | Major Difference is Not Allowed. | |
| | | Be Torn/Chopped | The Naked Eye | Copper Crack Exposure is Not Allowed. | |
| | | Marking | The Naked Eye | Clear, Recognizable (Within 30cm Distance) | |
| | Holder | Scratches | The Naked Eye | The Inside Crack Exposure is Not Allowed | |
| | | Gap | The Naked Eye | Meet the Height Standard | |
| | | Screw | The Naked Eye | Make Sure Screws Are Presented (If Any) | |
| | | Damage | The Naked Eye | The Inside Crack Exposure is Not Allowed | |
| | Lens | Scratch | The Naked Eye | No Effect On Resolution Standard | |
| | | Contamination | The Naked Eye | No Effect On Resolution Standard | |
| | | Oil Film | The Naked Eye | No Effect On Resolution Standard | |
| | | Cover Tape | The Naked Eye | No Issue On Appearance. | |
| | Function | Image | No Communication | Test Board | Not Allowed |
| | | | Bright Pixel | Black Board | Not Allowed In the Image Center |
| Dark Pixel | | | White board | Not Allowed In the Image Center | |
| Blurry | | | The Naked Eye | Not Allowed | |
| No Image | | | The Naked Eye | Not Allowed | |
| Vertical Line | | | The Naked Eye | Not Allowed | |
| Horizontal Line | | | The Naked Eye | Not Allowed | |
| Light Leakage | | | The Naked Eye | Not Allowed | |
| Blinking Image | | | The Naked Eye | Not Allowed | |
| Bruise | | | Inspection Jig | Not Allowed | |
| Resolution | | | Chart | Follows Outgoing Inspection Chart Standard | |
| Color | | | The Naked Eye | No Issue | |
| Noise | | | The Naked Eye | Not Allowed | |
| Corner Dark | | | The Naked Eye | Less Than 100px By 100px | |
| Color Resolution | | | The Naked Eye | No Issue | |
| Dimension | Height | The Naked Eye | Follows Approval Data Sheet | | |
| | Width | The Naked Eye | Follows Approval Data Sheet | | |
| | Length | The Naked Eye | Follows Approval Data Sheet | | |
| | Overall | The Naked Eye | Follows Approval Data Sheet | | |

YDSCAM Package Solutions

YDS Camera Module



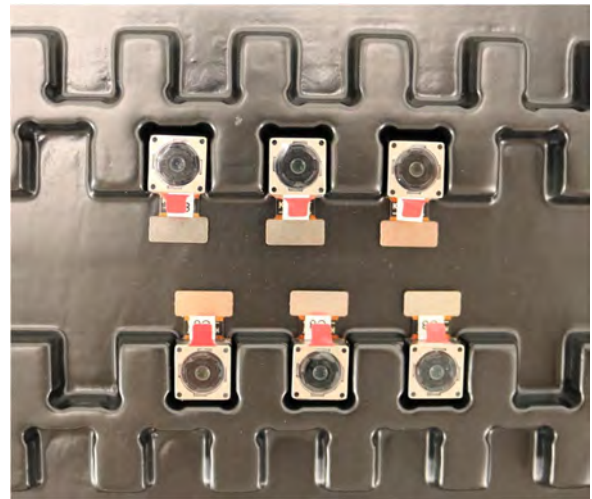
Complete with Lens Protection Film



Tray with Grid and Space



Place Cameras on the Tray

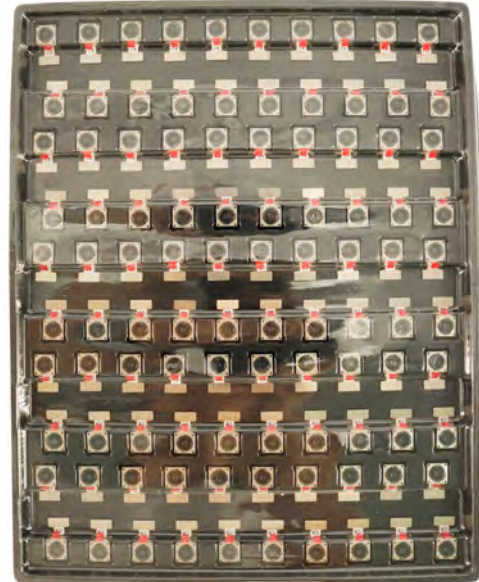


YDSCAM Package Solutions

Full Tray of Cameras



Cover Tray with Lid



Place Tray into Anti-Static Bag



Vacuum the Anti-Static Bag



YDSCAM Package Solutions

Sealed Vacuum Anti-Static Bag with Labels

1. Model and Description 2. Quantity 3. Manufacturing Date Code 4. Caution



YDSCAM Package Solutions

Place Foam Sheets Between Tray Bags



Foam Sheets are Larger Than Trays



Place Foam Sheets and Trays into Box



Foam Sheets are Tightly Fitting in Box



Seal the Carbon Box



Label the Carbon Shipping Box





YDSCAM Package Solutions

USB Camera Module

Complete with Lens Protection Film



Place Camera Sample into Anti-Static Bag

Place USB Cameras into Tray



Seal the Tray with Anti-Static Bag

Label the Carbon Shipping Box



YDSCAM Package Solutions

Place Camera Sample into Anti-Static Bag



Place Connectors into Anti-Static Bag



Label the Sample Bags



Place Connectors into Reel



Place Samples into the Carbon Box



Place Connectors into the Carbon Box





YDS CAMERA MODULE

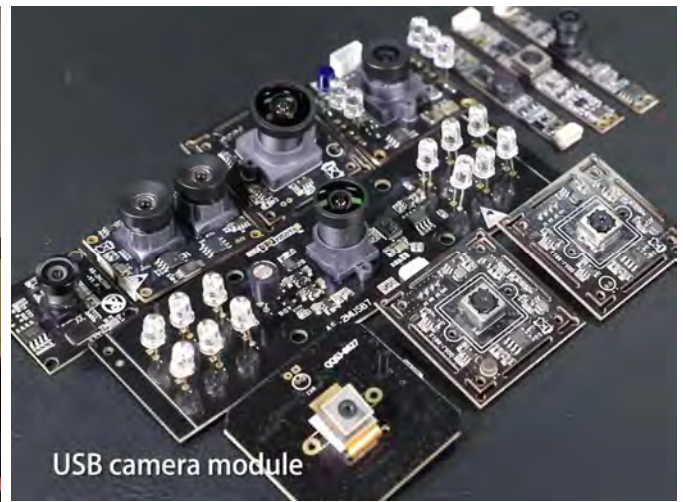
your best camera partner

Company YDSCAM

YingDeShun Co. Ltd. (YDS) was established in 2017, a next-generation technology driven manufacturer specialized in research, design, and produce of audio and video products. YDS is occupying 20,000 square feet automated plants with 100 employees of annual throughput 30,000,000 units cameras.

YDS provides OEM, ODM design, contract manufacturing, and builds the camera products. You may provide the requirements to us, even with a hand draft, our sales and engineering work together to meet your needs. We consider ourselves your last-term partner in developing practical and innovative solutions.

Our team covers everything from initial concept development to mass produced product. YDS specializes in customized camera design, raw material, electronic engineering, firmware/software development, product testing, and packing design. Our experienced strategic supply systems offer a robust and dependable manufacturing capacity for orders of various sizes.



Limited Warranty

YDS provides the following limited warranty if you purchased the Product(s) directly from YDS company or from YDS's website www.YDSCAM.com. Product(s) purchased from other sellers or sources are not covered by this Limited Warranty. YDS guarantees that the Product(s) will be free from defects in materials and workmanship under normal use for a period of one (1) year from the date you receive the product ("Warranty Period").

For all Product(s) that contain or develop material defects in materials or workmanship during the Warranty Period, YDS will, at its sole option, either: (i) repair the Product(s); (ii) replace the Product(s) with a new or refurbished Product(s) (replacement Product(s) being of identical model or functional equivalent); or (iii) provide you a refund of the price you paid for the Product(s).

This Limited Warranty of YDS is solely limited to repair and/or replacement on the terms set forth above. YDS is not reliable or responsible for any subsequent events.



www.YDSCAM.com sales@ydscom.com Phone (WeChat, QQ): (+86) 177 2732 6718

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