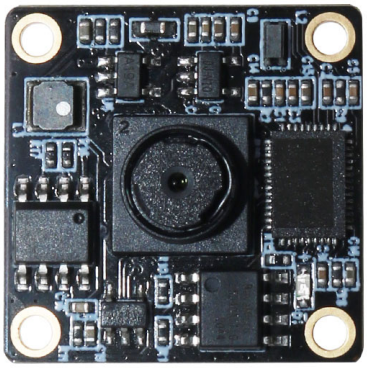
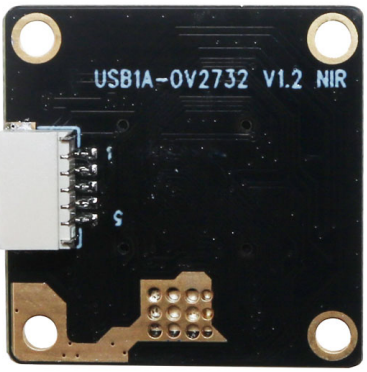
# YDS CAMERA MODULE

*your best camera partner*

## YDS-USB1A-OV2732 V1.2 NIR

### 2MP OmniVision OV2732 No IR Filter Fixed Focus USB 2.0 Camera Module






YDS-USB1A-OV2732 V1.2 NIR is a 2MP Fixed Focus USB camera module based on 1/4" OV2732 image sensor. It delivers high-speed, 2K resolution ultra sharp image.

The compact size lens holder enables fitting in small mobile devices. This camera module is ideal solution for face recognition, identity detection, access control.

Key Features

- 2K resolution (1920 x 1080) OmniVision OV2732 sensor
- No IR Filter Lens
- High speed USB 2.0 Plug and Play
- MJPG and YUV2 output format
- Low power consumption
- Compact size
- UVC compliant to Windows, Linux, OS with UVC driver
- USB OTG (On-The-Go) support

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### 2MP OmniVision OV2732 No IR Filter Fixed Focus USB 2.0 Camera Module

| Camera Module No. | YDS-USB1A-OV2732 V1.2 NIR |
|---|---|
| Resolution | 2MP |
| Image Sensor | OV2732 |
| Sensor Type | 1/4" |
| Pixel Size | 2.0 um x 2.0 um |
| EFL | 3.20 mm |
| F.NO | 2.80 |
| Pixel | 1920 x 1080 |
| View Angle | 70.0°(DFOV) 58.6°(HFOV) 45.3°(VFOV) |
| Lens Dimensions | 8.50 x 8.50 x 5.40 mm |
| Module Type | Fixed Focus |
| Lens Model | YDS-LENS-M5182 |
| Interface | USB 2.0 |
| Output Format | MJPG / YUV2 |
| Auto Control | Saturation, Contrast, Acutance<br>White Balance, Exposure |
| Audio (Optional) | None |
| Input Voltage | DC 5V |
| Working Current | Max 500mA |
| PCB Size | 22.00 x 22.00 mm |
| System Compatibility | Windows XP (SP2, SP3), Vista, 7, 8, 10, 11<br>Android, Mac OS, Linux or OS with UVC Driver<br>Raspberry Pi by USB Port |
| Software for USB Camera | AMCAP, Webcam Viewer, V4L2 Controls<br>Contacam, VLC Player, MotionEye OS<br>iSpy, ZoneMider, Yawcam |
| Lens Type | No IR Filter Lens |
| Operating Temperature | -40°C to +85°C |
| USB Cable | YDS-Cable-U001 |

**Wide Compatibility with Windows, Android, Mac OS, Linux, or Raspberry Pi**

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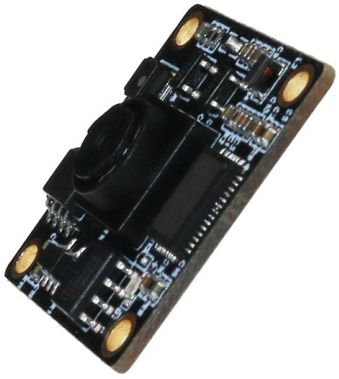
Top View

Side View



Bottom View

Mating Connector

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### 2MP OmniVision OV2732 No IR Filter Fixed Focus USB 2.0 Camera Module

| FORMAT | RESOLUTION | FRAME RATE |
|---|---|---|
| | | USB 2.0 |
| MJPG | 320 x 240 | 30 FPS |
| | 640 x 360 | 30 FPS |
| | 640 x 480 (VGA) | 30 FPS |
| | 1280 x 720 (720P) | 30 FPS |
| | 1920 x 1080 (1080P) | 30 FPS |
| YUY2 | 320 x 240 | 30 FPS |
| | 640 x 360 | 30 FPS |
| | 640 x 480 (VGA) | 30 FPS |

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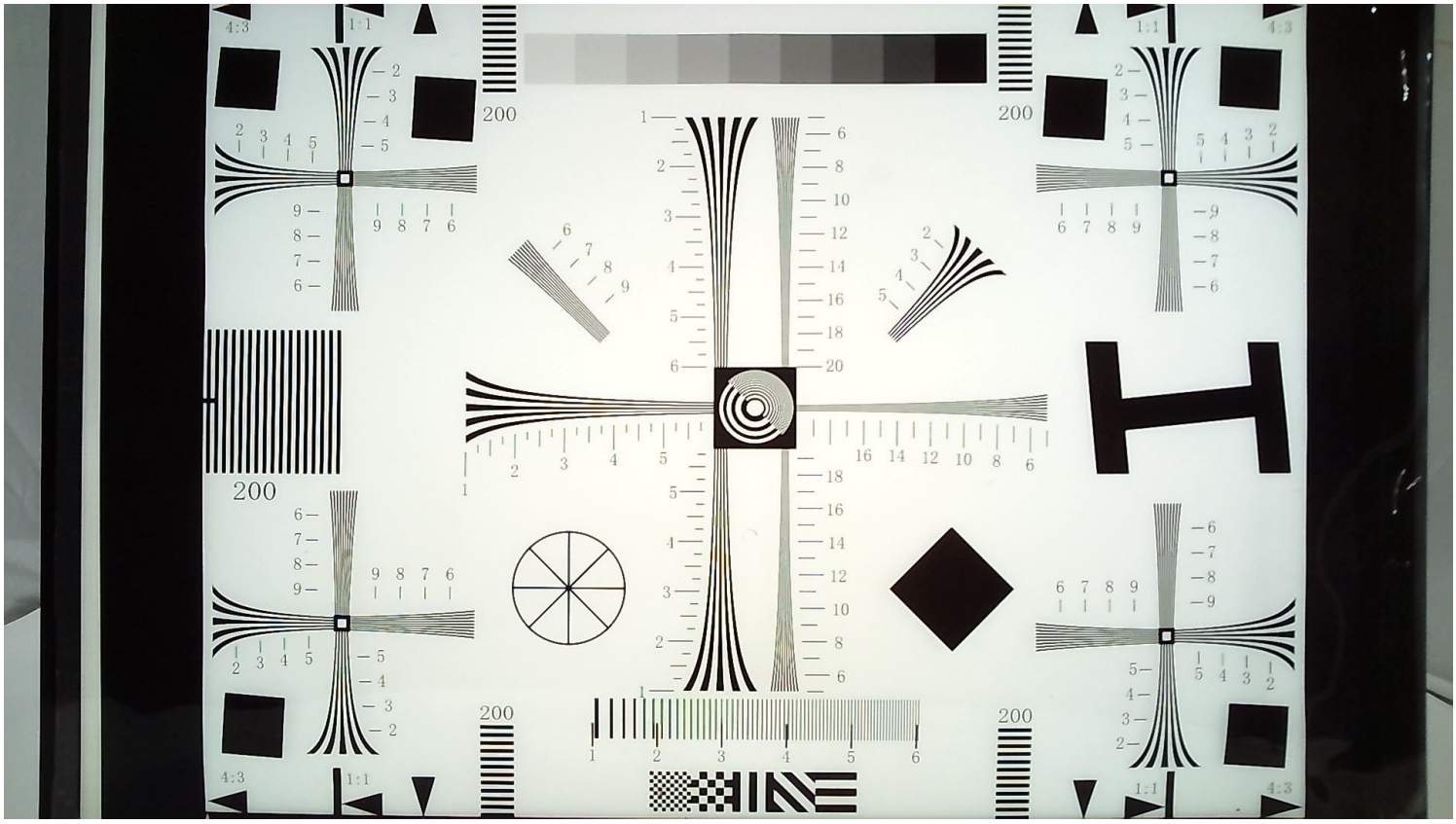

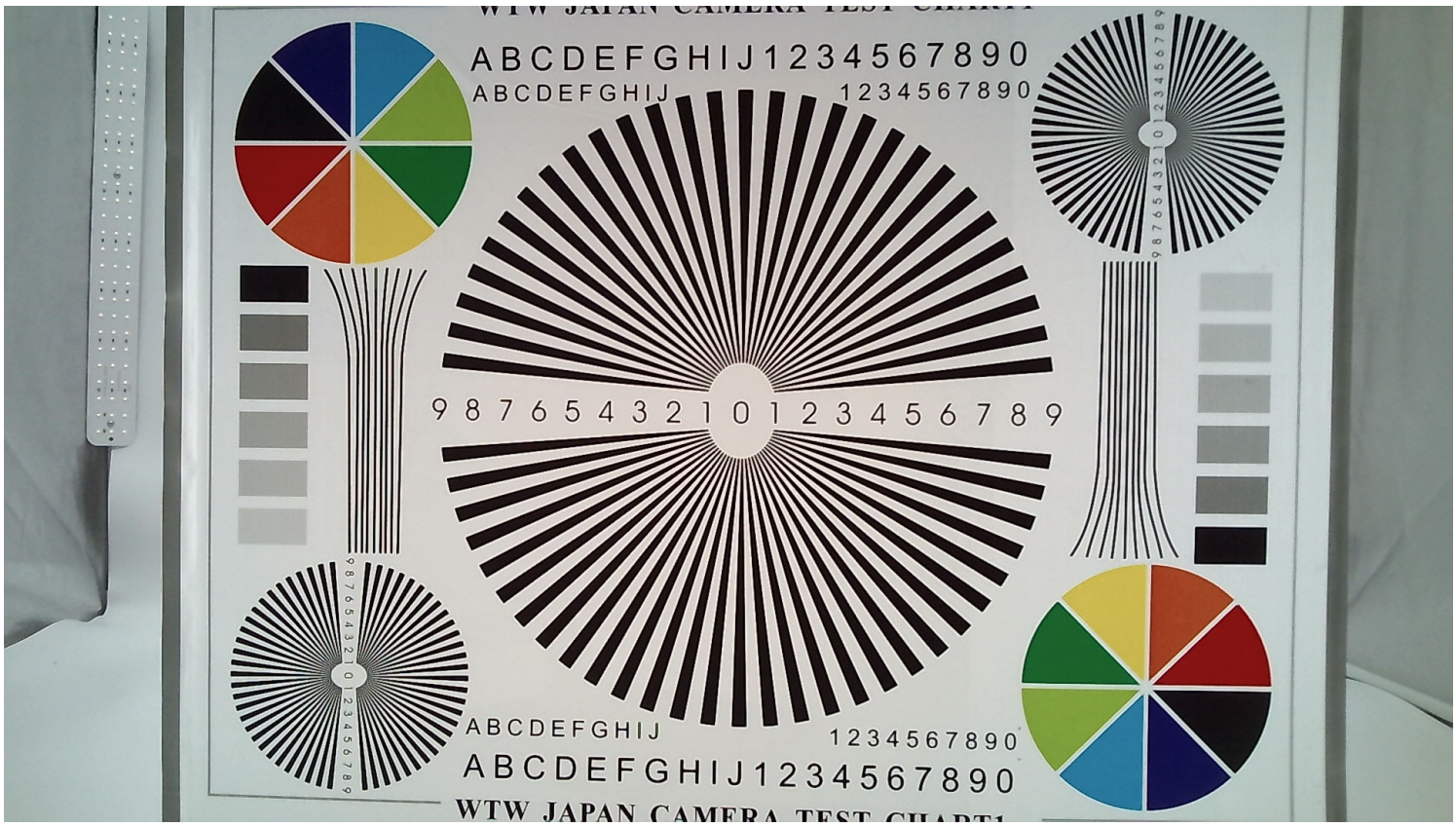


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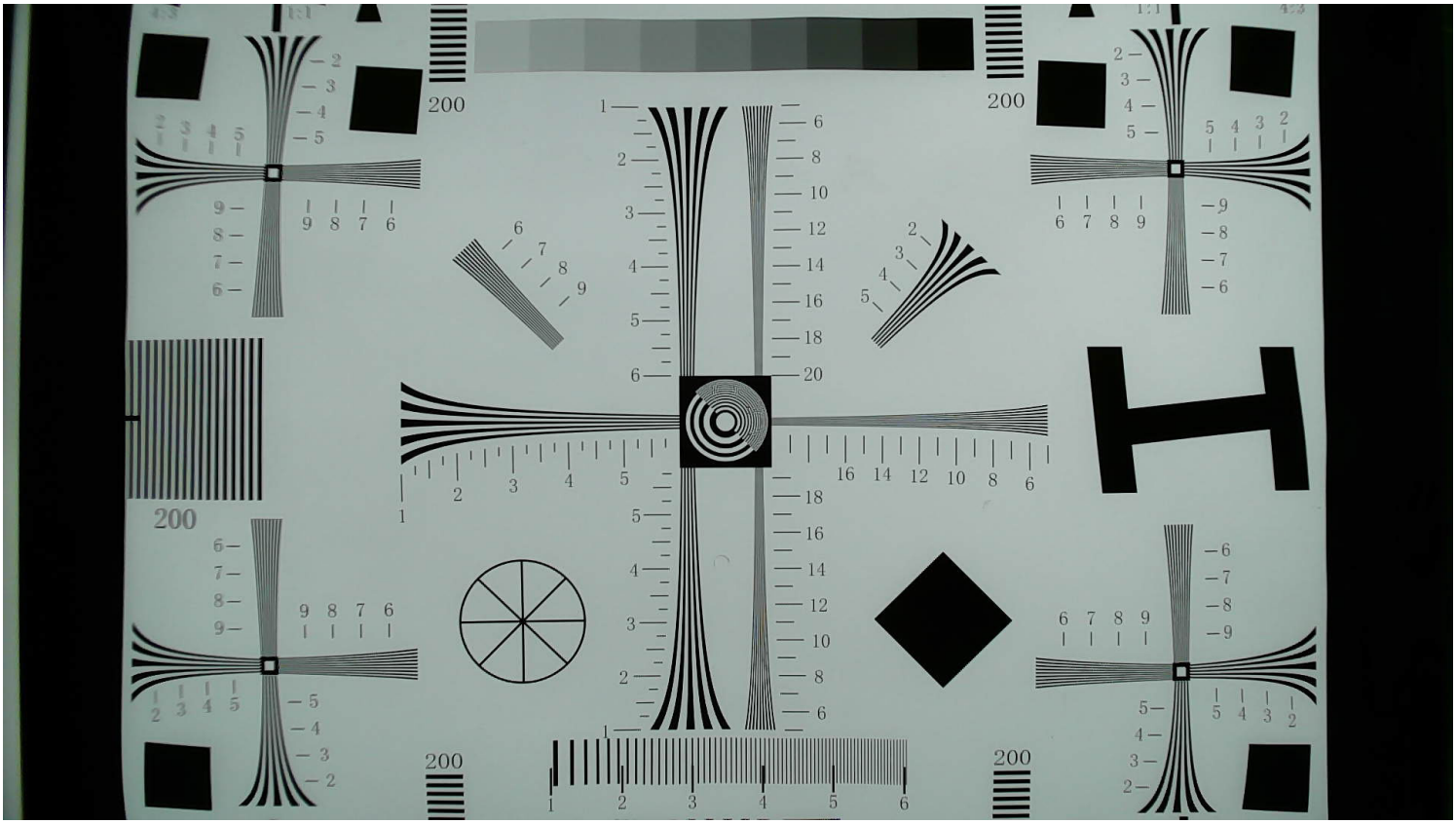

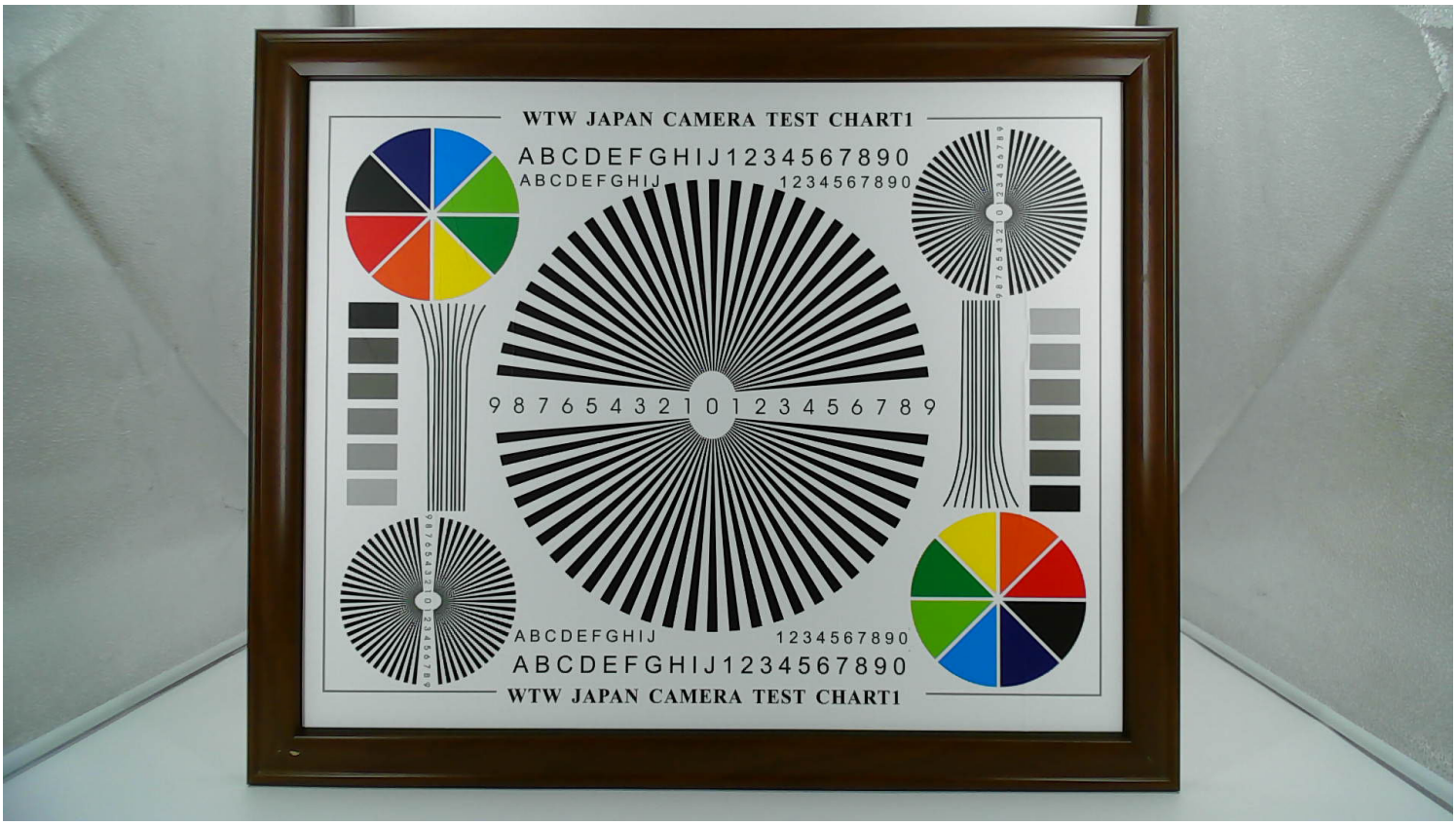


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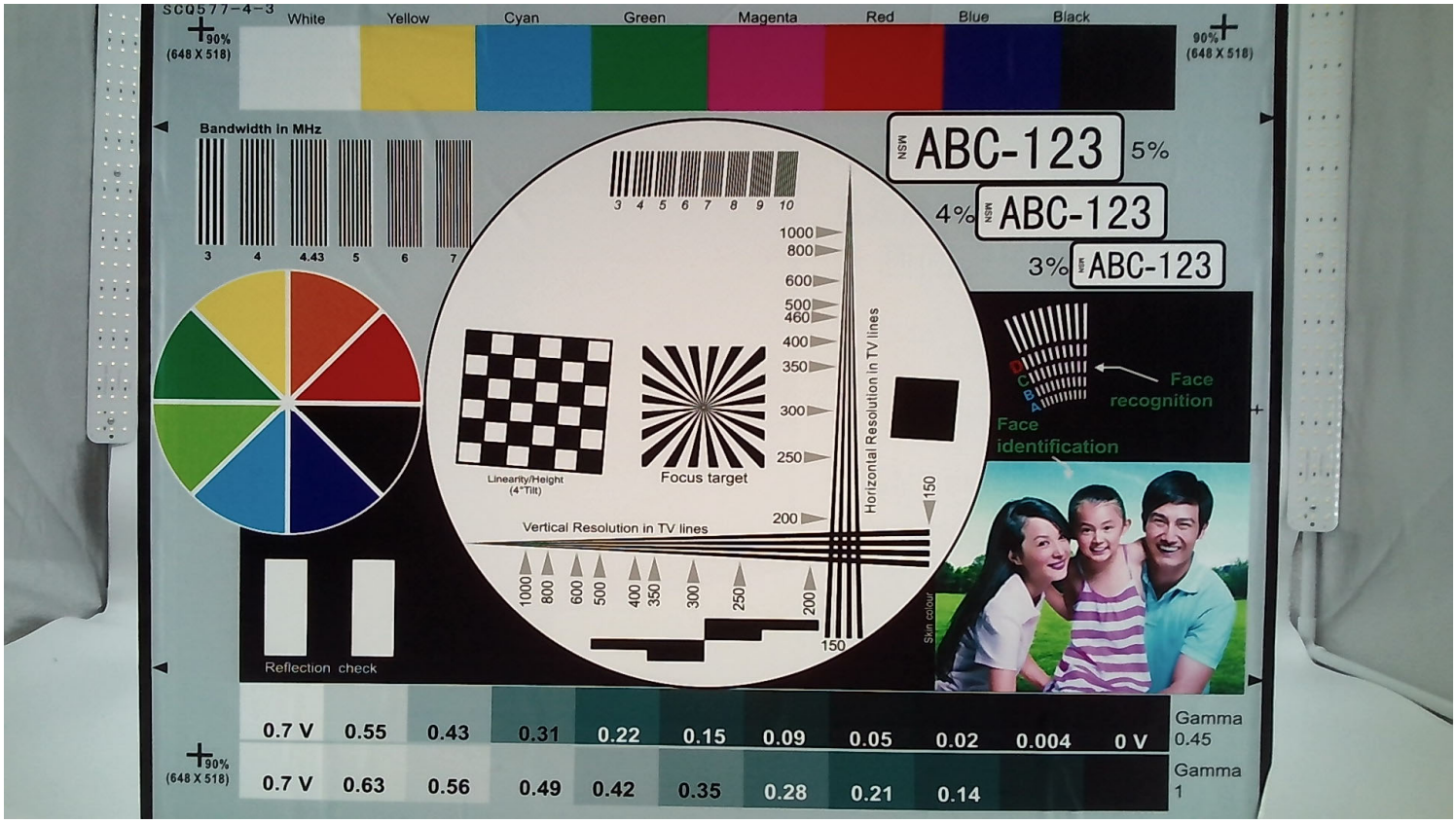


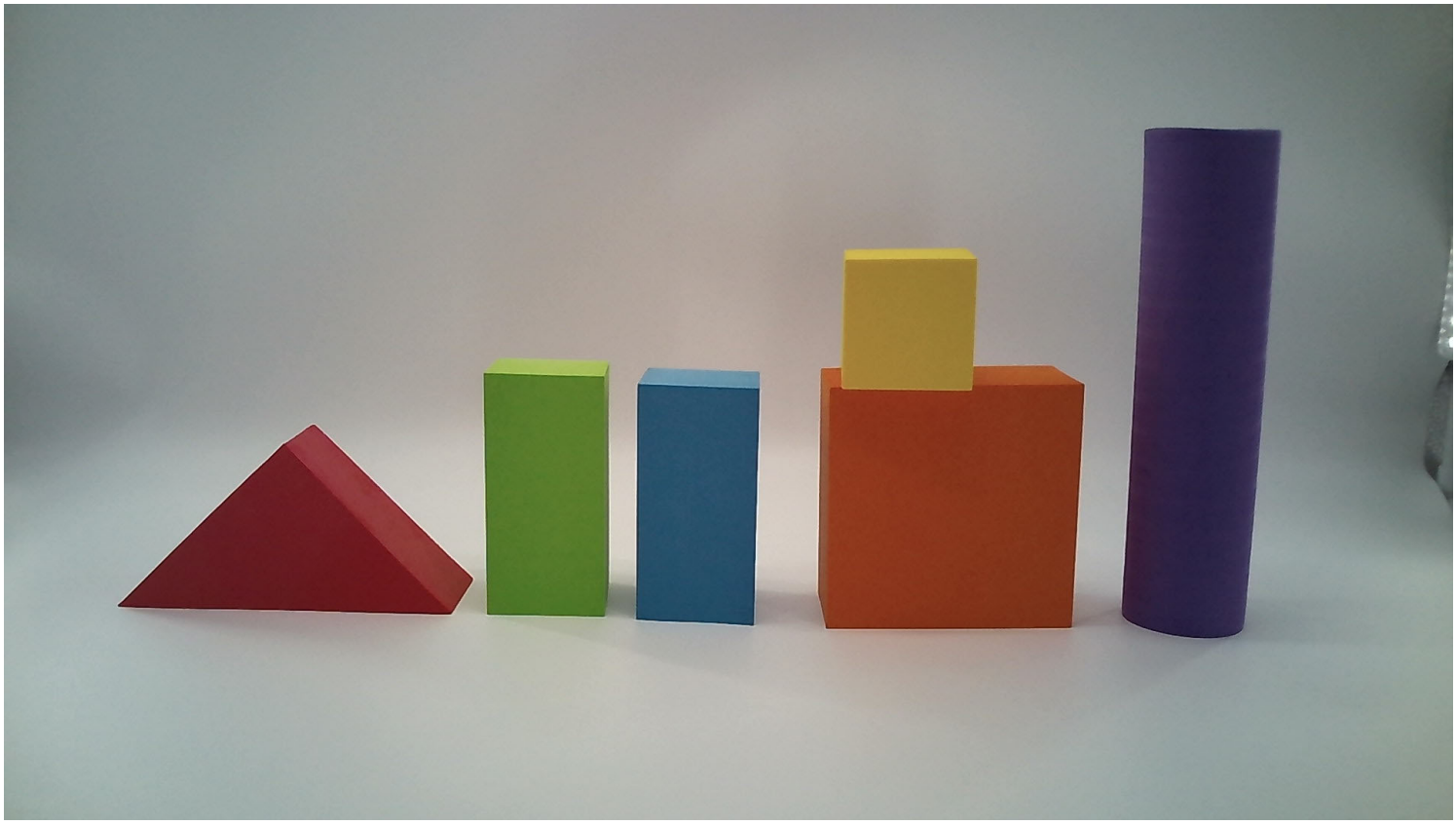

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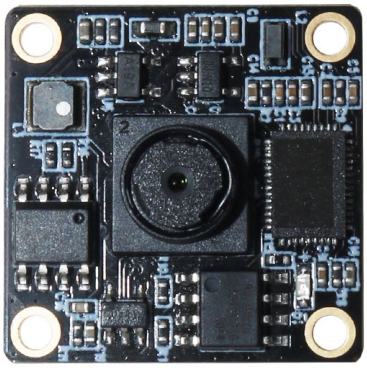

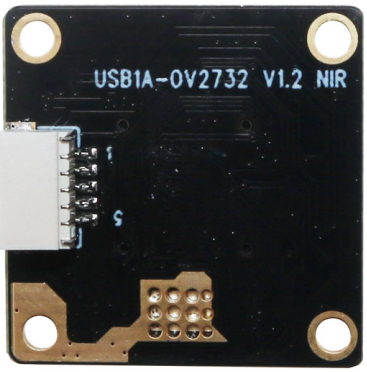


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| Audio (Optional) | None |
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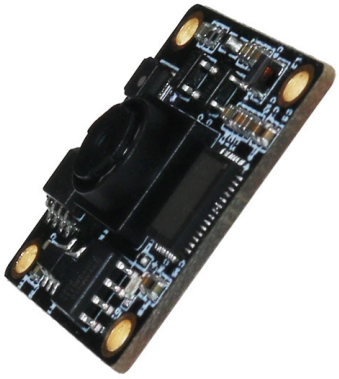

Bottom View

Mating Connector

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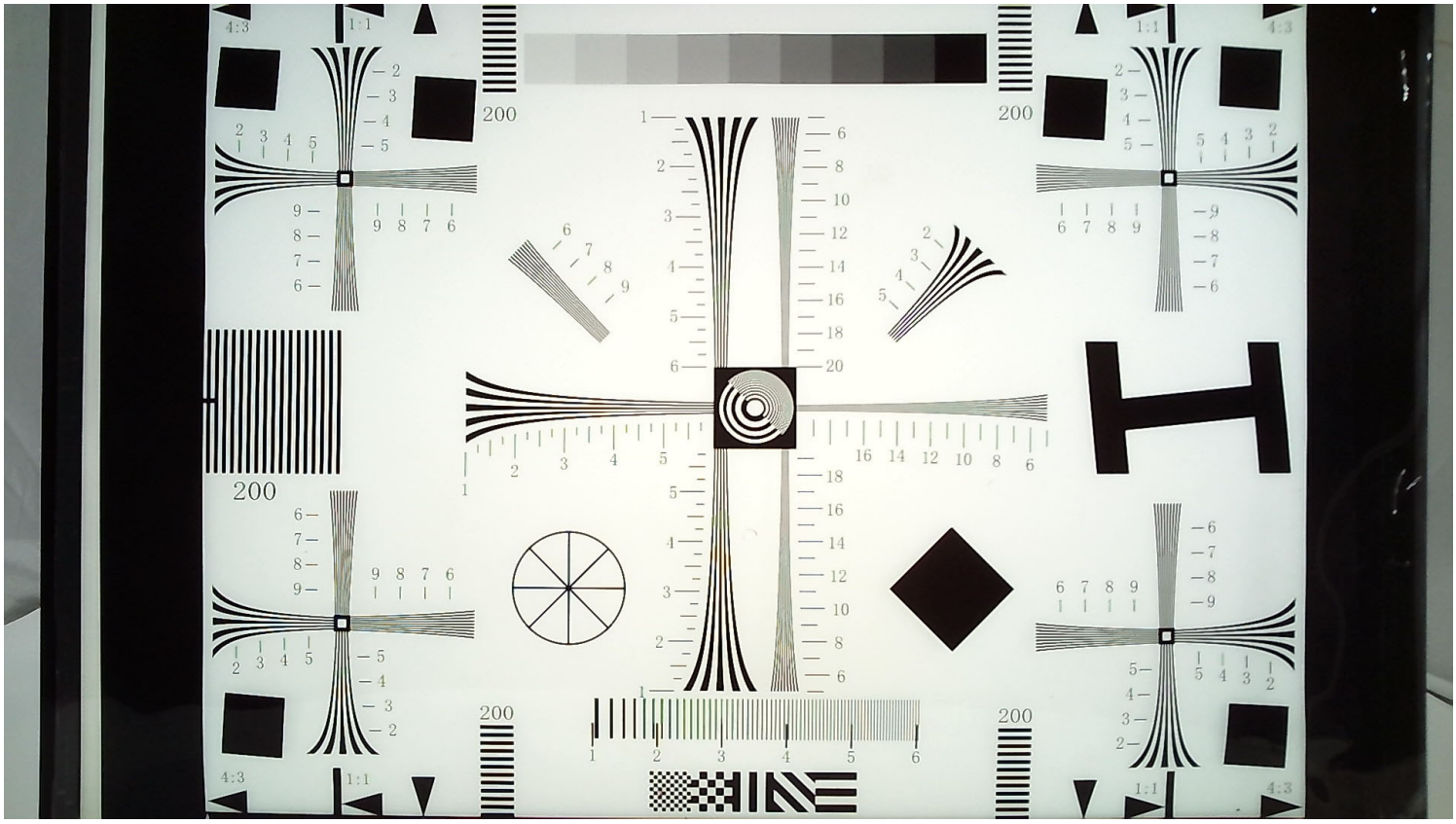

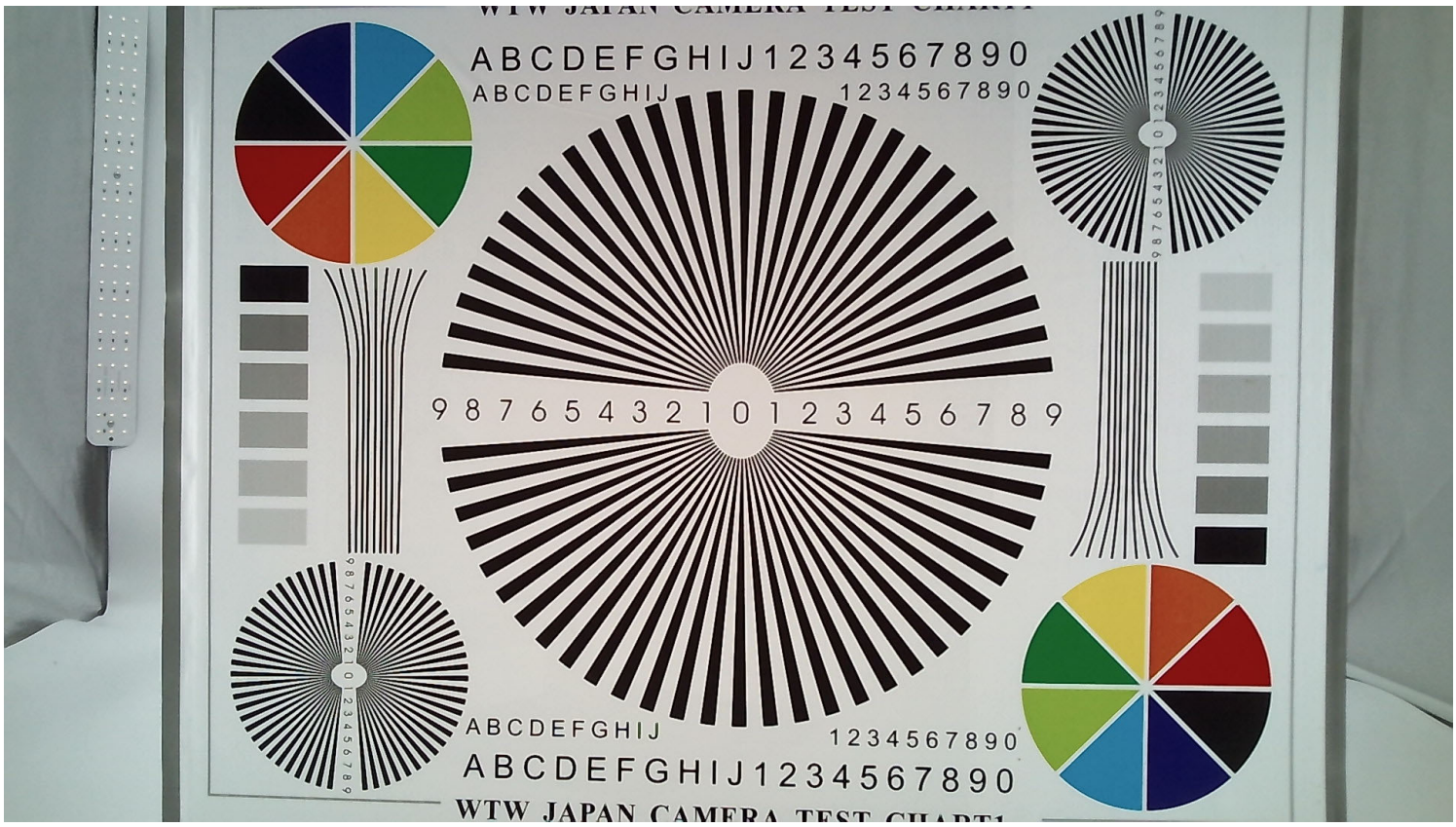


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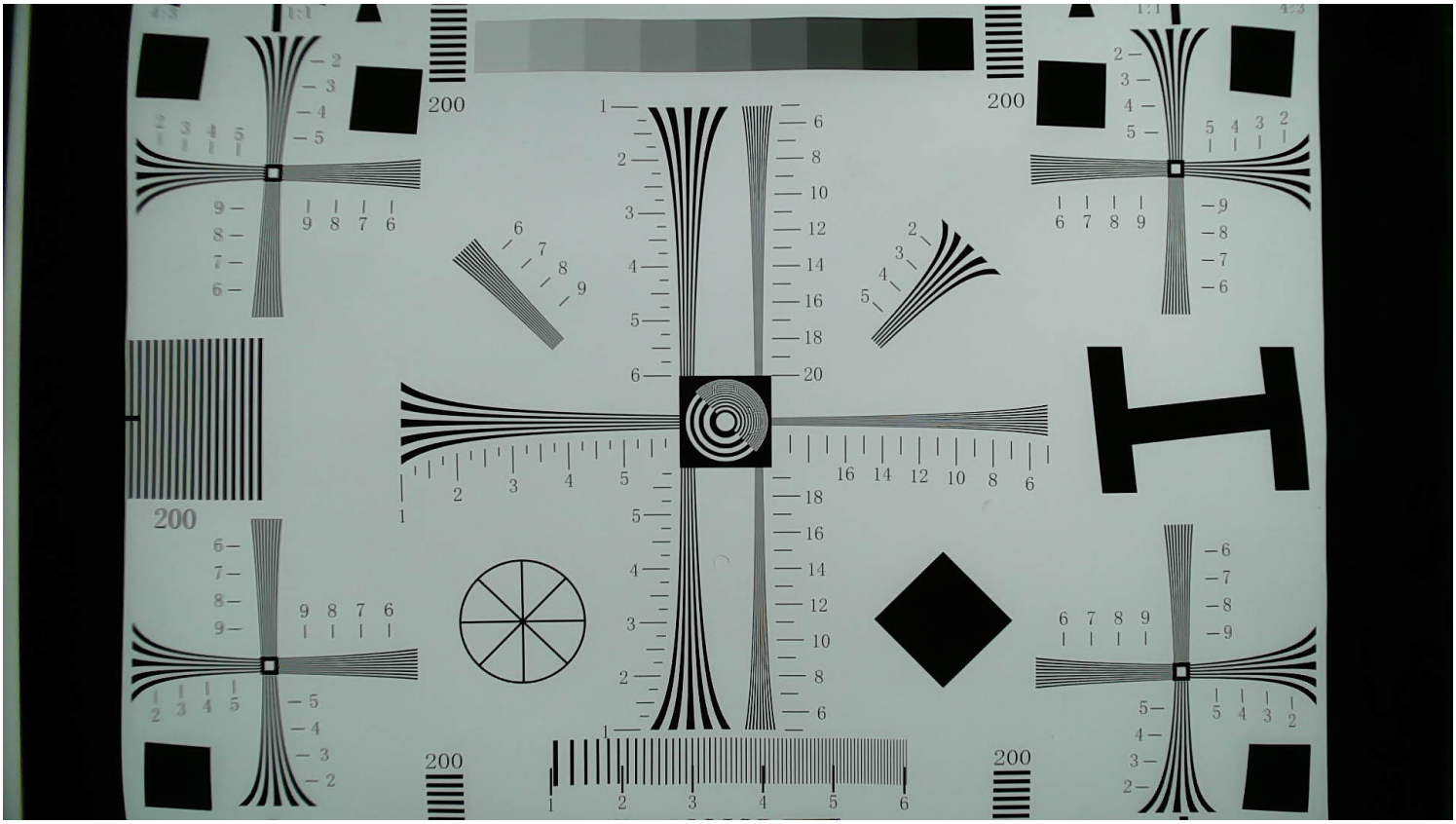

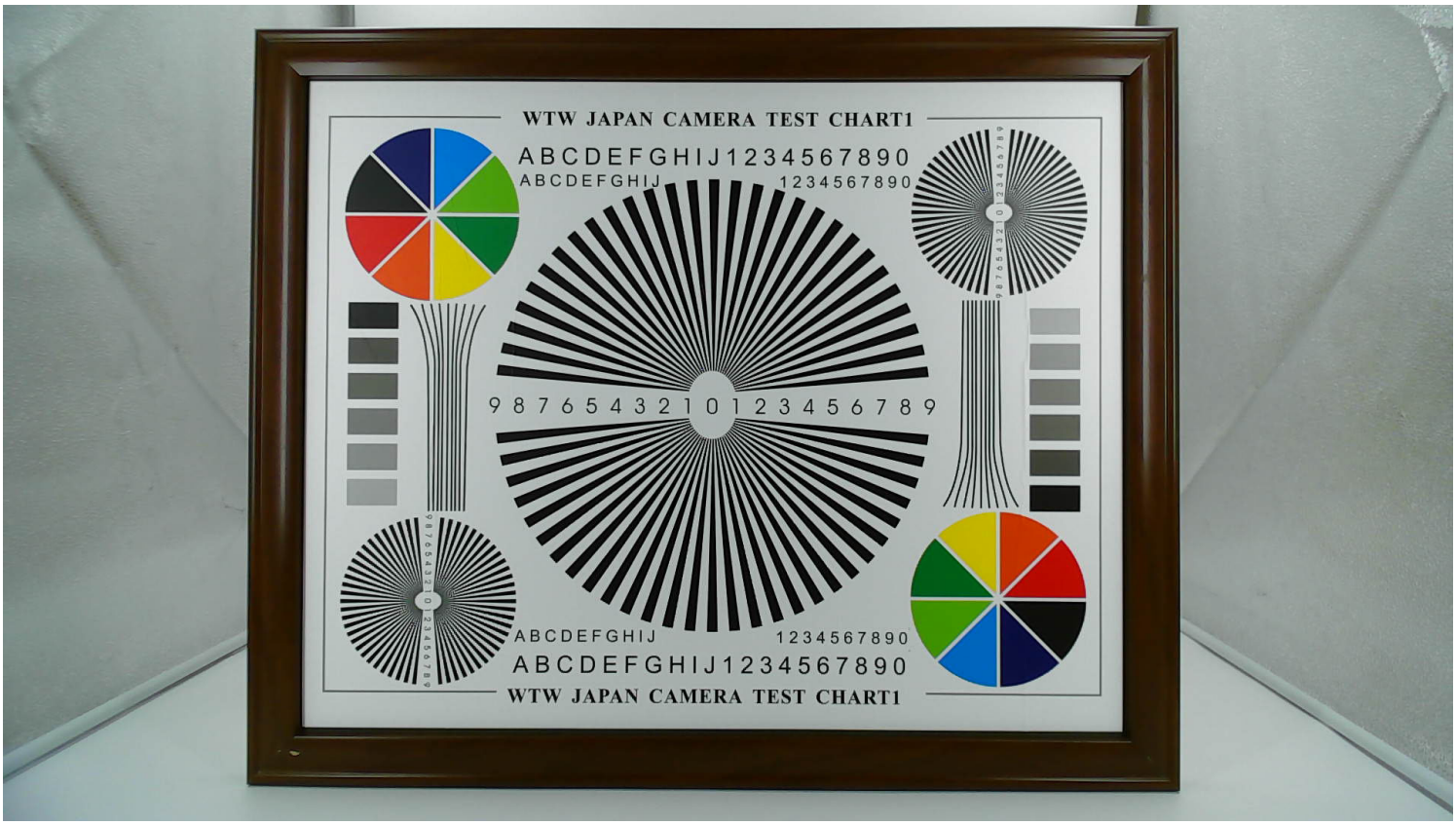


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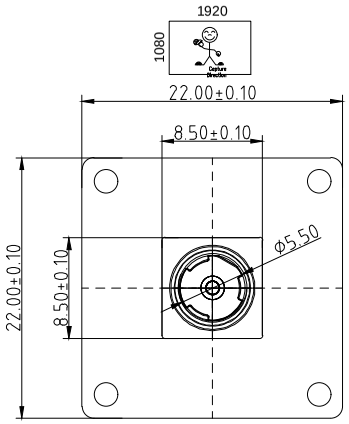
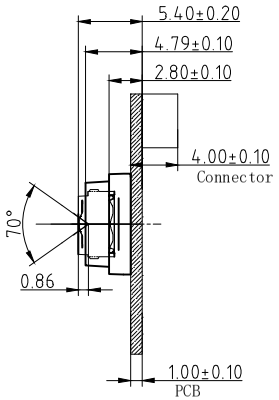
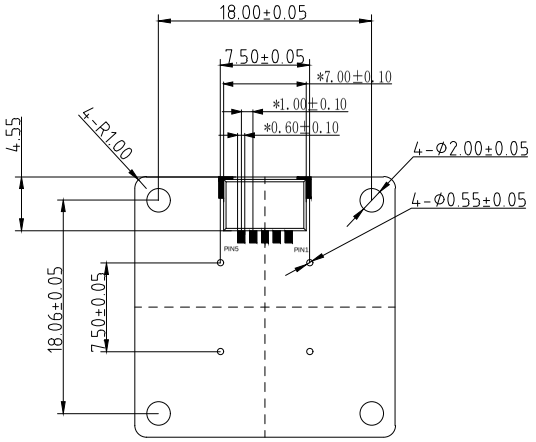
| Version | Information | Date |
|---|---|---|
| V1.0 | First Version | 3-2-2019 |
| V1.2 | Change lens | 9-26-2021 |




TOP VIEW




SIDE VIEW




BOTTOM VIEW

Connector Pin Assignment
1. VCC5V
2. D+
3. D-
4. GND
5. GND

## Parameters:

### 1、Sensor specification:

Image Sensor: OV2732
Pixel: 2um×2um
Lens Type: 1/4
Important Voltage Description: Power 5V

### 2、Lens specification:

FOV: 70°
F/NO.: 2.8
TV distortion: <1.0%
Focal length: 3.2mm
Composition: 4P

| | | | | | |
|---|---|---|---|---|---|
| Designed By | Kevin | Model Name: | | | |
| Checked By | Aouly_Yan | Projection Type: Third Angle | Unit: mm | Material: ---------- | |
| | | | Scale: 1:1 | Sheet: 1 of 1 | Version: 1/0 |

# OV2732 1080p product brief

## Low-Power 1080p High Definition PureCel® Sensor for Security Applications

lead free

available in a lead-free package

OmniVision's OV2732 is a compact and power-efficient PureCel® image sensor designed for IoT-based residential and commercial monitoring systems. The OV2732 captures quality images and videos with staggered high dynamic range (HDR), ensuring excellent scene reproduction in all lighting environments. The sensor features frame sync for use in multi-camera or 360-degree camera systems and supports ultra-low power mode (ULPM) and an ambient light sensor (ALS), making it particularly well-suited for battery-powered security applications.

Built on OmniVision's PureCel® technology, the 1/4-inch OV2732 captures 1080p high definition (HD) video at 60 frames per second (fps), 720p HD video at 90 fps, and VGA resolution video at 120 fps. The OV2732 delivers crisp images and video, even in challenging low-light conditions.

Find out more at www.ovt.com.

OmniVision

# OV2732

## Applications

- Internet of Things (IoT)
- High-end Video Conferencing
- Security
- Lifestyle Camera
- Home Monitoring

## Ordering Information

- **OV02732-H57A**
  (color, lead-free, 57-pin CSP4)

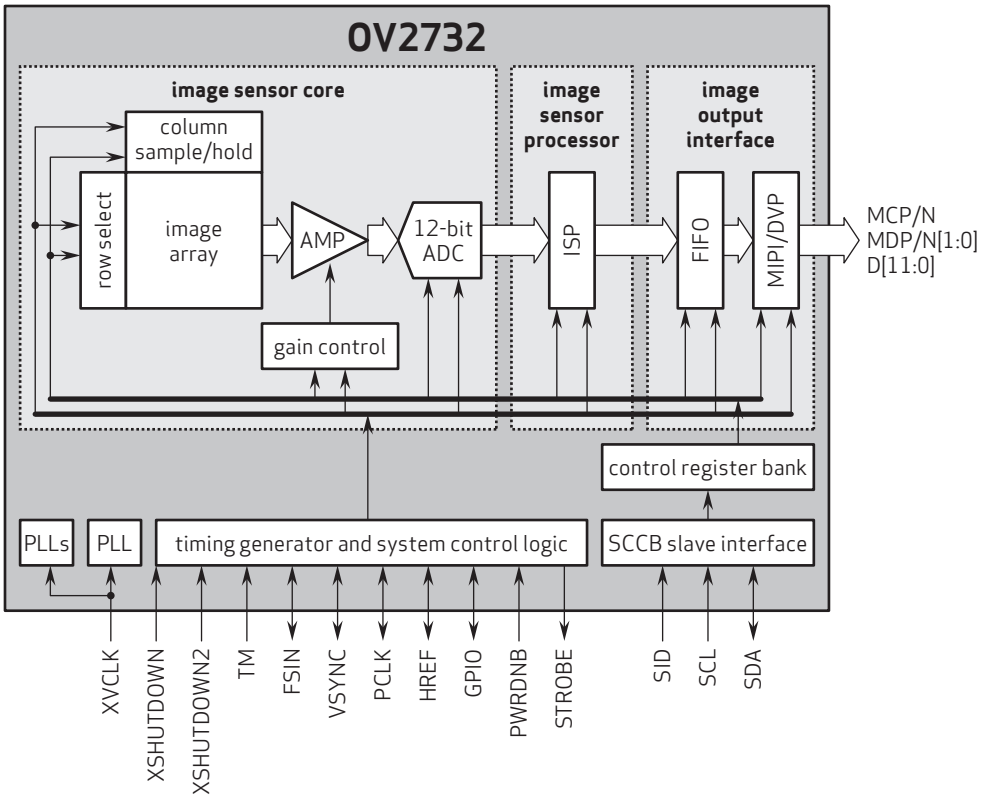
## Product Features

- programmable controls:
  - gain
  - exposure
  - frame rate
  - image size
  - horizontal mirror
  - vertical flip
  - cropping
  - windowing
- automatic image control functions:
  - black level calibration (BLC)
- serial camera control bus (SCCB)
- defective pixel correction (DPC)
- digital video port (DVP) parallel output interface
- support for two lane MIPI interface (up to 800 Mbps)
- support for image sizes:
  - 1080p @ 60 fps
  - 720p @ 90 fps
  - VGA @ 120 fps
  - QVGA @ 240 fps, and more
- support for light sensing mode (LSM)
- support for staggered 2 frame HDR
- support for black sun cancellation
- on-chip phase lock loop (PLL)

## Product Specifications

- **active array size:** 1920 x 1080
- **power supply:**
  - **core:** 1.2V
  - **analog:** 2.8V
  - **I/O:** 1.8V
- **power requirements:**
  - **active:** 110 mW
- **temperature range:**
  - **operating:** -40°C to +85°C junction temperature
  - **stable image:** 0°C to +60°C junction temperature
- **output interfaces:**
  two-lane MIPI / DVP parallel
- **output formats:** 10/12-bit RAW RGB
- **lens size:** 1/4"
- **lens chief ray angle:** 12° linear
- **input clock frequency:** 6 - 27 MHz
- **scan mode:** progressive
- **maximum image transfer rate:**
  - **1080p:** 60 fps
  - **720p:** 90 fps
  - **VGA:** 120 fps
  - **QVGA:** 240 fps
- **shutter:** rolling shutter
- **maximum exposure interval:**
  1184 × $t_{ROW}$
- **pixel size:** 2 µm x 2 µm
- **image area:**
  3868 µm x 2190 µm
- **package dimensions:**
  5174 µm x 3680 µm

## Functional Block Diagram





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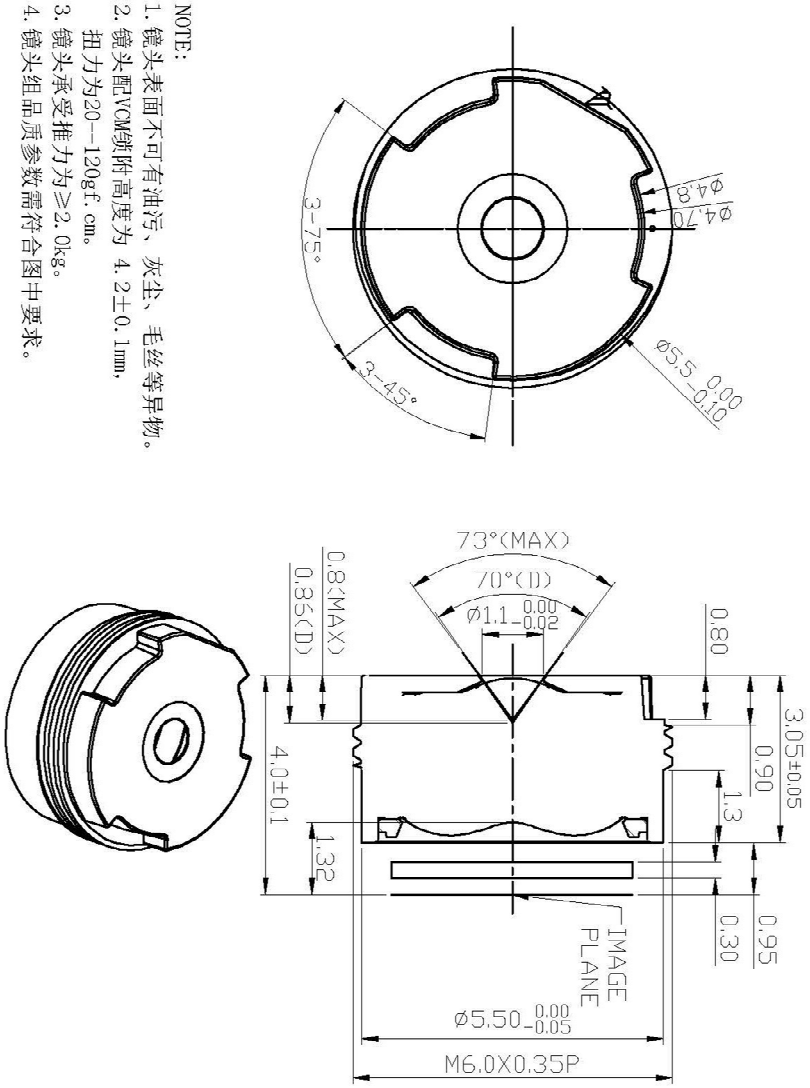
Version 1.1, October, 2016

# YDS-LENS-M5182

| SPECIFICATION | | |
|---|---|---|
| 1. SENSOR SIZE | 1/4" (5M COB) | |
| 2. MAX IMAGE CIRCLE | **Ø4.85mm** | |
| 3. TOTAL TRACK | 4.0±0.1mm | |
| 4. EFL | 3.2mm | |
| 5. OPTICAL BFL | 1.32mm | |
| 6. MECHANICAL BFL | 0.96mm | |
| 7. F/NO | 2.8±5% | |
| 8. VIEW OF FIELD | VERTICAL | 45.3° (Y=1.36) |
| | HORIZONTAL | 58.6° (X=1.81) |
| | DIAGONAL | 70.0° (Y=2.26) |
| 9. OPTICAL DISTORTION | <1.0% | |
| 10. TV DISTORTION | <1.0% | |
| 11. RELATIVE ILLUMINATION | >42.2% | |
| 12. CONSTRUCTION | 4P | |
| 13. CHIEF RAY ANGLE | <25° | |
| 14. CUT FREQUENCY AT 50% | \ | |
| 15. THREAD | M6.0X0.35P | |
| 16. IMAGE QUALITY | AXIS | 330线/mm |
| | 0.7Y | 200线/mm |
| 17. APPEARANCE QUALITY (Scratch/Dig) | CENTER | 20/10 |
| | EDGE | 40/20 |

NOTE:

1. 镜头表面不可有油污、灰尘、毛丝等异物。
2. 镜头配VCM缘附高度为 4.2±0.1mm，
   扭力为20--120gf.cm。
3. 镜头承受推力为≥2.0kg。
4. 镜头组品质参数需符合图中要求。




| NO | MODIFY CONTENT | NAME | DATE |
|---|---|---|---|
| 1 | 光圈外径由Ø5.54改为Ø5.50(公差+0.00-0.10) | tomlin | 2016-12-05 |
| 2 | | | |
| 3 | | | |
| 4 | | | |

ANGLE

| | RANGE | DIM |
|---|---|---|
| ANGLE | ±0.5° | |
| X.XXX | ±0.010 | |
| X.XX | ±0.05 | |
| X.X | ±0.1 | |

UNIT: m m | MATERIAL | SCALE: 10 : 1

SURFACE | FINISH

| | BORDER | NAME | DATE |
|---|---|---|---|
| DRAWING | A4 | tomlin | 2016-12-05 |
| CHECKED | 3Y | | |
| APPROVED | 3Y | | |

OPTICAL NO. | REV. A-01 | REMARK



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**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 |
| VSYNC XVS FSYNC | 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 |



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# YDS CAMERA MODULE

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**Cameras Applications**

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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<br>Low -20°C 0.5 Hours<br>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<br>60 Seconds<br>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<br>Cycling in 24 Hours | Power Switch | Electrically Functional |
| | USB Connector | On/Off 250 Times | Plug and Unplug | Electrically Functional |

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**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 |

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# YDS CAMERA MODULE

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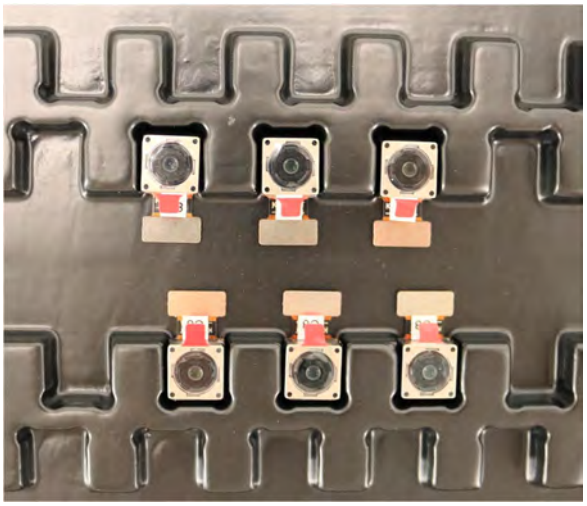
## YDSCAM Package Solutions

YDS Camera Module

Complete with Lens Protection Film

Tray with Grid and Space

Place Cameras on the Tray



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# YDS CAMERA MODULE

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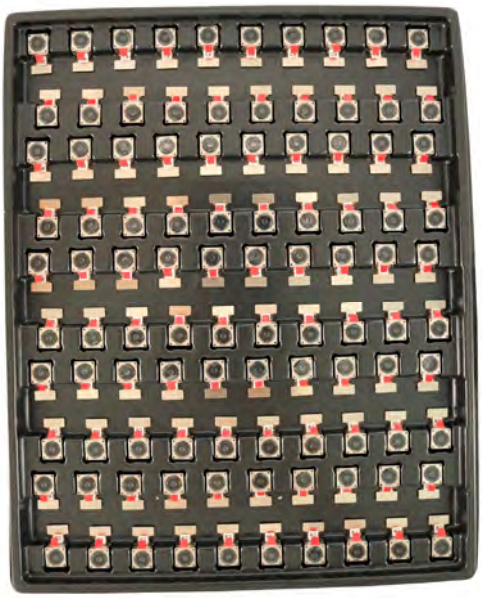
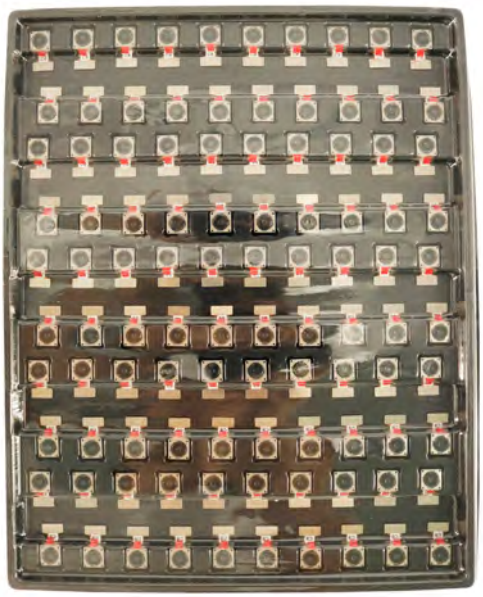
## YDSCAM Package Solutions

Full Tray of Cameras



Cover Tray with Lid



Place Tray into Anti-Static Bag

Vacuum the Anti-Static Bag

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# YDSCAM Package Solutions

**Sealed Vacuum Anti-Static Bag with Labels**

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

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## 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

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# YDS CAMERA MODULE

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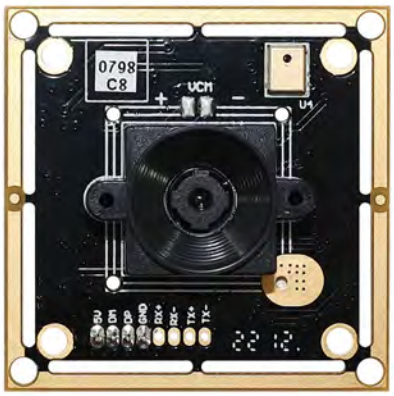
## YDSCAM Package Solutions

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

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## 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

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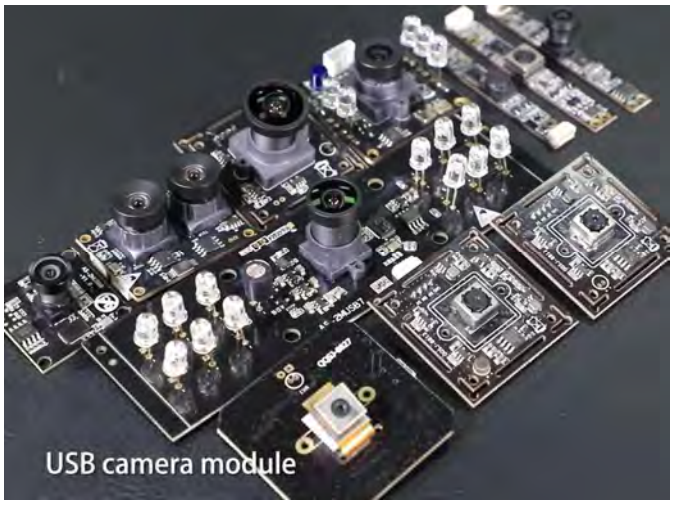
**Company YDSCAM**

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 subsequential events.

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**YDS Strength**

Powerful Factory

Professional Service

Promised Delivery

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