

YDS-M7MA-OV5640-1B V4.3 NLH

5MP OmniVision OV5640-1B MIPI Interface Auto Focus Camera Module No Lens and Holder





Front View

Back View

Specifications

| Camera Module No. | YDS-M7MA-OV5640-1B V4.3 NLH |
|--------------------------|-----------------------------|
| Resolution | 5MP |
| Image Sensor | OV5640-1B |
| Sensor Type | 1/4" |
| Pixel Size | 1.4 um x 1.4 um |
| Pixel | 2592 x 1944 |
| Module Size | 15.81 x 8.50 mm |
| Module Type | Auto Focus |
| Interface | MIPI |
| Auto Focus VCM Driver IC | None |
| Lens Type | No Lens and No Holder |
| Operating Temperature | -30°C to +70°C |
| Mating Connector | DF30FC-30DS-0.4V |

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YDS-M7MA-OV5640-1B V4.3 NLH

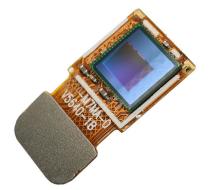
5MP OmniVision OV5640-1B MIPI Interface Auto Focus Camera Module No Lens and Holder

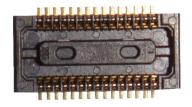


Top View



Side View





Bottom View

Mating Connector

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| Α | В | С | D | E | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------|------------------------------------------------------------|------------------------------------------------------------------|-----------------|
| ROHS | | | Version | Information | Date |
| | | | V2.0 | Change lens and VCM | 2015-12-17 |
| PIN NAME | | | V3.0 | Change the capture direction | 2016-02-17 n |
| 1 AFVDD2.8V | | | V3.3 | VCM upgrade | 2019-08-20 |
| 2 AVDD2.8V | | | V4.3 | Remove lens and VCM,shorten FPC leng | th 2022-3-21 |
| 3 SCL 4 SDA 5 RESET 6 PWDN 7 DOVDD1.8V 8 DVDD1.5V 9 GND 10 XCLK 11 DGND 12 DGND 13 MDNO 14 MCP 15 MDPO 16 MCN 17 DGND 18 DGND | 2592 | | 7.80±0.0 7.00±0.1 7.00±0.1 2.3 0.4.2 BOTTOM | 5 9.00 9.00 8.00 8.00 Double-sided Foam T=0.3 | 1 |
| 20 MDP1 21 DGND 22 MDN1 23 DGND | | | Dorrom | | |
| 24 DGND Parameters: 1 Sensor specific Image Sensor: OV5640 Pixel: 1.4um×1.4um Lens Type: 1/4 | -1B | Designed By | | odel Name: M7MA-OV5640 rojection Type: Unit: Material: | -1B V4.3 NLH |
| Important Voltage Desc (external power supply) | | | , , | mm Scale: Sheet: Third Angle 1:1 1 of 1 | Version: 1/0 |
| A | В | С | D | E | J |

OV5640 5-megapixel product brief





available in a lead-free package

1/4-inch, 5-Megapixel SOC Image Sensor Optimized for High-Volume Mobile Markets

The OV5640 delivers a complete 5-megapixel camera solution on a single chip, aimed at offering cost efficiencies that serve the highvolume autofocus (AF) camera phone market. The system-on-achip (SOC) sensor features OmniVision's 1.4 micron OmniBSI™ backside illumination architecture to deliver excellent pixel performance and best-in-class low-light sensitivity, while enabling ultra compact camera module designs of 8.5 mm x 8.5 mm with <6 mm z-height. The OV5640 provides the full functionality of a complete camera, including anti-shake technology, AF control, and MIPI while being easier to tune then two-chip solutions, making it an ideal choice in terms of cost, time-to-market and ease of platform integration.

The OV5640 enables 720p HD video at 60 frames per second (fps) and 1080p HD video at 30 fps with complete user control over formatting and output data transfer. The 720p/60 HD video is captured in full field of view (FOV) with 2 x 2 binning, which doubles the sensitivity and improves the signal-to-noise ratio (SNR). Additionally, a unique post-binning re-sampling filter function removes zigzag artifacts around slant edges and minimizes spatial artifacts to deliver even sharper, crisper

color images. To further improve camera performance and user experience, the OV5640 features an internal anti-shake engine for image stabilization, and it supports Scalado[™] tagging for faster image preview and zoom.

The OV5640 offers a digital video port (DVP) parallel interface and a high-speed dual lane MIPI interface, supporting multiple output formats. An integrated JPEG compression engine simplifies data transfer for bandwidth-limited interfaces. The sensor's automatic image control functions include automatic exposure control (AEC), automatic white balance (AWB), automatic band filter (ABF), 50/60 Hz automatic luminance detection, and automatic black level calibration (ABLC). The OV5640 delivers programmable controls for frame rate, AEC/AGC 16-zone size/position/weight control, mirror and flip, cropping, windowing, and panning. It also offers color saturation, hue, gamma, sharpness (edge enhancement), lens correction, defective pixel canceling, and noise canceling to improve image quality.

Find out more at www.ovt.com.



applications

- cellular phones
- toys
- PC multimedia
- digital still cameras

features

- 1.4 µm x 1.4 µm pixel with OmniBSI technology for high performance (high sensitivity, low crosstalk, low noise, improved quantum efficiency)
- optical size of 1/4"
- automatic image control functions: automatic exposure control (AEC), automatic white balance (AWB), automatic band filter (ABF), automatic 50/60 Hz luminance detection, and automatic black level calibration (ABLC)
- programmable controls for frame rate, AEC/AGC 16-zone size/position/weight control, mirror and flip, cropping, windowing, and panning
- image quality controls: color saturation, hue, gamma, sharpness (edge enhancement), lens correction, defective pixel canceling, and noise canceling
- support for output formats: RAW RGB, RGB565/555/444, CCIR656, YUV422/420, YCbCr422, and compression
- support for video or snapshot operations
- support for internal and external frame synchronization for frame exposure mode

key specifications (typical)

- active array size: 2592 x 1944
 - **power supply:** core: 1.425 ~ 1.675V (with embedded 1.5V regulator) analog: 2.6 ~ 3.0V (2.8V typical) I/O: 1.8V / 2.8V
- power requirements: active: 140 mA standby: 20 µA
- temperature range: operating: -30°C to 70°C junction temperature (see table 8-2) stable image: 0°C to 50°C junction temperature (see table 8-2)
- output formats: 8-/10-bit RGB RAW output
- lens size: 1/4"
- lens chief ray angle: 24° (see figure 10-2)

ordering information

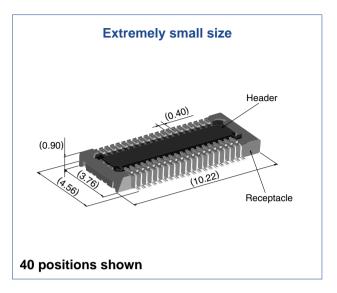
- OV05640-A71A-1B (color, lead-free) 71-pin CSP
- support for LED and flash strobe mode
- support for horizontal and vertical sub-sampling, binning
- support for minimizing artifacts on binned image
- support for data compression output
- support for anti-shake
- standard serial SCCB interface
- digital video port (DVP) parallel output interface and dual lane MIPI output interface
- embedded 1.5V regulator for core power
- programmable I/O drive capability, I/O tri-state configurability
- support for black sun cancellation
- support for images sizes: 5 megapixel, and any arbitrary size scaling down from 5 megapixel
- support for auto focus control (AFC) with embedded AF VCM driver
- embedded microcontroller
- suitable for module size of 8.5 x 8.5 x <6mm with both CSP and RW packaging
- input clock frequency: 6~27 MHz
- max S/N ratio: 36 dB
- dynamic range: 68 dB @ 8x gain
- maximum image transfer rate: QSXGA (2592x1944): 15 fps 1080p: 30 fps 1280x960: 45 fps 720p: 60 fps VGA (640x480): 90 fps
- sensitivity: 600 mV/Lux-sec
- shutter: rolling shutter / frame exposure
- maximum exposure interval: 1964 x t_{ROW}
- pixel size: 1.4 µm x 1.4 µm
- dark current: 8 mV/s @ 60°C junction temperature
- image area: 3673.6 μm x 2738.4 μm
- package dimensions: 5985 µm x 5835 µm



0.4 mm Pitch, 0.9 mm Height, Board-to-Board / Board-to-FPC Connectors

DF30 Series





Overview

Continuous miniaturization and increased component density on PCB created demand for extremely low profile connectors. This series is addition of a new extremely low profile connectors to Hirose's wide range of high reliability board-to-board/board-to-FPC connection solutions.

Features

1. Contact reliability

Concentration of the contact's normal forces at the single point assures good contact wipe and electrical reliability, while confirming the fully mated condition with a definite tactile click.

2. Self alignment

Recognizing the difficulties of mating extremely small connectors in limited spaces the connectors will self align in horizontal axis within 0.3 mm.

3. Automatic board placement

Packaged on tape-and-reel the plug and headers have sufficiently large flat areas to allow pick-up with vacuum nozzles of automatic placement equipment.

4. Variety of contact positions and styles

Available in standard contact positions of: 20, 22, 24, 30, 34, 40, 50, 60, 70 and 80 with and without metal fittings. Addition of metal fittings does not affect external dimensionsof the connectors.

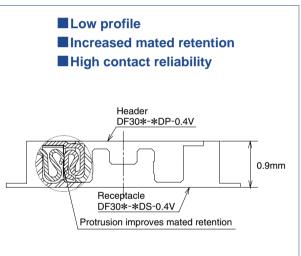
Smaller contact positions are also available.

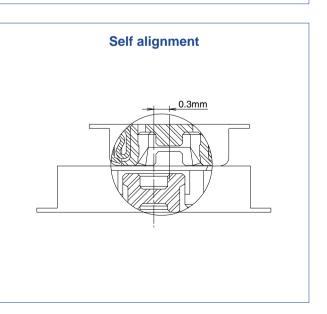
5. Support for continuity test connector

Connectors which have increased insertion and removal durability are available for continuity tests. Contact your Hirose sales representative for details.

Applications

Čellular phones, PDA's, mobile computers, digital cameras, digital video cameras, and other devices demanding high reliability connections in extremely limited spaces.





Product Specifications

| | Rated current 0.3A | Operating temperature range | -35℃ to 85℃ (Note 1) | Storage temperature range | 10°C to 60°C (Noto 2) |
|--------|----------------------|-----------------------------|--------------------------------|---------------------------|-----------------------|
| Rating | Rated voltage 30V AC | 1 0 1 0 | : Relative humidity 20% to 80% | | () |
| | | | | | |

| Item | Specification | Conditions |
|-------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1. Insulation resistance | 50 MΩ min. | 100V DC |
| 2. Withstanding voltage | No flashover or insulation breakdown. | 100V AC / one minute |
| 3. Contact resistance | 100 mΩ max. | 100 mA |
| 4. Vibration | No electrical discontinuity of 1 μ s or more | Frequency: 10 to 55 Hz, single amplitude of 0.75mm, 2 hours, 3 axis |
| 5. Humidity | Contact resistance: 100 m Ω max. Insulation resistance: 25 M Ω min. | 96 hours at temperature of $40^{\circ}C\pm 2^{\circ}C$ and RH of 90% to 95% |
| 6. Temperature cycle | Contact resistance: 100 m Ω max. Insulation resistance: 50 M Ω min. | Temperature: -55 °C→ $+5$ °C to $+35$ °C→ $+85$ °C→ $+5$ °C to $+35$ °C Duration: 30 → 10 → 30 → 10 (Minutes) 5 cycles |
| 7. Durability (insertions/withdrawals) | Contact resistance: 100 mΩ max. | 50 cycles(Connector for conductivity tests: 500 cycles) |
| 8. Resistance to soldering heat | No deformation of components affecting performance. | Reflow: At the recommended temperature profile Manual soldering: 300°C for 3 seconds |

Note 1: Includes temperature rise caused by current flow.

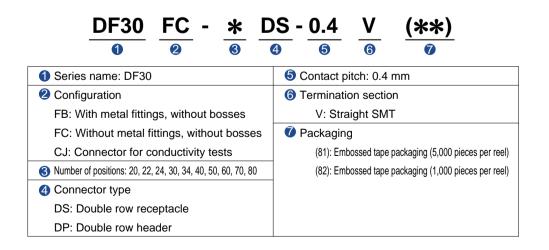
Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating temperature range and humidity range covers non-conducting condition of installed connectors in storage, shipment or during transportation.

Materials and Finishes

| Connectors | Component | Material | Finish | Remarks |
|-------------|----------------|-----------------|-------------------|---------|
| Receptacles | Insulator | LCP | Color : Black | UL94V-0 |
| and | Contacts | Phosphor bronze | Gold plated | |
| Headers | Metal fittings | Phosphor bronze | Tin-cupper plated | |

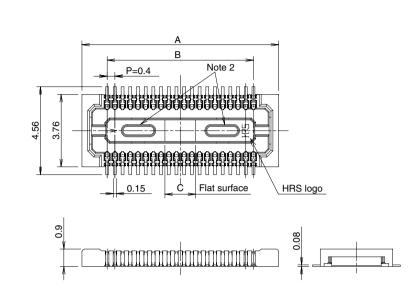
Ordering information

Receptacles and Headers

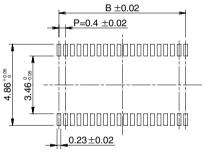


Receptacles (without metal fittings)





Recommended PCB mounting pattern



Recommended solder paste thickness: 120 μm

(81): Embossed tape packaging (5,000 pieces per reel)

[Specification number] -**, (**)

| * Tolerances non- accumulative. Unit: m | | | | | |
|-----------------------------------------|-----------------|--------------------|-------|------|------|
| Part Number | CL No. | Number of contacts | А | В | C |
| DF30FC-20DS-0.4V(**) | CL684-1109-8-** | 20 | 6.22 | 3.6 | 1.2 |
| DF30FC-22DS-0.4V(**) | CL684-1110-7-** | 22 | 6.62 | 4.0 | 1.2 |
| DF30FC-24DS-0.4V(**) | CL684-1111-0-** | 24 | 7.02 | 4.4 | 1.2 |
| DF30FC-30DS-0.4V(**) | CL684-1112-2-** | 30 | 8.22 | 5.6 | 1.2 |
| DF30FC-34DS-0.4V(**) | CL684-1113-5-** | 34 | 9.02 | 6.4 | 1.36 |
| DF30FC-40DS-0.4V(**) | CL684-1078-6-** | 40 | 10.22 | 7.6 | 1.6 |
| DF30FC-50DS-0.4V(**) | CL684-1114-8-** | 50 | 12.22 | 9.6 | 2.0 |
| DF30FC-60DS-0.4V(**) | CL684-1082-3-** | 60 | 14.22 | 11.6 | 2.4 |
| DF30FC-70DS-0.4V(**) | CL684-1115-0-** | 70 | 16.22 | 13.6 | 2.8 |
| DF30FC-80DS-0.4V(**) | CL684-1116-3-** | 80 | 18.22 | 15.6 | 3.2 |

Note 1: Order by number of reels.

Note 2: Receptacles with 24 or fewer contacts positions will not have recessed areas.

| 4 | HRS |
|---|-----|
| 4 | |

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Cameras Applications

Y



Automotive Driver Pilot





Video Conference



Live Streaming

Eye Tracker Biometric Detection

Machine Vision

Agricultural Monitor



Night Vision Security

Drone and Sports Eagle Eyes



Interactive Pet Camera

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Camera Module Pinout Definition Reference Chart

| OmniVision Sony Samsung On-Semi Ap | tina 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 DM01N | MIPI 1st data lane negative output |
| MDP0 DP0 MD0P DATA P DM01P | MIPI 1st data lane positive output |
| MDN1 DN1 MD1N DATA2 N DMO2N | MIPI 2nd data lane negative output |
| MDP1 DP1 MD1P DATA2 P DM02P | 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 D00 Y0 | DV/P data output port 0 |
| D1 D01 Y1 | DVP data output port 0 |
| D1 D01 Y1 D2 D02 Y2 | DVP data output port 1 DVP data output port 2 |
| D3 D03 Y3 | |
| | DVP data output port 3 |
| D4 D04 Y4 D5 D05 Y5 | DVP data output port 4 |
| | DVP data output port 5 |
| D6 D06 Y6 | DVP data output port 6 |
| D7 D07 Y7 | DVP data output port 7 |
| D8 D08 Y8 | DVP data output port 8 |
| D9 D09 Y9 | DVP data output port 9 |
| D10 D010 Y10 | DVP data output port 10 |
| D11 D011 Y11 | DVP data output port 11 |

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Camera Reliability Test

| Reliability Inspection Item | | | Testing Mathed | Acceptones Criteria | |
|-----------------------------|--------------------------------|-------------------------------------------------------------------|-------------------------|-------------------------|--|
| Category | | Item | Testing Method | Acceptance Criteria | |
| | Storage | High 60°C 96 Hours | Temperature Chamber | No Abnormal Situation | |
| | Temperature | Low -20°C 96 Hours | Temperature Chamber | No Abnormal Situation | |
| | Operation | High 60°C 24 Hours | Temperature Chamber | No Abnormal Situation | |
| Environmental | Temperature | Low -20°C 24 Hours | Temperature Chamber | No Abnormal Situation | |
| Environmentai | 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 | |
| | Drop Test | Without Package 60cm | 10 Times on Wood Floor | Electrically Functional | |
| | (Free Falling) | With Package 60cm | 10 Times on Wood Floor | Electrically Functional | |
| | Vibration Test | 50Hz X-Axis 2mm 30min | Vibration Table | Electrically Functional | |
| Physical | | 50Hz Y-Axis 2mm 30min | Vibration Table | Electrically Functional | |
| Filysical | | 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 | |
| | | Contact Discharge 2 KV | ESD Testing Machine | Electrically Functional | |
| Electrical | ESD Test | 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 | |



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Camera Inspection Standard

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| Inspection Item | | Inspection Item Inspection Metho | | Standard of Inspection |
|-----------------|----------|----------------------------------|-----------------|--------------------------------------------|
| Category | | Item | пересноп менной | Standard of Inspection |
| | | Color | The Naked Eye | Major Difference is Not Allowed. |
| FP | FPC/ PCB | Be Torn/Chopped | The Naked Eye | Copper Crack Exposure is Not Allowed. |
| | | Marking | The Naked Eye | Clear, Recognizable (Within 30cm Distance) |
| | | Scratches | The Naked Eye | The Inside Crack Exposure is Not Allowed |
| | Holder | Gap | The Naked Eye | Meet the Height Standard |
| Appearance | HOIDEI | Screw | The Naked Eye | Make Sure Screws Are Presented (If Any) |
| | | Damage | The Naked Eye | The Inside Crack Exposure is Not Allowed |
| | | Scratch | The Naked Eye | No Effect On Resolution Standard |
| | Long | Contamination | The Naked Eye | No Effect On Resolution Standard |
| | Lens | Oil Film | The Naked Eye | No Effect On Resolution Standard |
| | | Cover Tape | The Naked Eye | No Issue On Appearance. |
| | | 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 |
| Function | Image | 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 |
| | | Height | The Naked Eye | Follows Approval Data Sheet |
| Dimen | sion | Width | The Naked Eye | Follows Approval Data Sheet |
| Dimen | 131011 | Length | The Naked Eye | Follows Approval Data Sheet |
| | | Overall | The Naked Eye | Follows Approval Data Sheet |

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YDSCAM Package Solutions

YDS Camera Module



Tray with Grid and Space

Complete with Lens Protection Film



Place Cameras on the Tray





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YDSCAM Package Solutions

Full Tray of Cameras

DS



Place Tray into Anti-Static Bag

Cover Tray with Lid



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



Place Foam Sheets and Trays into Box



Seal the Carbon Box



Foam Sheets are Larger Than Trays



Foam Sheets are Tightly Fitting in Box



Label the Carbon Shipping Box



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YDSCAM Package Solutions

USB Camera Module







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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Complete with Lens Protection Film



YDSCAM Package Solutions

Place Camera Sample into Anti-Static Bag





Label the Sample Bags

Place Connectors into Anti-Static Bag



Place Connectors into Reel



Place Samples into the Carbon Box





Place Connectors into the Carbon Box



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YDS

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 <u>www.YDSCAM.com</u>. 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

Y

Powerful Factory



Professional Service



Promised Delivery



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