

your best camera partner

YDS-M9K-MT9M114 V4.1 1.3MP OnSemi MT9M114 DVP Parallel Interface Fixed Focus Camera Module



Front View



**Back View** 

<b>Specifications</b>
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Camera Module No.	YDS-M9K-MT9M114 V4.1	
Resolution	1.3MP	
Image Sensor	MT9M114	
Sensor Type	1/6"	
Pixel Size	1.9 um x 1.9 um	
EFL	2.00 mm	
F.NO	2.40	
Pixel	1296 x 976	
View Angle	75.0°(DFOV) 60.0°(HFOV) 47.0°(VFOV)	
Lens Dimensions	6.00 x 6.00 x 3.54 mm	
Module Size	38.50 x 12.50 mm	
Module Type	Fixed Focus	
Interface	DVP Parallel	
Auto Focus VCM Driver IC	None	
Lens Model	YDS-LENS-TR311B-H211-BD	
Lens Type	650nm IR Cut	
Operating Temperature	-30°C to +70°C	
Mating Connector	FH12-24S-0.5SH	

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**Top View** 

Side View

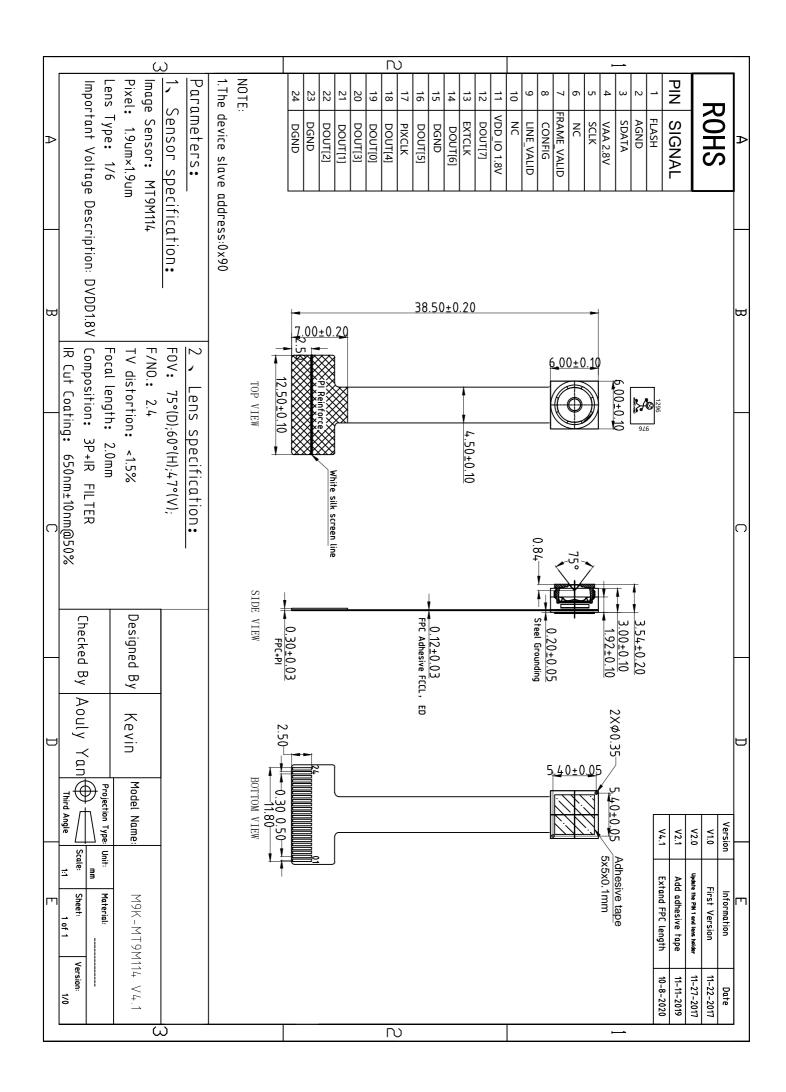




**Bottom View** 

Mating Connector

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### **Product Overview**

### MT9M114: 1 MP 1/6" System-on-Chip

#### For complete documentation, see the data sheet.

ON Semiconductor's focus on pixel performance excellence enables the built-in advantages of having a high quality image sensor at the core of this SOC (System-on-Chip). ON Semiconductor's SOCs provide a variety of camera functions including auto focus, auto white balance, and auto exposure. SOC is a cost-effective, compact, one-chip solution providing exceptional image quality and ease of integration which can lower overall system costs and speed time to market.

### **Applications**

Mobile

Part Electrical Specifications											
Product	Compliance	Status	Туре	Megapixel s	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
MT9M114EBLSTCZ- CR	Pb-free Halide free	Active	CMOS	1.3	30	1/6 inch	Electronic Rolling	1.9 x 1.9	Parallel MIPI	RGB	ODCSP- 55
MT9M114EBLSTCZ- CR1	Pb-free Halide free	Active	CMOS	1.3	30	1/6 inch	Electronic Rolling	1.9 x 1.9	Parallel MIPI	RGB	ODCSP- 55

For more information please contact your local sales support at www.onsemi.com. Created on: 9/30/2017

## 1/6-inch 720p High-Definition (HD) System-On-a-Chip (SOC) Digital Image Sensor

The MT9M114 from ON Semiconductor is a 1/6-inch 1.26 Mp CMOS digital image sensor with an active-pixel array of 1296 (H)  $\times$  976 (V). It includes sophisticated camera functions such as auto exposure control, auto white balance, black level control, flicker avoidance, and defect correction. It is designed for low light performance. The MT9M114 produces extraordinarily clear, sharp digital pictures, making it the perfect choice for a wide range of applications, including mobile phones, PC and notebook cameras, and gaming systems.

Table 1. KEY PERFORMANCE PARAMETERS				
Parameter	Typica			

Parameter	Typical Value
Optical Format	1/6-inch
Active Pixels	1296 (H) × 976 (V) = 1.26 Mp
Pixel Size	1.9 $\mu$ m $ imes$ 1.9 $\mu$ m
Color Filter Array	RGB Bayer
Shutter	Electronic Rolling Shutter (ERS)
Input Clock Range	6–54 MHz
Output MIPI Data Rate Maximum	768 Mb/s
Max. Frame Rate	30 fps Full Res 36.7 fps 720p 75 fps VGA 120 fps QVGA (Note 2)
Responsivity	2.24 V/Lux-sec (550 nm)
SNR <sub>MAX</sub>	37 dB
Dynamic Range	70.8 dB
Supply Voltage Digital Analog I/O PLL PHY	1.7–1.95 V 2.5–3.1 V 1.7–1.95 V or 2.5–3.1 V 2.5–3.1 V 1.7–1.95 V
Power Consumption	135 mW (Note 1)
Operating Temperature Range (Ambient) – T <sub>A</sub>	–30°C to 70°C
Chief Ray Angle	27.7°
Active Imager Size	2.46 mm (H) × 1.85 mm (V), 3.08 mm Diagonal
Package Options	Bare Die, CSP

1. Power consumption for typical voltages and 720p output.

2. Reduced FOV.

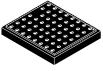
#### Features

- Superior Low-light Performance
- Ultra-low Power
- 720p HD Video at 30 fps



### **ON Semiconductor®**

www.onsemi.com



ODCSP55 4.7x3.9 CASE 570BP

#### **ORDERING INFORMATION**

See detailed ordering and shipping information on page 2 of this data sheet.

- Internal Master Clock Generated by On-chip Phase-locked Loop (PLL) Oscillator
- Electronic Rolling Shutter (ERS), Progressive Scan
- Integrated Image Flow Processor (IFP) for Single-die Camera Module
- Automatic Image Correction and Enhancement
- Arbitrary Image Scaling with Anti-aliasing
- Two-wire Serial Interface Providing Access to Registers and Microcontroller Memory
- Selectable Output Data Format: YCbCr, 565RGB, 555RGB, 444RGB, Processed Bayer, BT656, RAW8– and RAW8+2-bit
- Parallel and MIPI Data Output
- Independently Configurable Gamma Correction
- Adaptive Polynomial Lens Shading Correction
- UVC Interface
- Perspective Correction
- Multi-camera Synchronization

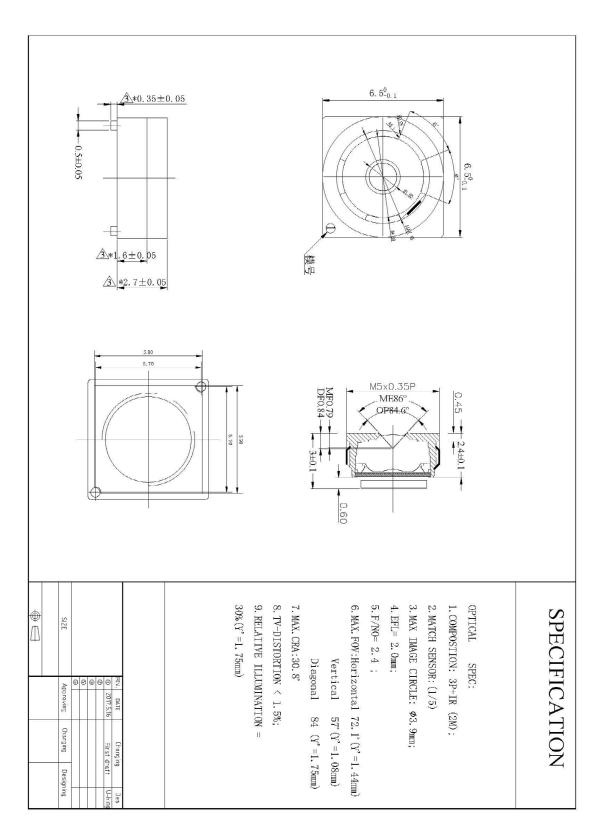
#### Applications

- Embedded Notebook, Netbook, and Desktop Monitor Cameras
- Tethered PC Cameras
- Game Consoles
- Cell Phones, Mobile Devices, and Consumer Video Communications
- Surveillance, Medical, and Industrial Applications

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## YDS-LENS-TR311B-H211-BD

DS

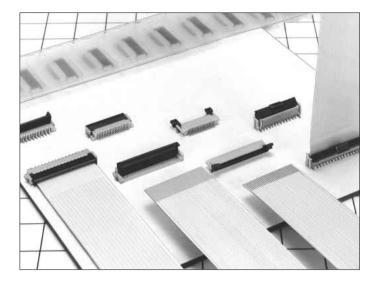


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The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

## 0.5mm and 1mm Pitch Connectors For FPC/FFC

### FH12 Series



### Features

### 1. Ease of Use and Space Savings

Only one finger or 6.9N (Newtons) of force is required to lock Hirose's rotational actuator (flip-lock) as compared to using 2 fingers and 39.2N to close a FFC/FPC connector from our competition.

The Flip-Lock design also allows customers to place 2 or more connectors side by side as there is no need to waste additional board space for a side latch.

#### 2. Strengthened Flip-lock Actuator

The standard Flip-Lock requires only 2.0mm height above the board. A strengthened lock lever is available which only requires an additional 0.4mm.

#### 3. Supports Thin FPC (0.18mm)

Hirose does not require double-sided FPC to have any additional strengthening plate or stiffener and can therefore support a thickness of as little as 0.18 mm +/- 0.05.

#### 4. Hirose Ensures Reliability

Hirose's patented half tuning fork contacts maintain the required normal force without relying on the connector housing. With our competitor's conventional products the housing walls support the contact force, which does not provide for long-term reliability.

### 5. Prevention of Solder Bridge

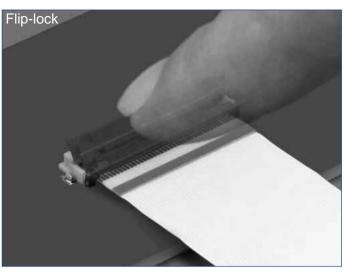
Excess solder cavity absorbs excessive solder and avoids solder bridging.

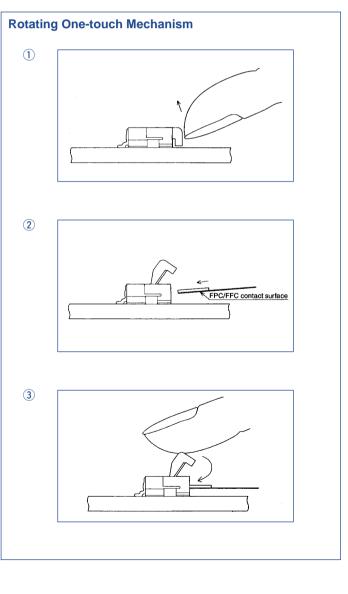
### 6. Three different assembly types

FH12 is offered in Top & Bottom Contact and Vertical Mount and offered in both a 0.5mm contact pitch as well as a 1.0mm contact pitch (bottom contact only).

### Applications

Notebook computers, printers, PDAs, digital cameras and other compact devices for interconnecting the main circuit board with the LCD, HDD or other device.





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### ■Product Specifications

Rating	Current rating: 0.5A DC(Note 1) Voltage rating: 50V AC	Operating Temperature Range:-40 to +70°C (Note 2) Storage Temperature Range:-10   Operating Humidity Range:Relative humidity, 90% max. Storage Humidity Range:Relative h   (Not dewed) Storage Humidity Range:Relative h		Storage Humidity Range:Relative humidity, 90% max.
Applicable FPC	t=0.3±0.05 Gold plated		t=	0.18 ± 0.05 for FH12F-*S-0.5SH

Item	Specification	Conditions		
1. Insulation resistance	500M ohms minimum	100V DC		
2. Withstanding voltage	No flashover or insulation breakdown.	150V AC/1 minute		
3. Contact resistance	50m ohms maximum	1mA		
4. Durability (Insertion/withdrawal) Contact resistance: 50m ohms maximum No damage, cracks, or parts dislocation.		20 cycles		
5. Vibration	No electrical discontinuity of $1\mu$ s or more Contact resistance: 50m ohms maximum. No damage, cracks, or parts dislocation.	Frequency: 10 to 55 Hz, single amplitude of 0.75 m 2 hours in each of the 3 directions.		
6. Shock	No electrical discontinuity of $1\mu$ s or more Contact resistance: 50m ohms maximum. No damage, cracks, or parts dislocation.	Acceleration of 490 m/s <sup>2</sup> , 11 ms duration, sine half-wave waveform, 3 cycles in each of the 3 axis		
7. Humidity(Steady state)	Contact resistance: 50m ohms maximum. Insulation resistance: 50M ohms minimum. No damage, cracks, or parts dislocation.	96 hours at 40°C and humidity of 90% to 95%		
8. Temperature Cycle	Contact resistance: 50m ohms maximum. Insulation resistance: 50M ohms minimum. No damage, cracks, or parts dislocation.	Temperature: $-40^{\circ}C \rightarrow 15$ to $35^{\circ}C \rightarrow 85^{\circ}C \rightarrow 15$ to $35^{\circ}C$ , Time: $30 \rightarrow 5$ max. $\rightarrow 30 \rightarrow 5$ max.(minutes) 5 cycles		
9.Resistance to Soldering heat No deformation of components affecting performance.		Reflow: At the recommended temperature profile Manual soldering: 350±5℃ for 3 seconds		

Note 1: When passing the current through all of the contacts, use 70% of the current rating.

Note 2: Includes temperature rise caused by current flow.

Note 3: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers nonconducting condition of installed connectors in storage, shipment or during transportation.

### Material

Part	Material	Finish	Remarks	
Insulator	Polyamide, LCP(60 pos.)	Color : Beige	- UL94V-0	
Actuator	PPS	Color : Dark brown		
Contact	Phosphor bronze	Gold plated		
Metal Fittings	Brass	Tin plated		

### **Ordering Information**

# $\frac{FH12}{0} \quad \frac{A}{2} = \frac{10}{6} \quad \frac{(4)}{4} = \frac{S}{6} \quad \frac{A}{6} = \frac{0.5}{2} \quad \frac{SH}{6} \quad \frac{(55)}{2}$

Series Name : FH12	5 Contact alignment: Single		
Blank : standard type	6 Eccentric direction:		
A : Top contact type	Blank : standard type		
S : Type with strengthed flip-lock actuator	A : Eccentric type		
F : Type with 0.18mm FPC End Thickness	Contacts Pitch : 0.5mm, 1mm		
Standard type : Number of contacts	8 Contact type		
Eccentric type : Number of contacts in 0.5mm housing	SH : SMT horizontal mounting type		
Standard type : Blank	SV : SMT vertical mounting type		
Eccentric type : Number of contacts	Plating specification		
	(55) : Gold plated		

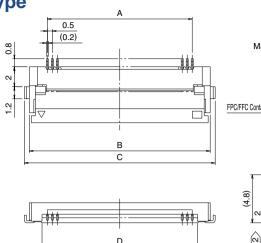
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## Series Configuration

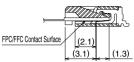
Pitch	Bottom Contact Type	Top Contact Type	Vertical mounting Type
0.5mm	FH12- ** S-0.5SH   P.12     Number of contacts   6, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 33, 34, 35, 36, 40, 45, 50, 53     Type with Strengthened Lock Lever     FH12S- ** S-0.5SH   P.13     Number of contacts   30, 40, 45, 50, 53     Type with 0.18mm FPC End Thickness     FH12F- ** S-0.5SH   P.14     Number of contacts   6, 8, 10, 12, 13, 14, 15, 16, 18, 20, 22, 24, 25,	FH12A- ** S-0.5SH P.15 Number of contacts 10, 12, 15, 16, 18, 20, 22, 24, 26, 28, 29, 30, 32, 33, 34, 36, 40, 42, 45, 50	FH12- ** S-0.5SV P16 Number of contacts 10, 12, 13, 15, 16, 17, 18, 20, 22, 24, 26, 30, 32, 33, 34, 36, 40, 45,
1mm	26, 28, 30, 32, 34, 36, 40 Standard FH12- ** S-1SH P18 Eccentric FH12- ** (**) SA-1SH Standard Number of contacts 5, 6, 7, 8, 9, 11, 12,16,17,22,26 Eccentric Number of contacts 4, 6, 8, 10, 11, 14, 19, 24		49, 50, 60

### ■0.5mm Pitch Bottom Contact Type





Mated Cross-sectional Diagram







Unit:mm

	Part Number	CL No.	Number of Contacts	А	В	С	D	RoHS
	FH12- 6S-0.5SH(55)	586-0582-5-55	6	2.5	6.1	7.1	3.57	
	FH12- 8S-0.5SH(55)	586-0744-5-55	8	3.5	7.1	8.1	4.57	
	FH12-10S-0.5SH(55)	586-0522-3-55	10	4.5	8.1	9.1	5.57	
	FH12-11S-0.5SH(55)	586-0600-5-55	11	5	8.6	9.6	6.07	
	FH12-12S-0.5SH(55)	586-0704-0-55	12	5.5	9.1	10.1	6.57	
	FH12-13S-0.5SH(55)	586-0549-0-55	13	6	9.6	10.6	7.07	
	FH12-14S-0.5SH(55)	586-0533-0-55	14	6.5	10.1	11.1	7.57	
	FH12-15S-0.5SH(55)	586-0523-6-55	15	7	10.6	11.6	8.07	
	FH12-16S-0.5SH(55)	586-0531-4-55	16	7.5	11.1	12.1	8.57	
	FH12-17S-0.5SH(55)	586-0606-1-55	17	8	11.6	12.6	9.07	
	FH12-18S-0.5SH(55)	586-0530-1-55	18	8.5	12.1	13.1	9.57	
	FH12-19S-0.5SH(55)	586-0534-2-55	19	9	12.6	13.6	10.07	
	FH12-20S-0.5SH(55)	586-0524-9-55	20	9.5	13.1	14.1	10.57	
	FH12-22S-0.5SH(55)	586-0532-7-55	22	10.5	14.1	15.1	11.57	YES
	FH12-24S-0.5SH(55)	586-0521-0-55	24	11.5	15.1	16.1	12.57	1123
	FH12-25S-0.5SH(55)	586-0692-3-55	25	12	15.6	16.6	13.07	
	FH12-26S-0.5SH(55)	586-0576-2-55	26	12.5	16.1	17.1	13.57	
	FH12-28S-0.5SH(55)	586-0612-4-55	28	13.5	17.1	18.1	14.57	
Note 2	FH12-30S-0.5SH(55)	586-0525-1-55	30	14.5	18.1	19.1	15.57	
	FH12-32S-0.5SH(55)	586-0681-7-55	32	15.5	19.1	20.1	16.57	
	FH12-33S-0.5SH(55)	586-0520-8-55	33	16	19.6	20.6	17.07	
	FH12-34S-0.5SH(55)	586-0617-8-55	34	16.5	20.1	21.1	17.57	
	FH12-35S-0.5SH(55)	586-0740-4-55	35	17.0	20.6	21.6	18.07	
	FH12-36S-0.5SH(55)	586-0526-4-55	36	17.5	21.1	22.1	18.57	
Note 2	FH12-40S-0.5SH(55)	586-0527-7-55	40	19.5	23.1	24.1	20.57	
Note 2	FH12-45S-0.5SH(55)	586-0528-0-55	45	22	25.6	26.6	23.07	
Note 2	FH12-50S-0.5SH(55)	586-0529-2-55	50	24.5	28.1	29.1	25.57	
Note 2	FH12-53S-0.5SH(55)	586-0595-7-55	53	26	29.6	30.6	27.07	

Note 1 : Embossed tape reel packaging (2,000 pieces/reel).

Order by number of reels.

Note  $\boxed{2}$ : If there is no problem with the connector height, we recommend the type with the strengthened Flip-lock actuator (FH12S-\*S-0.5SH).

Standard type connector height: 2 mm

Connector height of type with strengthened Flip-lock actuator: 2.4 mm



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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 DMO1N	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 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 D00 Y0	DVP data output port 0
D1 D01 Y1	DVP data output port 1
D2 D02 Y2	DVP data output port 2
D3 D03 Y3	DVP data output port 2
D4 D04 Y4	DVP data output port 3
D5 D05 Y5	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 7
D9 D09 Y9	DVP data output port 9
D10 D010 Y10	DVP data output port 9 DVP data output port 10
D11 D011 Y11	DVP data output port 10 DVP data output port 11
	עשר שמומ שעוףטו דיו

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### **Cameras Applications**

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### **Camera Reliability Test**

	Reliability Inspect	ion Item	Testing Mathed	A coopton on Crittoria	
Category		Item	Testing Method	Acceptance Criteria	
Environmental	Storage	High 60°C 96 Hours Temperature Chamber		No Abnormal Situation	
	Temperature	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	



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### **Camera Inspection Standard**

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Inspection Item			Inspection Method	Standard of Inspection	
Category		Item	Inspection Method	Standard of Inspection	
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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## **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



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

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Complete with Lens Protection Film



your best camera partner

## **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.



your best camera partner

### **YDS Strength**

Y

**Powerful Factory** 



#### **Professional Service**



### **Promised Delivery**



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