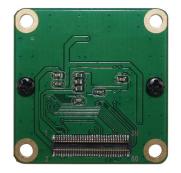


YDS-FMS-IMX334 V1.0

8.42MP Sony IMX334 MIPI Interface M12 Fixed Focus Camera Module



Front View



Back View

Specifications

Camera Module No.	YDS-FMS-IMX334 V1.0
Resolution	8.42MP
Image Sensor	IMX334
Sensor Type	1/1.8"
Pixel Size	2.0 um x 2.0 um
EFL	4.00 mm
F.NO	1.80
Pixel	3840 x 2160
View Angle	130.0°(DFOV) 100.0°(HFOV) 59.0°(VFOV)
Lens Dimensions	20.00 x 20.00 x 33.80 mm
Module Size	26.50 x 26.50 mm
Module Type	Fixed Focus
Interface	MIPI
Auto Focus VCM Driver IC	None
Lens Model	YDS-LENS-MJ7049A
Lens Type	650nm IR Cut
Operating Temperature	-30°C to +85°C
Mating Connector	DF40C-60DS-0.4V(51)

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YDS-FMS-IMX334 V1.0

8.42MP Sony IMX334 MIPI Interface M12 Fixed Focus Camera Module





Top View

Side View





Bottom View

Mating Connector

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				D		C		ω			A		
	1 of 1 version: 1 of 1 1/0		Third Angle			п@50%	IR Cut Coating: 650nm±10nm@50%	1.2V	1.8V; DVDD 1	OVDD ,	AVDD 2.9V; DOVDD 1.8V; DVDD		_
			\bigoplus	Aouly Yan	Checked Bv		Composition: 6G+IR FILTER		escription:	.age D	Important Voltage Description:	ЩЩ.	
	rial:	e: Unit: Material:	Projection Type:				Focal length: 4mm			1/1.8	Lens Type: 1,	Lei	
	FMS-IMX334 V1.0		Model Name:	Kevin	Designed By		TV distortion: <-35%			2.0um	Pixel: 2.0um×2.0um	Pix	
C							F/NO. • 1.8		IMX334LQR-C		ige Sensor:	Image	C
7							FOV: 130°(D);100°(H);59°(V)	1	Sensor specification:	speci			~
						••	2 . Lens specification:			••	Parameters	Pa	
									D_CLK_0_N	60	TENABLE	30	
									D_DATA_2_N	59	SHX	29	
										28 7	NO	28 i	
									D DATA 2 P	57	SDA	27	
												К С	
	VIEW	BOTTOM VIEW			SIDE VIEW	S	TOP VIEW		D_DATA_1_P	7, 54	N/C	24	
									D_DATA_0_P	53	NC	23	
									D_DATA_1_N	52	NC	22	
		11 61 4+	D1 40C-000F -0.40121	PCB(Green Oil)					D_DATA_0_N	51	SCL	21	
\sim	60 1				ŧ			1	GND	50	TEST1		$\overline{\mathbb{N}}$
							0		GND	49	XMASTER	1	
	-								D_DATA_3_N	48	NC	18	
									NC	47	NC	17	
	-		22,00			24,00	0	50±0. 00±0.	D_DATA_3_P	46	NC	16	
	$-2x\phi 2.50$								NC	45	XCLR	15	
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	C						0		GND	43	GND	13	
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				<u> </u>	11 7		- 20.00+0.10 -		NC	41	GND	1	
				Ł	33.8±0.3	Ť	26.50±0.20		NC	40	NC	10	
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							3840			36		9 م	
									SLAMODE1	ο 5 5	AVDD 2.9V	, л	
-									NC	34	NC	4	_
									NC	33	NC	٤	
									TOUT	32	NC	2	
									XTRIG	з <u>1</u>	NC	_	
	6-23-2020	First Version		V 1.0					SIGNAL	PIN	SIGNAL	PIN	
	Date	Information		Version						RoHS	Ro		
	_		_	D		С		Φ			A		

SONY

[Product Information]

Ver.1.1

IMX334LLR

Diagonal 8.86 mm (Type 1/1.8) CMOS Solid-state Image Sensor with Square Pixel for Monochrome Cameras

Description

The IMX334LLR is a diagonal 8.86 mm (Type 1/1.8) CMOS active pixel type solid-state image sensor with a square pixel array and 8.42 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: 3840 (H) × 2160 (V) approx. 8.29 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 3840(H) × 2160(V) A/D 12-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 (4 Lane / 8 Lane, RAW10 / RAW12 output)
- ◆ Recommended exit pupil distance: -100 mm to -∞

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 µm² (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
- Total number of pixels
- Number of effective pixels
- Number of active pixels
- Number of recommended recording pixels
- Unit cell size
- Optical black
- ♦ Dummy
- Package

Type 1/1.8 3952 (H) × 2320 (V) approx. 9.17 M pixels 3864 (H) × 2180 (V) approx. 8.42 M pixels 3864 (H) × 2176 (V) approx. 8.41 M pixels 3840 (H) × 2160 (V) approx. 8.29 M pixels 2.0 μ m (H) × 2.0 μ m (V) Horizontal (H) direction: Front 0 pixel, rear 0 pixel Vertical (V) direction: Front 13 pixels, rear 0 pixel Horizontal (H) direction: Front 0 pixel, rear 0 pixel Vertical (V) direction: Front 0 pixel, rear 0 pixel Vertical (V) direction: Front 0 pixel, rear 0 pixel Horizontal (H) direction: Front 0 pixel, rear 0 pixel

Image Sensor Characteristics

(Tj = 60 °C)

Item		Value	Remarks
Sensitivity (F8)	Тур.	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	3840 (H) × 2160 (V) approx. 8.29 M pixels	60	CSI-2	10/12

SONY

[Product Information]

Ver.1.2

IMX334LQR

Diagonal 8.86 mm (Type 1/1.8) CMOS Solid-state Image Sensor with Square Pixel for Color Cameras

Description

The IMX334LQR is a diagonal 8.86 mm (Type 1/1.8) CMOS active pixel type solid-state image sensor with a square pixel array and 8.42 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: 3840 (H) × 2160 (V) approx. 8.29 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 3840(H) × 2160(V) A/D 12-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 (4 Lane / 8 Lane, RAW10 / RAW12 output)
- ◆ Recommended exit pupil distance: -30 mm to -∞

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 µm² (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
- Total number of pixels
- Number of effective pixels
- Number of active pixels
- Number of recommended recording pixels
- Unit cell size
- Optical black
- ♦ Dummy
- ♦ Package

Type 1/1.8 3952 (H) × 2320 (V) approx. 9.17 M pixels 3864 (H) × 2180 (V) approx. 8.42 M pixels 3864 (H) × 2176 (V) approx. 8.41 M pixels 3840 (H) × 2160 (V) approx. 8.29 M pixels 2.0 μ m (H) × 2.0 μ m (V) Horizontal (H) direction: Front 0 pixel, rear 0 pixel Vertical (V) direction: Front 13 pixels, rear 0 pixel Horizontal (H) direction: Front 0 pixel, rear 0 pixel Vertical (V) direction: Front 0 pixel, rear 0 pixel 128 pin LGA

Image Sensor Characteristics

(Tj = 60 °C)

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

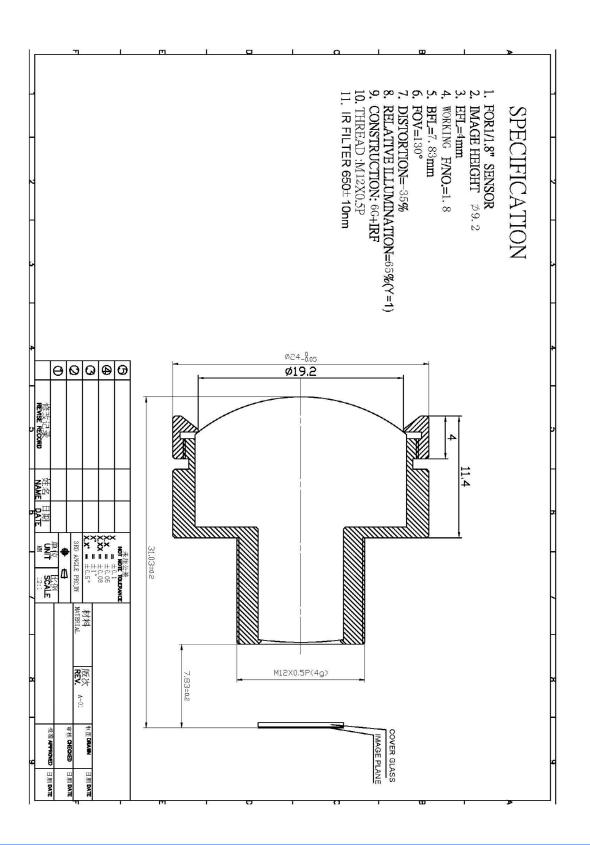
Basic Drive Mode

Drive mode	Recommended number of recording pixels	Maximum frame rate [frame/s]	Output interface	ADC [bit]
All pixel	3840 (H) × 2160 (V) approx. 8.29 M pixels	60	CSI-2	10/12
Horizontal/ Vertical 2/2-line binning	1920 (H) × 1080 (V) approx. 2.07 M pixels	120	CSI-2	10

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YDS-LENS-MJ7049A

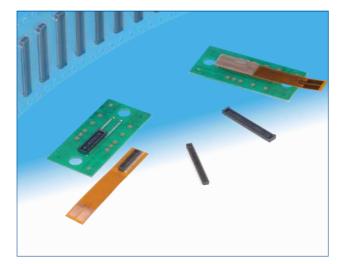
DS

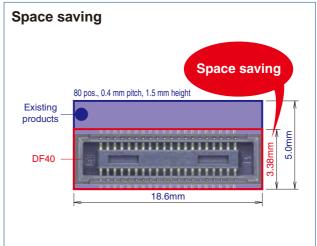


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0.4mm Pitch, 1.5 to 4.0mm Height, Board-to-Board and Board-to-FPC Connectors

DF40 Series





Features

1. High density mounting

Space saving design that has a minimum connector width, yet still retains a sufficient vacuum area for easy pick-and-place mounting Minimum width : 3.38mm

2. Multiple stack height options

In addition to its space saving design, several stack heights are available and add versatility to any application. Stack heights : 1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm, and 4.0mm.

3. High contact reliability

Despite its small stature and low profile, the contacts deliver strong contact forces and an effective mating length of 0.45mm on the 1.5mm stacking height. This connector utilizes a locking system that prevents accidental unmating issues and emits a clear tactile click to ensure that mating has been completed.

4. Excellent self-aligning range

The use of guide ribs allows 0.33mm of selfalignment on this connector.

5. Reinforced structure with shock absorbing ribs

Both sides of the connector have been reinforced with the addition of shock absorbing ribs.

6. Solder wicking prevention

Nickel-plated barriers were added to protect the contact areas from potential solder wicking.

7. Contamination resistant design

When mated, the connector's design covers the contacts which help to keep dust and other debris away from the contacts. The SMT leads are kept very close to the connector housing which also helps to prevent shorts caused by debris on the exposed contacts.

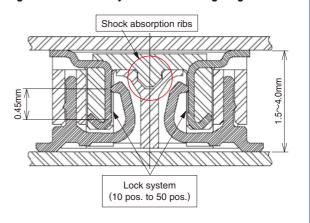
8. RoHS compliant

Environment friendly and does not use RoHS specified prohibited materials. All materials and substances used to produce these parts comply with the RoHS standards.

9. High speed signal with noise prevention

The shielded type can support high speed signal transmissions with noise prevention.

High contact reliability - effective mating length 0.45mm



Stacking height variations

Standard type Stacking 2.5 3.0 3.5 1.5 2.0 4.0 height mm mm mm mm mm mm 10 0 0 _ 12 _ _ 20 \bigcirc \bigcirc 0 _ 0 _ 24 0 0 _ _ _ _ 30 0 0 0 0 _ Contacts 34 0 40 0 0 _ 44 _ ę 50 ġ. 60 \bigcirc \bigcirc \bigcirc \bigcirc 70 \bigcirc _ 80 \bigcirc 0 _ 0 \bigcirc 90 \bigcirc _ _ _ \bigcirc 100

Shielded type

emen	leu ty	P0	
Stac hei	king ght	1.5 mm	3.0 mm
of cts	30	0	-
No. of contacts	48	0	0
∠°	70	-	0

Product Specifications

Ratings	Rated Current 0.3A Rated Voltage AC, DC 30V	Operating Temperation -35 to +85°C (Note Operating Humidity F 20 to 80%	1)	Storage Temperature Range -10 to +60°C (Note 2) Storage Humidity Range 40 to 70% (Note 2)
Items	Specifica	tions		Conditions
1. Insulation Resistar	nce 50MΩ min		Measured with	h DC 100V
2. Withstanding Volta	ge No flashover or breakdov	vn	Apply AC 100	V for 1 minute
3. Contact Resistanc	e 90mΩ max	90mΩ max		h AC 20mV, 1 kHz and 1mA
4. Vibration Resistan	ce No electrical discontinuity	of 1 μ s or greater	Frequency 10 3 directions fo	-55 Hz, half amplitude 0.75mm, or 2 hours
5. Humidity Resistan	Contact resistance : 90m Insulation resistance : 25		Left at temper 96 hours	rature $40 \pm 2^{\circ}$ C, humidity 90 to 95%,
6. Temperature Cycle	s	Contact resistance : $90m\Omega$ max Insulation resistance : $50m\Omega$ min		ttes → $5\sim35^{\circ}$ C : 10 minutes → 85° C : 30 35°C : 10 minutes) 5 cycles
7. Durability	Contact resistance : 90m	Ωmax	30 mating cycles	
8. Soldering Heat Resistance	Should be no melting of r its performance	esin parts that affects	Temp Hand solder :	rding to the Recommended berature Profile Soldering iron temperature 350°C, no more than 3 seconds.

Note 1 : Includes temperature rise caused by current flow.

Note 2 : The term "storage" here refers to products stored for a long period prior to board mounting and use. The operating temperature and humidity range covers the non-energized condition of connectors after board mounting and the temporary storage conditions during transportation, etc.

Materials (Standard, non shielded type) / Finish

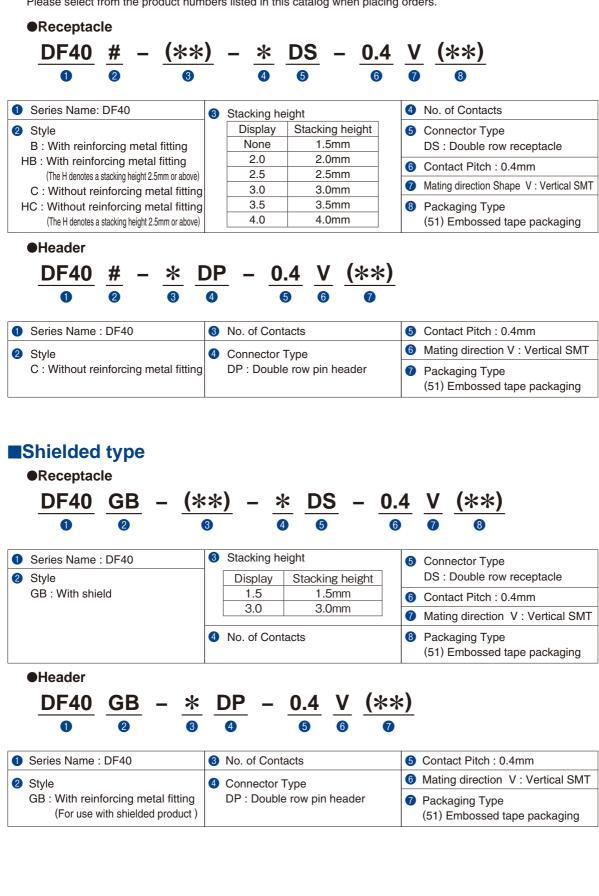
Product	Component	Materials	Finish	UL Regulation
Receptacle	Insulator	LCP	Black	UL94V-0
Receptacie	Contact	Phosphor bronze	Gold plating	
Header	Insulator	LCP	Black	UL94V-0
neader	Contact	Phosphor bronze	Gold plating	

Materials (Shielded type) / Finish

Product	Component	Materials	Finish	UL Regulation
	Insulator	LCP	Black	UL94V-0
Receptacle	Contact	Dhoonhor bronzo	Cold plating	
	Shield plate	Phosphor bronze	Gold plating	
	Insulator	LCP	Black	UL94V-0
Header	Contact	Dhoonhor bronzo	Cold plating	
-	Reinforcing metal fitting	Phosphor bronze	Gold plating	

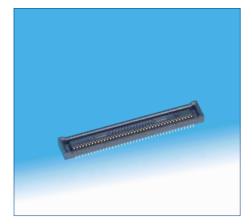
Product Number Structure (Standard, non-shielded type)

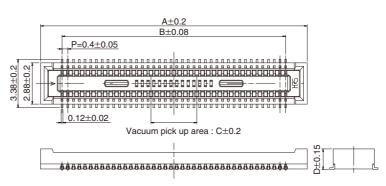
Refer to the chart below when determining the product specifications from the product number. Please select from the product numbers listed in this catalog when placing orders.



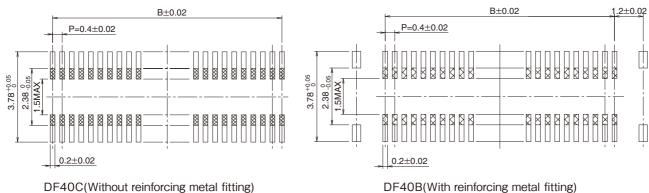
HS 3

Receptacle (Stacking height 1.5mm)





Recommended PCB layout



DF40C(Without reinforcing metal fitting)

Stacking height 1.5mm

[Specification No.] (51) : Embossed package 5,000 pcs/reel

11.5

				-		Unit : mm
Part No.	HRS No.	No. of Contacts	А	В	С	D
DF40B-10DS-0.4V(51)	684-4038-8 51	10	4.6	1.6	1.0	
DF40B-12DS-0.4V(51)	684-4152-3 51	12	5.0	2.0	1.0	
DF40B-30DS-0.4V(51)	684-4090-8 51	30	8.6	5.6	1.5	
DF40B-50DS-0.4V(51)	684-4018-0 51	50	12.6	9.6		
DF40B-60DS-0.4V(51)	684-4049-4 51	60	14.6	11.6	3.2	
DF40B-80DS-0.4V(51)	684-4052-9 51	80	18.6	15.6]	
DF40C-20DS-0.4V(51)	684-4005-9 51	20	6.6	3.6	1.0	
DF40C-24DS-0.4V(51)	684-4006-1 51	24	7.4	4.4	1.2	
DF40C-30DS-0.4V(51)	684-4007-4 51	30	8.6	5.6	1.5	1.45
DF40C-34DS-0.4V(51)	684-4023-0 51	34	9.4	6.4	2.3	
DF40C-40DS-0.4V(51)	684-4008-7 51	40	10.6	7.6		
DF40C-50DS-0.4V(51)	684-4009-0 51	50	12.6	9.6]	
DF40C-60DS-0.4V(51)	684-4004-6 51	60	14.6	11.6]	
DF40C-70DS-0.4V(51)	684-4016-5 51	70	16.6	13.6	3.2	
DF40C-80DS-0.4V(51)	684-4002-0 51	80	18.6	15.6]	
DF40C-90DS-0.4V(51)	684-4124-8 51	90	20.6	17.6]	
DF40C-100DS-0.4V(51)	684-4033-4 51	100	22.6	19.6]	

Note 1 : Please place orders by full reel.

Note 2 : The surface of the 60 to 100 pos. parts have a small, concave section that will not affect the vacuum pick up operation. Note 3 : I Resist coating area.

Note 4 : This connector is NOT polarized.





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

8

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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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YDS Camera Module



Tray with Grid and Space

Complete with Lens Protection Film



Place Cameras on the Tray





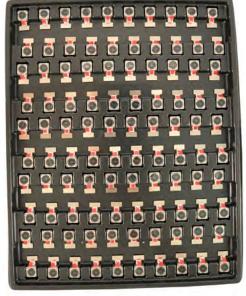
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YDSCAM Package Solutions

Full Tray of Cameras

DS



Place Tray into Anti-Static Bag

Cover Tray with Lid



Vacuum the Anti-Static Bag



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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



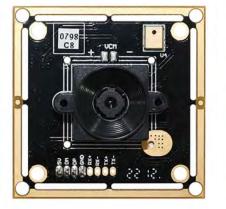
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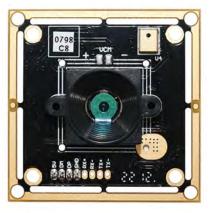


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USB Camera Module







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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