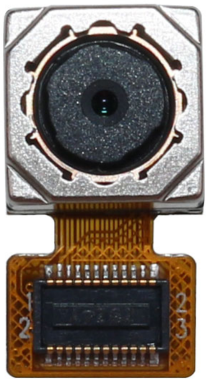
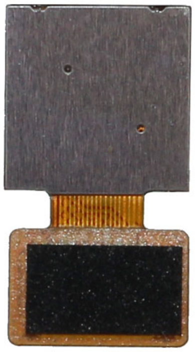
YDS-H7MA-OV5647 V1.0

5MP OmniVision OV5647 MIPI Interface Auto Focus Camera Module



Front View



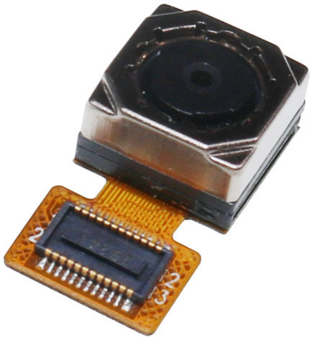
Back View

Specifications

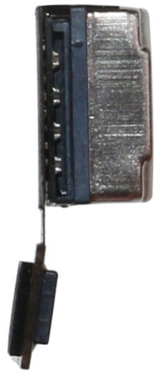
Camera Module No.	**YDS-H7MA-OV5647 V1.0**
Resolution	5MP
Image Sensor	OV5647
Sensor Type	1/4"
Pixel Size	1.4 um x 1.4 um
EFL	3.20 mm
F.NO	2.80
Pixel	2592 x 1944
View Angle	70.0°(DFOV) 58.6°(HFOV) 45.3°(VFOV)
Lens Dimensions	8.50 x 8.50 x 4.97 mm
Module Size	15.60 x 8.50 mm
Module Type	Auto Focus
Interface	MIPI
Auto Focus VCM Driver IC	DW9714
Lens Model	YDS-LENS-M5182
Lens Type	650nm IR Cut
Operating Temperature	-30°C to +70°C
Mating Connector	24-5805-024-000-829

YDS-H7MA-OV5647 V1.0

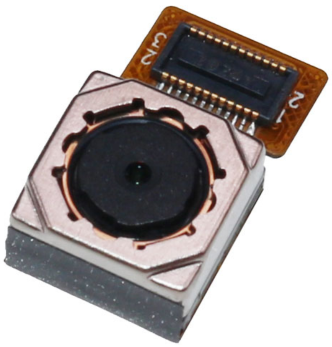
5MP OmniVision OV5647 MIPI Interface Auto Focus Camera Module



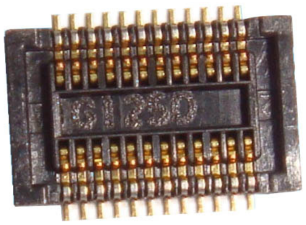
Top View



Side View



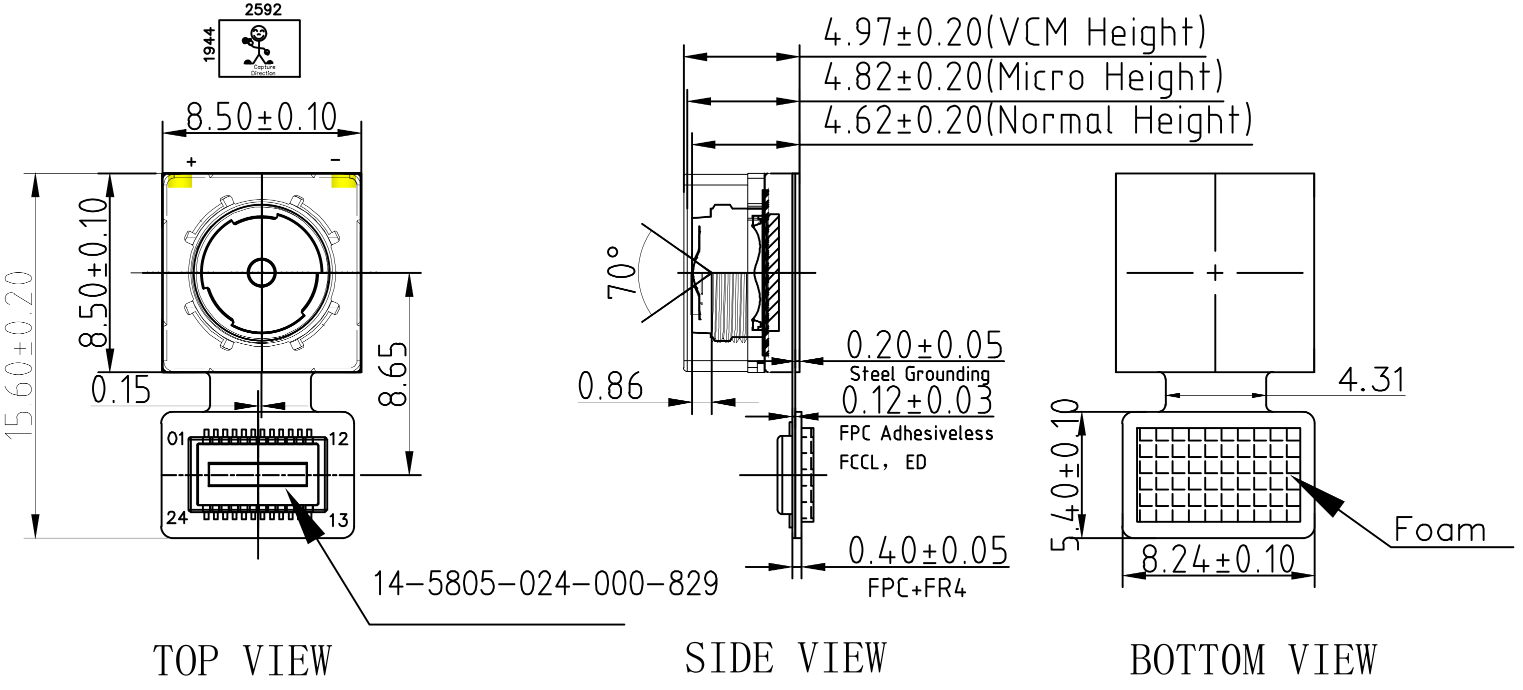
Bottom View

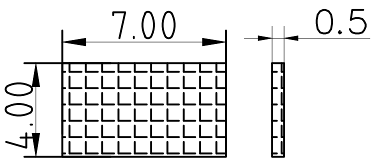


Mating Connector

1	AVDD(2.8V)
2	DOVDD(1.8V)
3	DVDD(1.5V)
4	PWDN
5	NC
6	NC
7	NC
8	NC
9	NC
10	NC
11	NC
12	DGND
13	SIO_D
14	SIO_C
15	MCLK
16	DAT1_P
17	DAT1_N
18	CLK_P
19	CLK_N
20	DAT0_P
21	DAT0_N
22	RESET
23	AFVDD2.8V
24	GND

Version	Mark	Information	Date
V1.0	PD	First Version	2019-02-16


2592
1944
Capture Direction
8.50±0.10
+
-
15.60±0.20
8.50±0.10
0.15
8.65
01
12
24
13
14-5805-024-000-829
TOP VIEW
4.97±0.20(VCM Height)
4.82±0.20(Micro Height)
4.62±0.20(Normal Height)
70°
0.86
0.20±0.05
Steel Grounding
0.12±0.03
FPC Adhesiveless
FCCL, ED
0.40±0.05
FPC+FR4
SIDE VIEW
4.31
5.40±0.10
8.24±0.10
Foam
BOTTOM VIEW



Foam T=0.5

Parameter:

1、Sensor specification:

Image Sensor: OV5647

Pixel: 1.4um×1.4um

Lens Type: 1/4

Important Voltage Description: DVDD1.5V (external power supply);

2 、Lens specification:

FOV: 70°

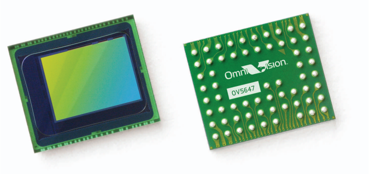
F/NO.: 2.8

TV distortion: <1.0%

Focal length: 3.2mm

Composition: 4P

Designed By	Kevin	Model Name:	H7MA-OV5647 V1.0		
Checked By	Aouly_Yan	Projection Type: Third Angle	Unit: mm	Material: --------------	
			Scale: 1:1	Sheet: 1 of 1	Version: 1/0



OV5647 5-megapixel product brief

5-megapixel 1/4" Image Sensor with 1.4 µm OmniBSI Technology Offering HD Video

lead free

available in
a lead-free
package

The OV5647 is a 5-megapixel CMOS image sensor built on OmniVision's proprietary 1.4-micron OmniBSI™ backside illumination pixel architecture. The OV5647 delivers 5-megapixel photography in addition to high frame rate of 720p/60 and 1080p/30 high-definition (HD) video capture in an industry standard camera module size of 8.5 x 8.5 x 5 mm, making it an ideal solution for the mainstream mobile phone market.

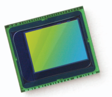
The 720p/60 HD video is captured in full field of view (FOV) with 2x2 binning to double the sensitivity and improve signal-to-noise ratio (SNR). The post binning re-sampling filter helps minimize spatial and aliasing artifacts to provide superior image quality.

OmniBSI technology offers significant performance benefits over front-side illumination technology, such as increased sensitivity per unit area, improved quantum efficiency, reduced crosstalk and photo response non-uniformity, which all contribute to significant improvements in image quality and color reproduction. Additionally, OmniVision CMOS image sensors use proprietary sensor technology to improve image quality by reducing or eliminating common lighting/electrical sources of image contamination, such as fixed pattern noise and smearing to produce a clean, fully stable color image.

The low power OV5647 supports a digital video parallel port or high-speed two-lane MIPI interface, and provides full-frame, windowed or binned 10-bit images in RAW RGB format. It offers all required automatic image control functions, including automatic exposure control, automatic white balance, automatic band filter, automatic 50/60 Hz luminance detection, and automatic black level calibration.

Find out more at www.ovt.com.

OV5647



Applications

- Mobile Phones
- PC Multimedia
- Digital Still Cameras

Product Features

- 1.4 µm x 1.4 µm pixel with OmniBSI technology for high performance (high sensitivity, low crosstalk, low noise)
- 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
  - 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: lens correction, defective pixel canceling
- support for output formats: 8-/10-bit raw RGB data
- support for video or snapshot operations
- support for LED and flash strobe mode
- support for internal and external frame synchronization for frame exposure mode
- support for 2x2 binning for better SNR in low light conditions
- post binning resampling filter to minimize spatial/aliasing artifacts on 2x2 binned image
- support for horizontal and vertical sub-sampling
- standard serial SCCB interface
- digital video port (DVP) parallel output interface
- MIPI interface (two lanes)
- 32 bytes of embedded one-time programmable (OTP) memory
- on-chip phase lock loop (PLL)
- embedded 1.5V regulator for core power
- programmable I/O drive capability, I/O tri-state configurability
- support for black sun cancellation

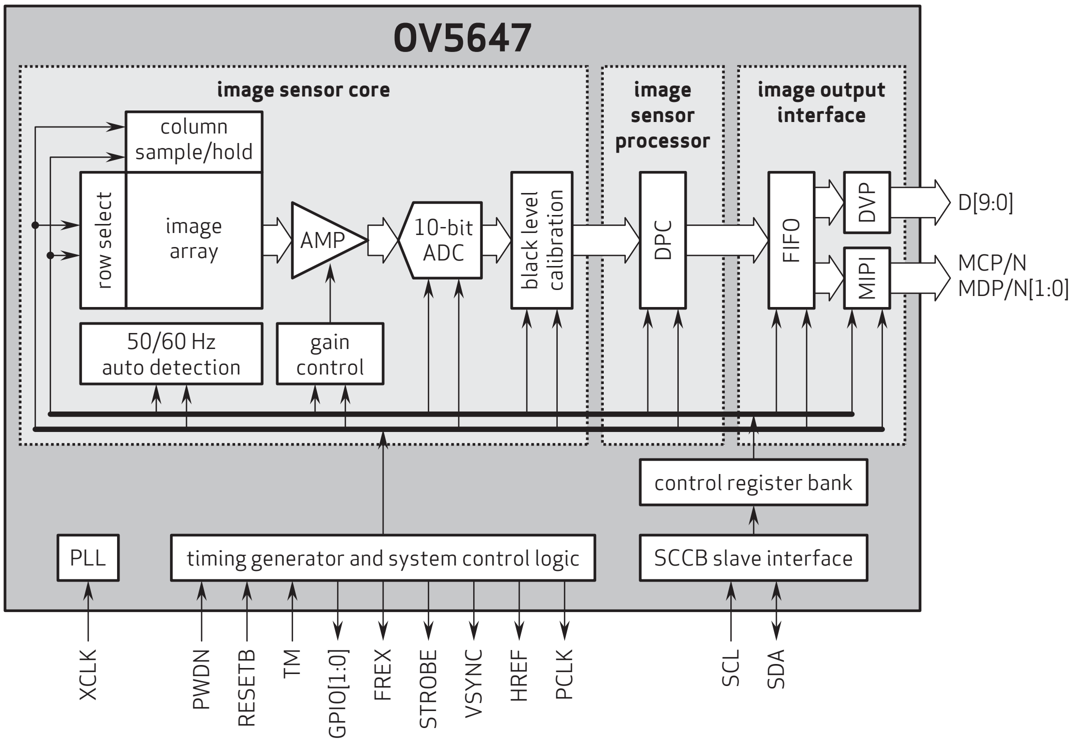
Ordering Information

- OV05647-G04A
  (color, chip probing, 200 µm backgrinding, reconstructed wafer)

Product Specifications

- **active array size:** 2592 x 1944
- **power supply:**
  - **core:** 1.5V ±5% (with embedded 1.5V regulator)
  - **analog:** 2.6 - 3.0V (2.8V typical)
  - **I/O:** 1.7 - 3.0V
- **power requirements:**
  - **active:** 96 mA
  - **standby:** 20 µA
- **temperature range:**
  - **operating:** -30°C to 70°C junction temperature
  - **stable image:** 0°C to 50°C junction temperature
- **output formats:** 8-/10-bit RGB RAW data
- **lens size:** 1/4"
- **lens chief ray angle:** 24°
- **input clock frequency:** 6 - 27 MHz
- **max S/N ratio:** 34 dB
- **dynamic range:** 67 dB @ 8x gain
- **maximum image transfer rate:**
  - **QSXGA (2592x1944):** 15 fps
  - **1080p:** 30 fps
  - **960p:** 45 fps
  - **720p:** 60 fps
  - **VGA (640x480):** 90 fps
- **sensitivity:** 600 mV/lux-sec
- **shutter:** rolling shutter
- **maximum exposure interval:** 1968 x t_{ROW}
- **pixel size:** 1.4 µm x 1.4 µm
- **dark current:** 8 mV/sec @ 50°C junction temperature
- **image area:** 3673.6 µm x 2738.4 µm
- **die dimensions:** 5520 µm x 4700 µm

Functional Block Diagram


OV5647
image sensor core
image sensor processor
image output interface
column sample/hold
row select
image array
AMP
10-bit ADC
black level calibration
DPC
FIFO
DVP
MIPI
D[9:0]
MCP/N
MDP/N[1:0]
50/60 Hz auto detection
gain control
control register bank
PLL
timing generator and system control logic
SCCB slave interface
XCLK
PWDN
RESETB
TM
GPIO[1:0]
FREX
STROBE
VSYNC
HREF
PCLK
SCL
SDA

4275 Burton Drive
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USA

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Fax: + 1 408 567 3001
www.ovt.com

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Version 1.3, October, 2012

1. General Description

The DW9714 is single 10-bit DAC with 120mA output current sink capability. Designed for linear control of voice coil motors, the DW9714 is capable of operating voltage to 3.6V. The DAC is controlled via a I^2C serial interface that operates DAC by clock rates up to 400kHz.

The DW9714 incorporates with a power-on reset circuit, power-down function, and exactly matched sense resistor. Power-on reset circuit ensure when supply power up, DAC output is to 0V until valid write-bit value takes place. It has a power down features that reduces the current consumption of the device to 1uA maximum.

The DW9714 is designed for auto focus and optical zoom camera phones, digital still cameras, and camcorders applications. The I^2C address for the DW9714 is 0x18.

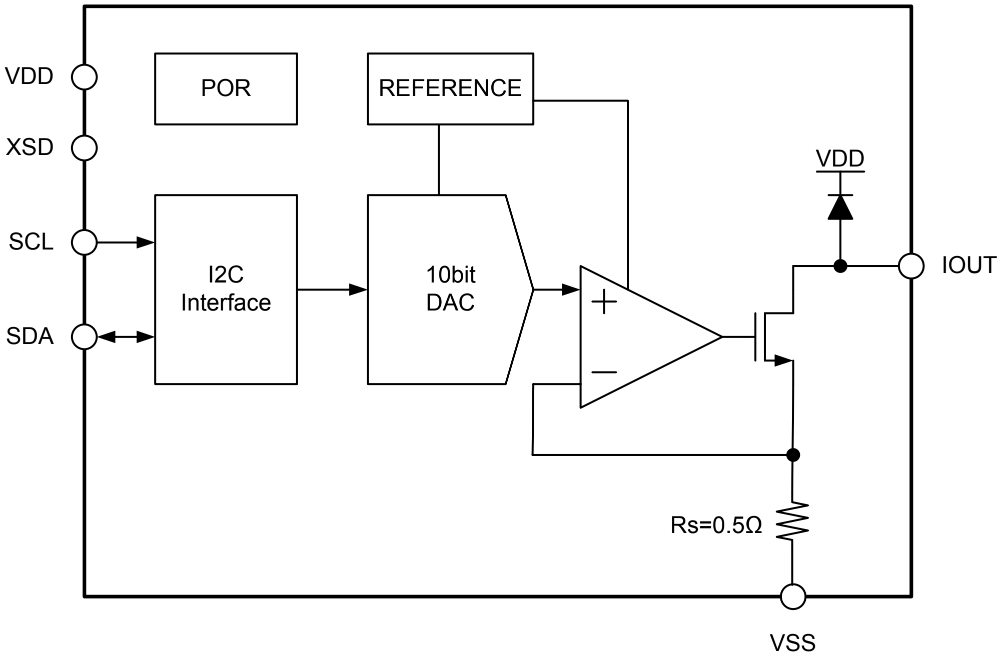
■ Features

VCM driver for auto-focus
10bit resolution current sinking of 120mA for VCM
VCM slew rate control (SRC) – Linear slope control, Dual level control
Supply voltage range (VDD) : 2.3V to 3.6V
Fast mode I2C interface (1.8V interface available)
Power on reset (POR)
Package : 0.80mm(W) X 1.20mm(H) X 0.3mm(T) 6pins WLCSP

■ Applications

Digital camera
Cell phone
Lens auto focus
Web camera

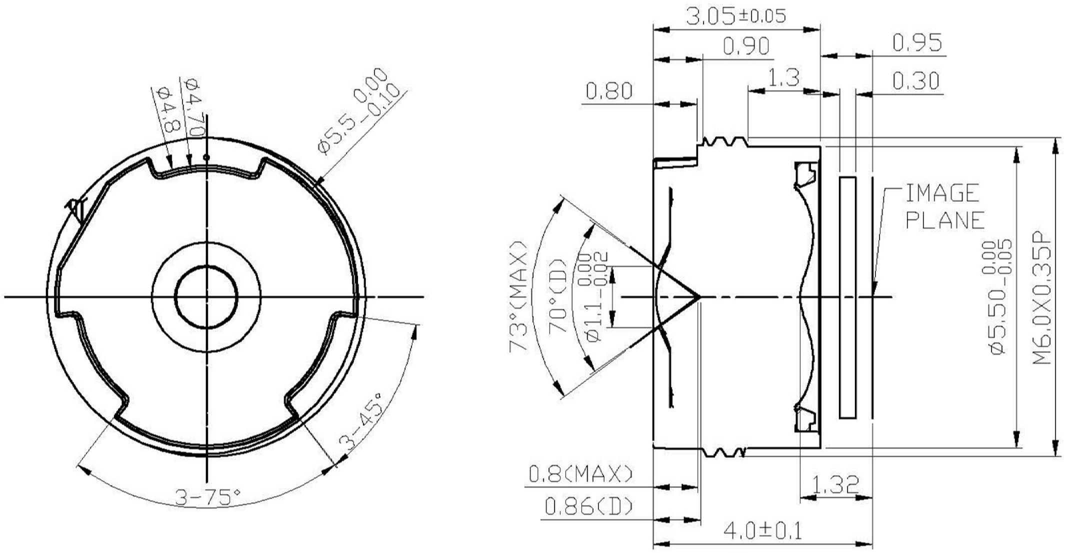
2. Block Diagram



YDS-LENS-M5182

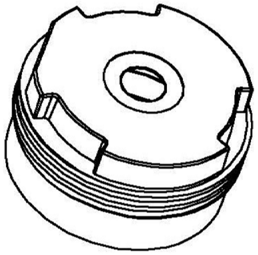
SPECIFICATION

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		0.98mm	
7. F/NO		2.8±5%	
8. VIEW OF FIELD	VERTICAL	45.3° (Y=1.36)	
	HORIZONTAL	58.6° (Y=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	330Lp/mm
		0.7Y	200Lp/mm
17. APPERANCE QUALITY (Scratch/Dig)		CENTER	20/10
		EDGE	40/20


ø4.8
ø4.70
ø5.5 0.00 -0.10
3-45°
3-75°
3.05±0.05
0.90
1.3
0.80
0.95
0.30
IMAGE PLANE
73°(MAX)
70°(D)
ø1.1 0.00 -0.02
ø5.50 0.00 -0.05
M6.0X0.35P
0.8(MAX)
0.86(D)
1.32
4.0±0.1

NOTE:

1. 镜头表面不可有油污、灰尘、毛丝等异物。
2. 镜头配VCM锁附高度为 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
4			
3			
2			
1	花瓣外径由5.53(0/-0.05)改为5.50 (0/-0.10)	tomlin	2016-12-05

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 A4	NAME	DATE
DRAWING BY	tomlin	2016-12-05
CHECKED BY		
APPROVED BY		

REV. A-01

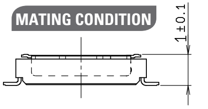
OPTICAL NO.

REMARK

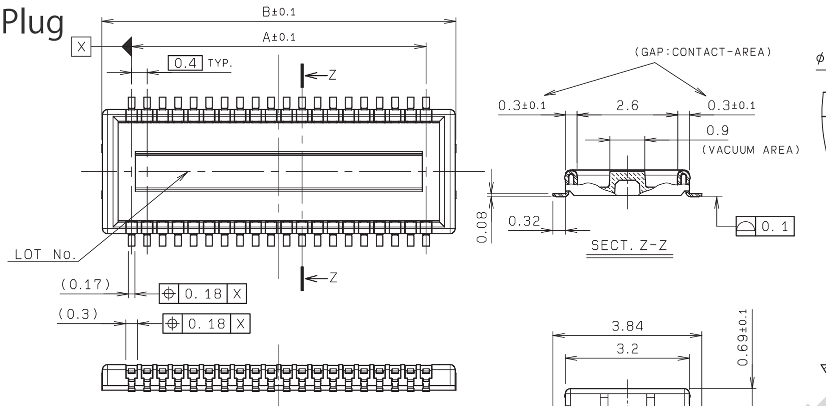
0.4mm Pitch
5805 Series

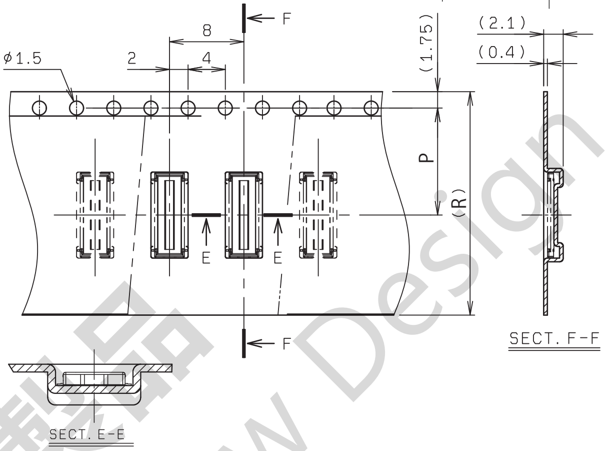
0.4mm ピッチ 嵌合高さ1.0mm 金具無し SMT
0.4mm Pitch, Stacking Height=1.0mm, Without Metal tab, SMT

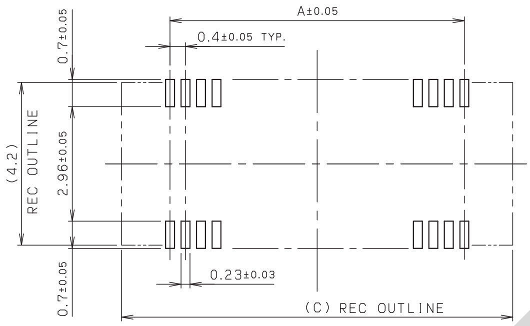
新規採用非推奨製品
Not Recommended for New Design


MATING CONDITION
1±0.1

● Plug


B±0.1
A±0.1
X
0.4 TYP.
Z
LOT No.
(0.17)
⌖ 0.18 X
(0.3)
⌖ 0.18 X
(GAP:CONTACT-AREA)
0.3±0.1
2.6
0.3±0.1
0.9
(VACUUM AREA)
0.08
0.32
⌓ 0.1
SECT. Z-Z
3.84
3.2
0.69±0.1

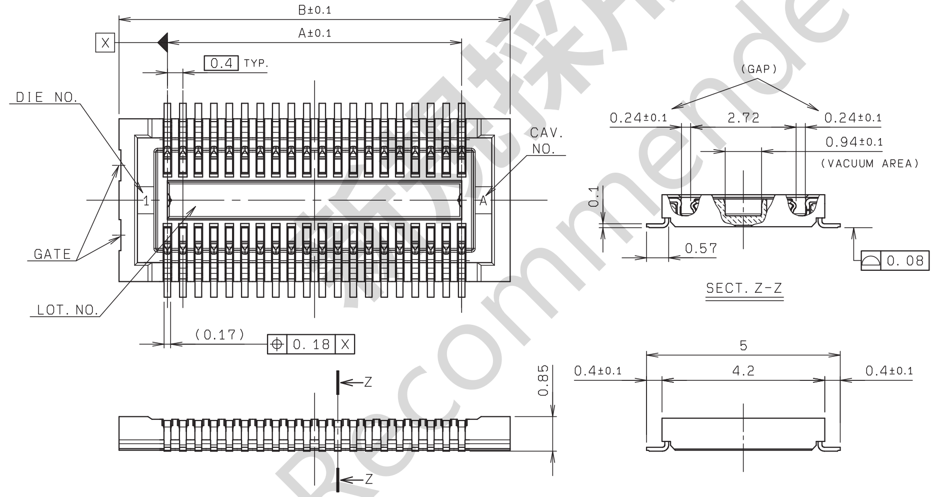

F
ϕ1.5
2
8
4
(1.75)
P
(R)
E
(2.1)
(0.4)
SECT. E-E
SECT. F-F

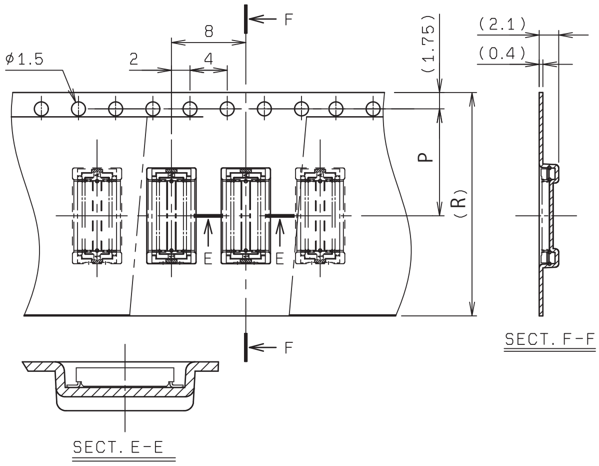

A±0.05
0.4±0.05 TYP.
0.7±0.05
2.96±0.05
0.7±0.05
(4.2)
REC OUTLINE
0.23±0.03
(C) REC OUTLINE

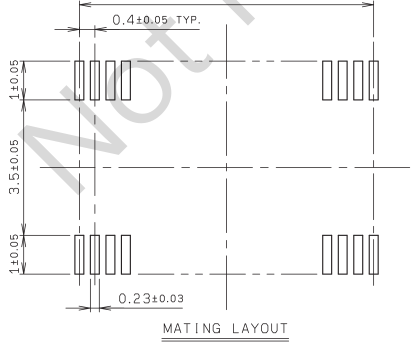
MOUNTING LAYOUT

極数 NO. OF POS.	A	B	C	P	R
10	1.6	3.14	4.1	5.5	12.0
16	2.8	4.34	5.3	7.5	16.0
20	3.6	5.14	6.1	7.5	16.0
24	4.4	5.94	6.9	7.5	16.0
26	4.8	6.34	7.3	7.5	16.0
30	5.6	7.14	8.1	7.5	16.0
34	6.4	7.94	8.9	11.5	24.0
40	7.6	9.14	10.1	11.5	24.0
44	8.4	9.94	10.9	11.5	24.0
50	9.6	11.14	12.1	11.5	24.0
54	10.4	11.94	12.9	11.5	24.0
60	11.6	13.14	14.1	11.5	24.0

● Receptacle


B±0.1
A±0.1
X
0.4 TYP.
DIE NO.
CAV. NO.
1
A
GATE
LOT. NO.
(0.17)
⌖ 0.18 X
Z
(GAP)
0.24±0.1
2.72
0.24±0.1
0.94±0.1
(VACUUM AREA)
0.1
0.57
⌓ 0.08
SECT. Z-Z
0.85
5
4.2
0.4±0.1
0.4±0.1


F
ϕ1.5
2
8
4
(1.75)
P
(R)
E
(2.1)
(0.4)
SECT. E-E
SECT. F-F


A±0.05
0.4±0.05 TYP.
1±0.05
3.5±0.05
1±0.05
0.23±0.03

MATING LAYOUT

極数 NO. OF POS.	A	B	C	P	R
10	1.6	4.1	3.2	5.5	12.0
16	2.8	5.3	4.4	7.5	16.0
20	3.6	6.1	5.2	7.5	16.0
24	4.4	6.9	6.0	7.5	16.0
26	4.8	7.3	6.4	7.5	16.0
30	5.6	8.1	7.2	7.5	16.0
34	6.4	8.9	8.0	11.5	24.0
40	7.6	10.1	9.2	11.5	24.0
44	8.4	10.9	10.0	11.5	24.0
50	9.6	12.1	11.2	11.5	24.0
54	10.4	12.9	12.0	11.5	24.0
60	11.6	14.1	13.2	11.5	24.0

本カタログには推奨めっきを掲載しております。
めっき種類・仕様、ならびに生産対応可能極数については営業部にご確認願います。

Recommended plating types are mentioned in this catalogue.
For other plating types and their specifications, and available numbers of positions, please feel free to contact our sales department.

注文コード/Ordering Code

Plug
Part No. 14 5805 0XX 020 829S+
極数 No. of Pos.

Receptacle
Part No. 24 5805 0XX 000 829S+
極数 No. of Pos.

RoHS 対応品
RoHS Compliant Product

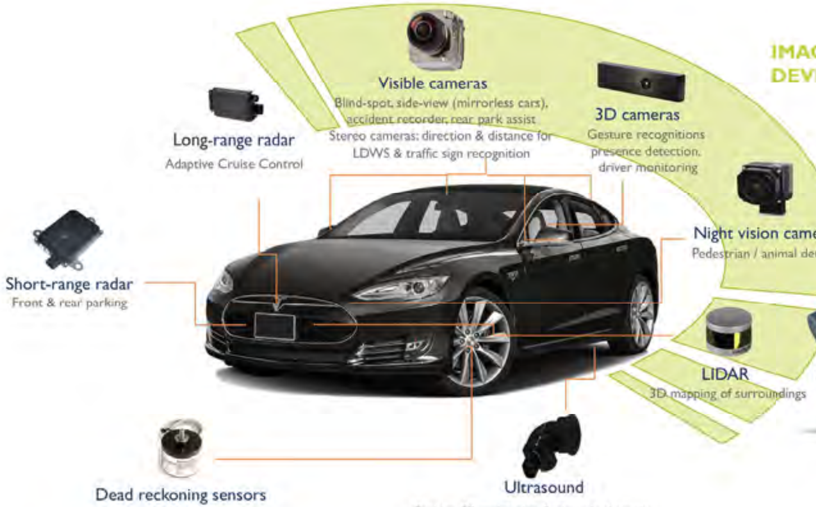
梱包数量：3,000 個／リール
PACKING QUANTITY: 3,000/Reel

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

Cameras Applications

Change View
Wide View


IMAGING DEVICES
Visible cameras
Blind-spot, side-view (mirrorless cars), accident recorder, rear park assist
Stereo cameras: direction & distance for LDWS & traffic sign recognition
3D cameras
Gesture recognitions presence detection, driver monitoring
Long-range radar
Adaptive Cruise Control
Night vision camera
Pedestrian / animal detection
Short-range radar
Front & rear parking
LIDAR
3D mapping of surroundings
Dead reckoning sensors
Odometry
Ultrasound
Parking, SR pedestrian & obstacle detection

Camera Reliability Test

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

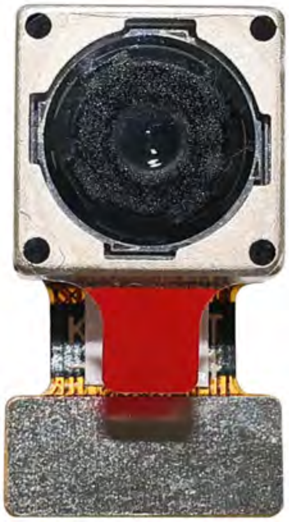
Camera Inspection Standard

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

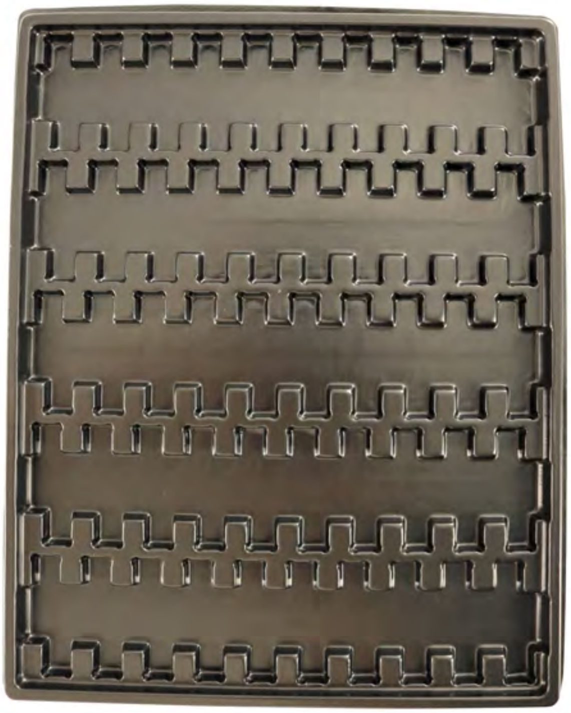
YDSCAM Package Solutions

YDS Camera Module

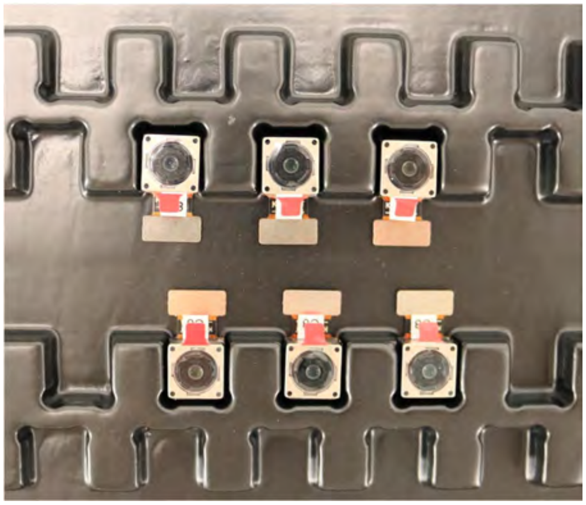
Complete with Lens Protection Film



Tray with Grid and Space

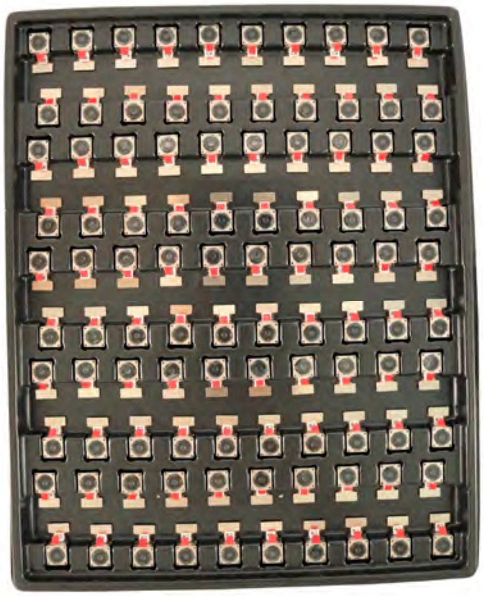


Place Cameras on the Tray

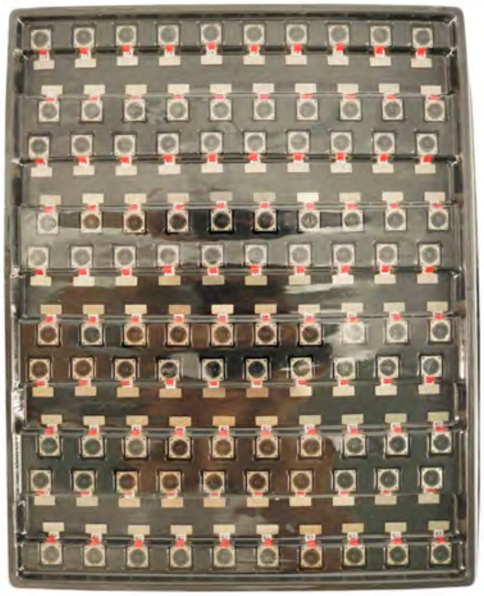


YDSCAM Package Solutions

Full Tray of Cameras



Cover Tray with Lid



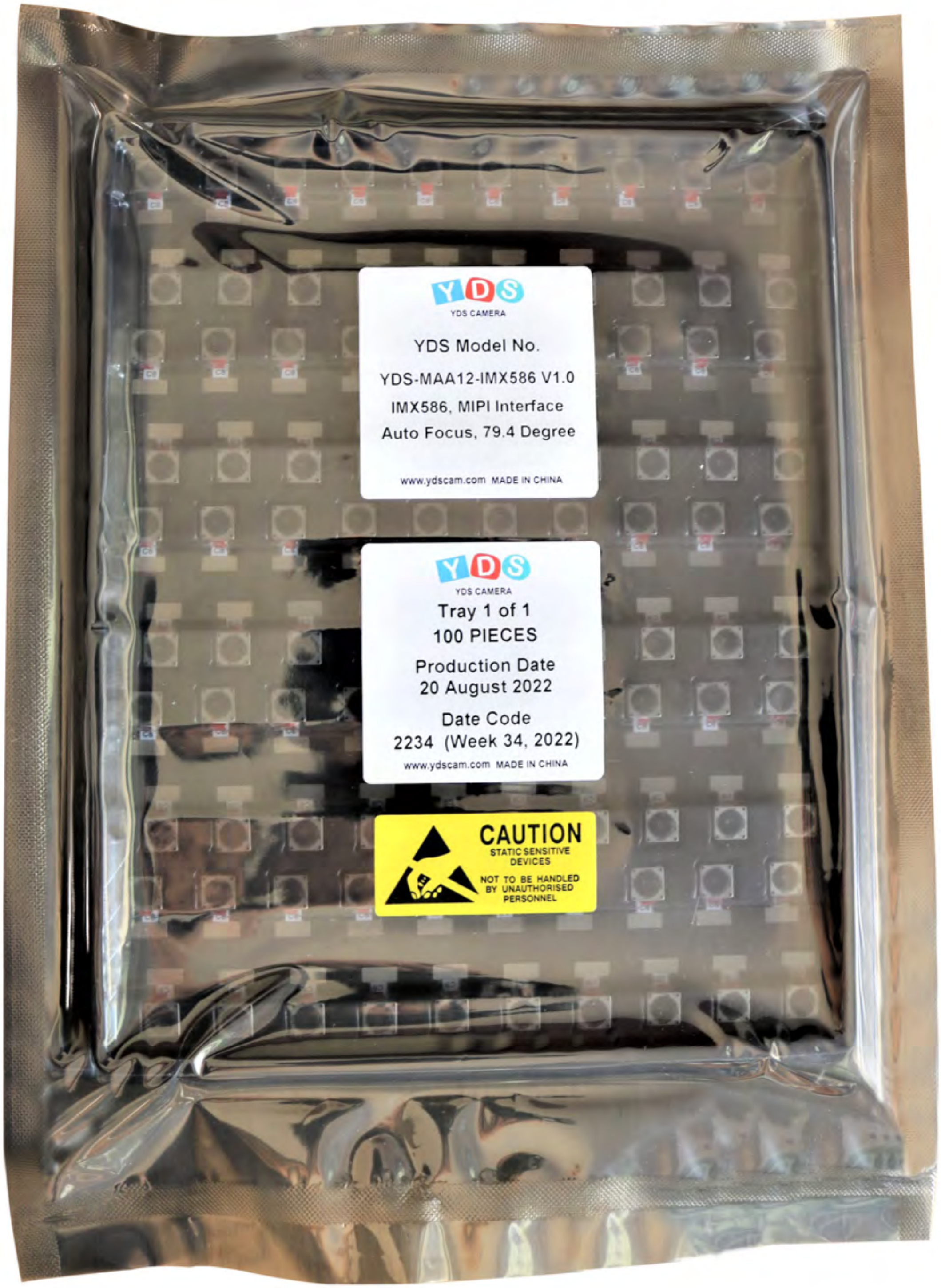
Place Tray into Anti-Static Bag

Vacuum the Anti-Static Bag

YDSCAM Package Solutions

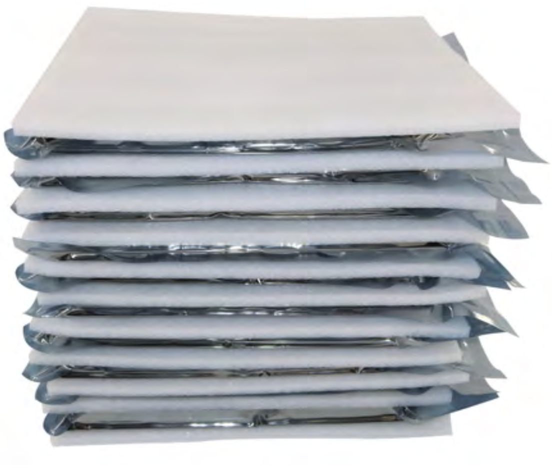
Sealed Vacuum Anti-Static Bag with Labels

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

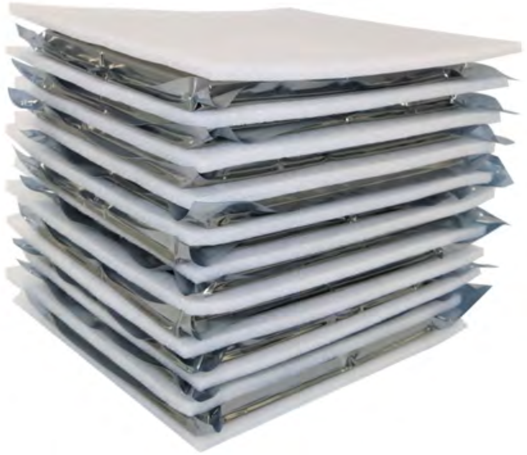

YDS CAMERA
YDS Model No.
YDS-MAA12-IMX586 V1.0
IMX586, MIPI Interface
Auto Focus, 79.4 Degree
www.ydscam.com MADE IN CHINA
YDS CAMERA
Tray 1 of 1
100 PIECES
Production Date
20 August 2022
Date Code
2234 (Week 34, 2022)
www.ydscam.com MADE IN CHINA
CAUTION
STATIC SENSITIVE DEVICES
NOT TO BE HANDLED BY UNAUTHORISED PERSONNEL

YDSCAM Package Solutions

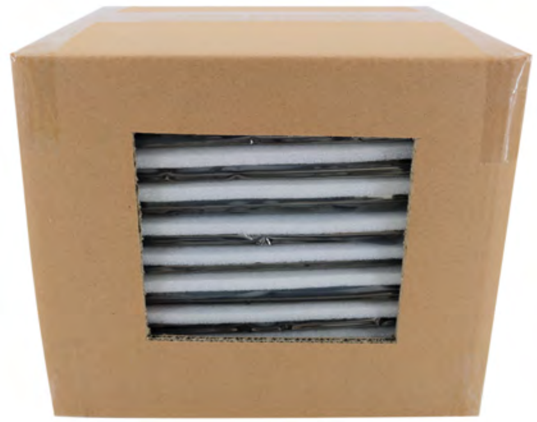
Place Foam Sheets Between Tray Bags



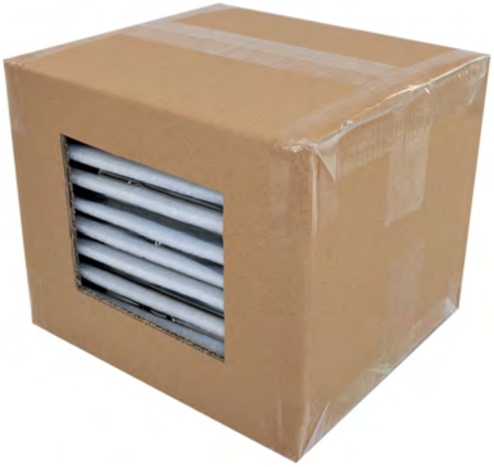
Foam Sheets are Larger Than Trays



Place Foam Sheets and Trays into Box

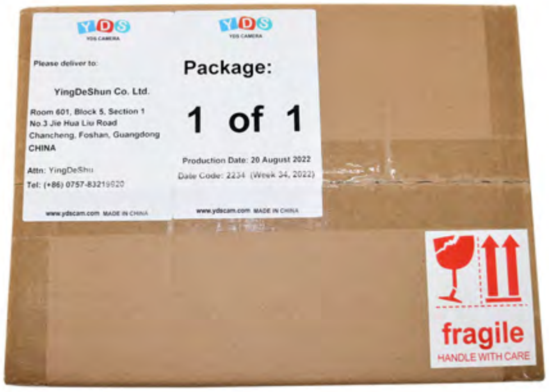


Foam Sheets are Tightly Fitting in Box



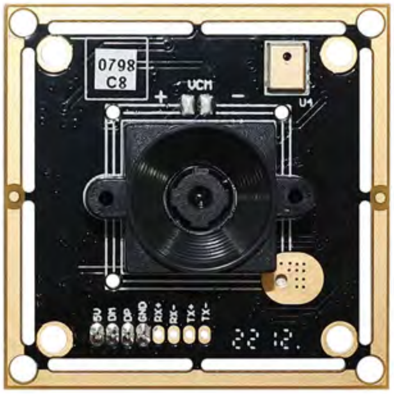
Seal the Carbon Box

Label the Carbon Shipping Box

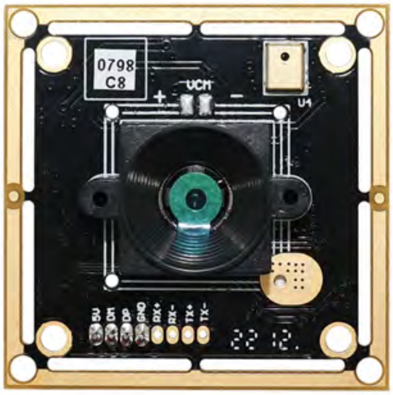

YDS
YDS CAMERA
Please deliver to:
YingDeShun Co. Ltd.
Room 601, Block 5, Section 1
No.3 Jie Hua Liu Road
Chancheng, Foshan, Guangdong
CHINA
Attn: YingDeShu
Tel: (+86) 0757-83219920
www.ydscam.com MADE IN CHINA
YDS
YDS CAMERA
Package:
1 of 1
Production Date: 20 August 2022
Date Code: 2234 (Week 34, 2022)
www.ydscam.com MADE IN CHINA
fragile
HANDLE WITH CARE

YDSCAM Package Solutions

USB Camera Module


0798
C8
VCM
U4
5V
DM
DP
GND
RX+
RX-
TX+
TX-
22 12.

Complete with Lens Protection Film


0798
C8
VCM
U4
5V
DM
DP
GND
RX+
RX-
TX+
TX-
22 12.

Place Camera Sample into Anti-Static Bag

Place USB Cameras into Tray

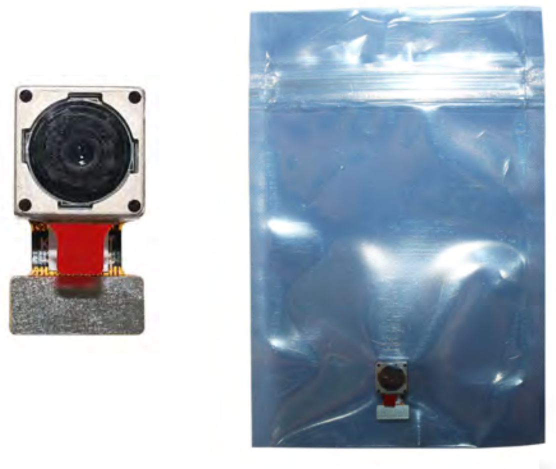
Seal the Tray with Anti-Static Bag

Label the Carbon Shipping Box

Package:
1 of 1
fragile
HANDLE WITH CARE
Package:
1 of 1

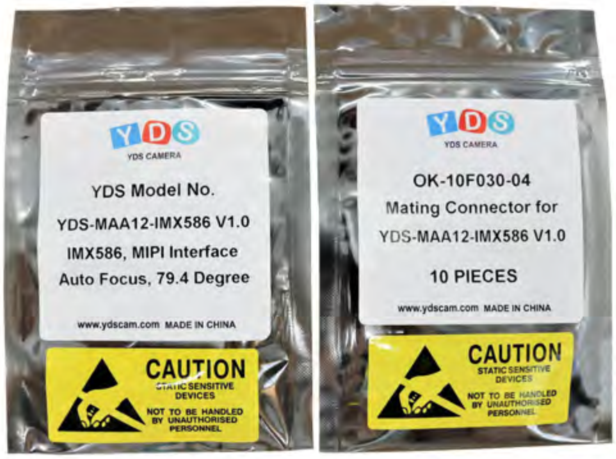
YDSCAM Package Solutions

Place Camera Sample into Anti-Static Bag



Place Connectors into Anti-Static Bag

Label the Sample Bags


YDS
YDS CAMERA
YDS Model No.
YDS-MAA12-IMX586 V1.0
IMX586, MIPI Interface
Auto Focus, 79.4 Degree
www.ydscam.com MADE IN CHINA
CAUTION
STATIC SENSITIVE DEVICES
NOT TO BE HANDLED BY UNAUTHORISED PERSONNEL
YDS
YDS CAMERA
OK-10F030-04
Mating Connector for
YDS-MAA12-IMX586 V1.0
10 PIECES
www.ydscam.com MADE IN CHINA
CAUTION
STATIC SENSITIVE DEVICES
NOT TO BE HANDLED BY UNAUTHORISED PERSONNEL

Place Connectors into Reel

Place Samples into the Carbon Box

Package:
1 of 1
fragile
HANDLE WITH CARE

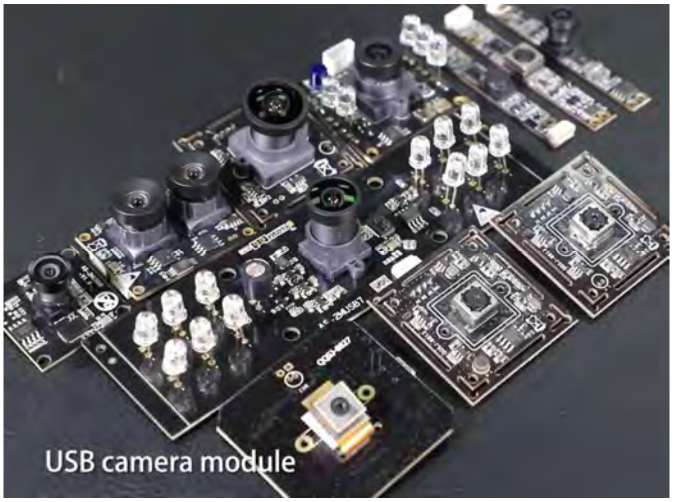
Place Connectors into the Carbon Box

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.

YDS Strength

Powerful Factory

Professional Service

Promised Delivery

DHL EXEL SUPPLY CHAIN

FedEx Express

EMS

UPS

TNT