YDS CAMERA MODULE

your best camera partner

YDS-USB-0815 V0

1.2MP OnSemi AR0134 Anti-Fog Heater Fixed Focus USB 2.0 Camera Module

YDS-USB-0815 V0 is a 1.2MP Fixed Focus USB camera module based on 1/3.0” AR0134 image sensor. This camera is specially designed for the refrigerator and the mobile vehicles, embedded with the anti-fog ceramic heater. The anti-fog heater keeps the lens from fogging in the sudden low/ high temperature change.

It delivers high-speed, good resolution ultra sharp image. The compact size lens holder enables fitting in small mobile devices. This camera module is ideal solution for refrigerator, electric box, vehicles, and outdoor monitoring applications.

Key Features

- 1.2 MP resolution (1280x960) OnSemi AR0134 sensor
- High speed USB 2.0 Plug and Play
- MJPG and YUV2 output format
- Anti-Fog ceramic heater keeps lens clear from fogging
- Fish-eye lens for wide view applications
- UVC compliant to Windows, Linux, OS with UVC driver
- USB OTG (On-The-Go) support

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1.2MP OnSemi AR0134 Anti-Fog Heater Fixed Focus USB 2.0 Camera Module

Camera Module No.	YDS-USB-0815 V0
Resolution	1.2MP
Image Sensor	AR0134
Sensor Type	1/3"
Pixel Size	3.75 um x 3.75 um
Lens Construction	2G4P + IR Cut (650m)
F.NO	2.00
Pixel	1288 x 968
View Angle	205°(DFOV) 205°(HFOV) 205°(VFOV)
Lens Dimensions	40.60 x 40.60 x 21.60 mm
Module Type	Fixed Focus
Lens Model	Fish Eye Lens
Interface	USB 2.0
Output Format	MJPG / YUV2
Auto Control	Saturation, Contrast, Acutance White Balance, Exposure
Audio (Optional)	Digital Microphone, Single, Dual Channel
USB Input Voltage	DC 5V
Working Current	Max 500mA
Overall Dimensions	62.98 x 40.60 x 19.70 mm
System Compatibility	Windows XP (SP2, SP3), Vista, 7, 8, 10, 11 Android, Mac OS, Linux or OS with UVC Driver Raspberry Pi by USB Port
Anti-Fog Ceramic Heater	Power Supply: DC 12V Max Current: 160mA Heating Time 15°C Increase in 45 seconds
Lens Type	650nm IR Cut
Operating Temperature	-30°C to +70°C
USB Cable	YDS-Cable-U0815

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

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YDS-USB-0815 V0

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Top View

Side View

Bottom View

Mating Connector

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YDS-USB-0815 V0

1.2MP OnSemi AR0134 Anti-Fog Heater Fixed Focus USB 2.0 Camera Module

FORMAT	RESOLUTION	FRAME RATE
		USB 2.0
MJPG	640 x 480 (VGA)	**25 FPS**
	1280 x 720 (720P)	**25 FPS**
YUY2	640 x 480 (VGA)	**25 FPS**
	1280 x 720 (720P)	**10 FPS**

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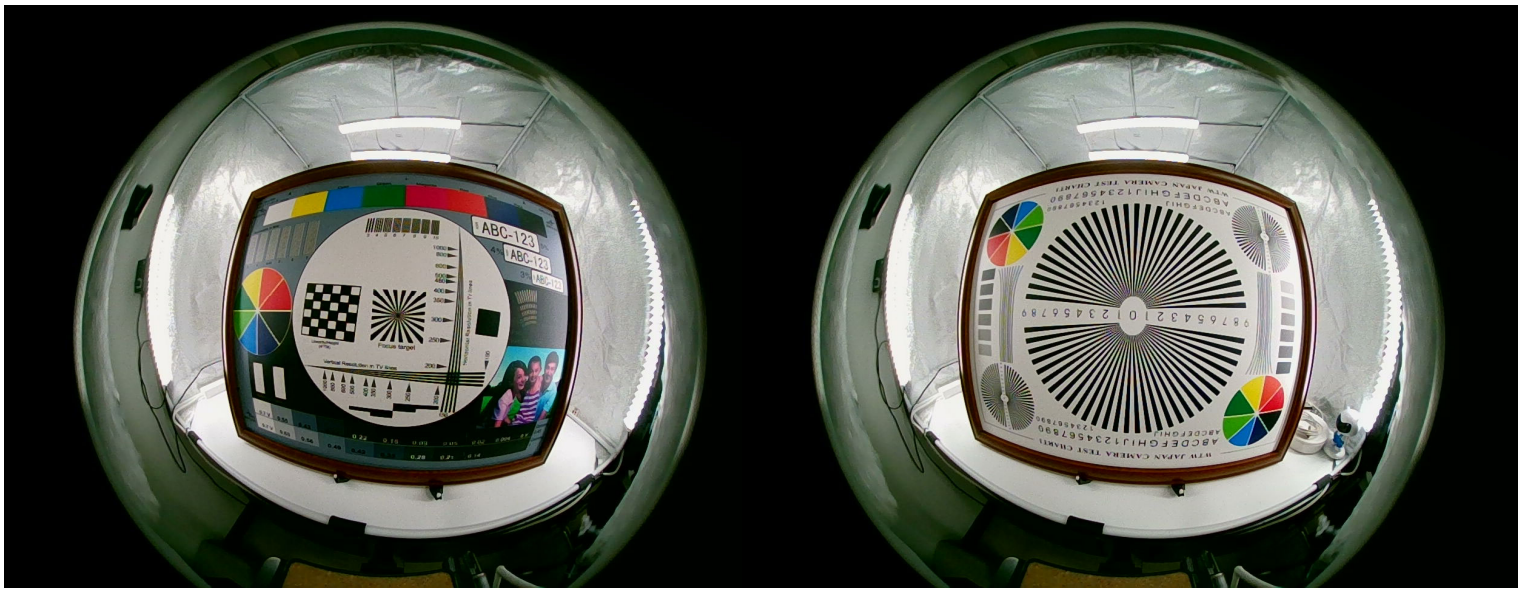

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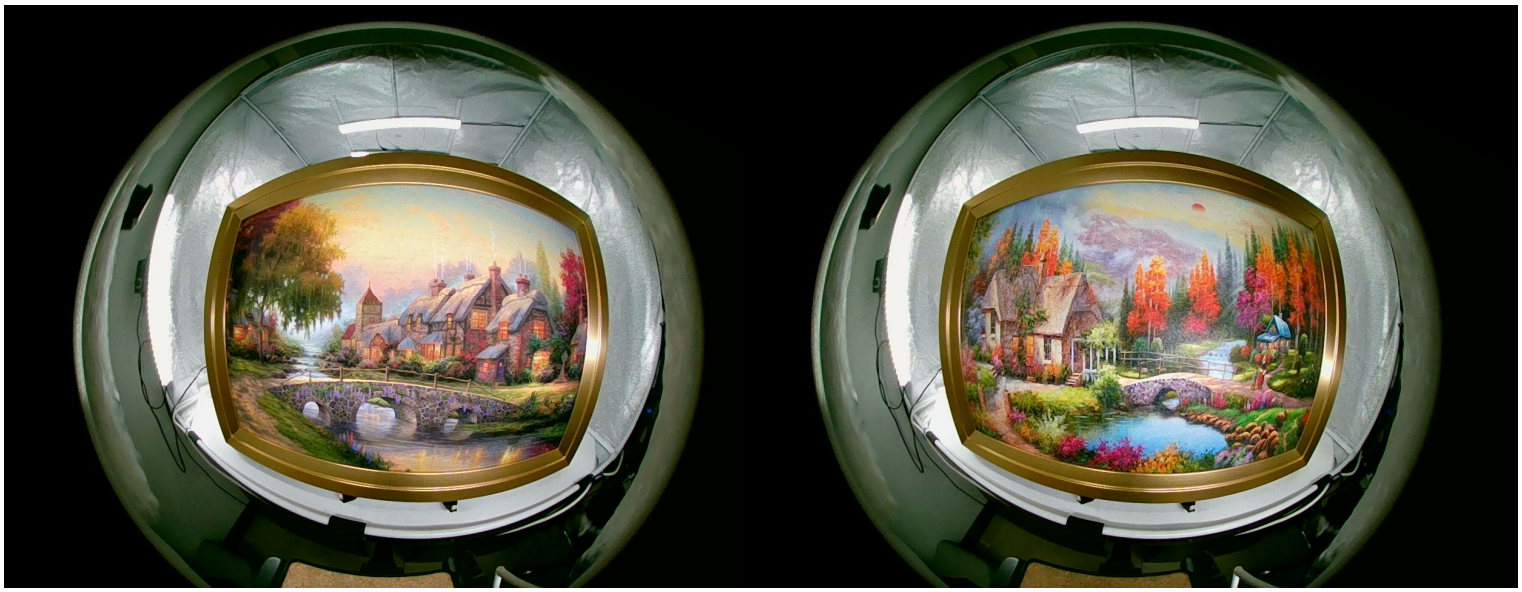

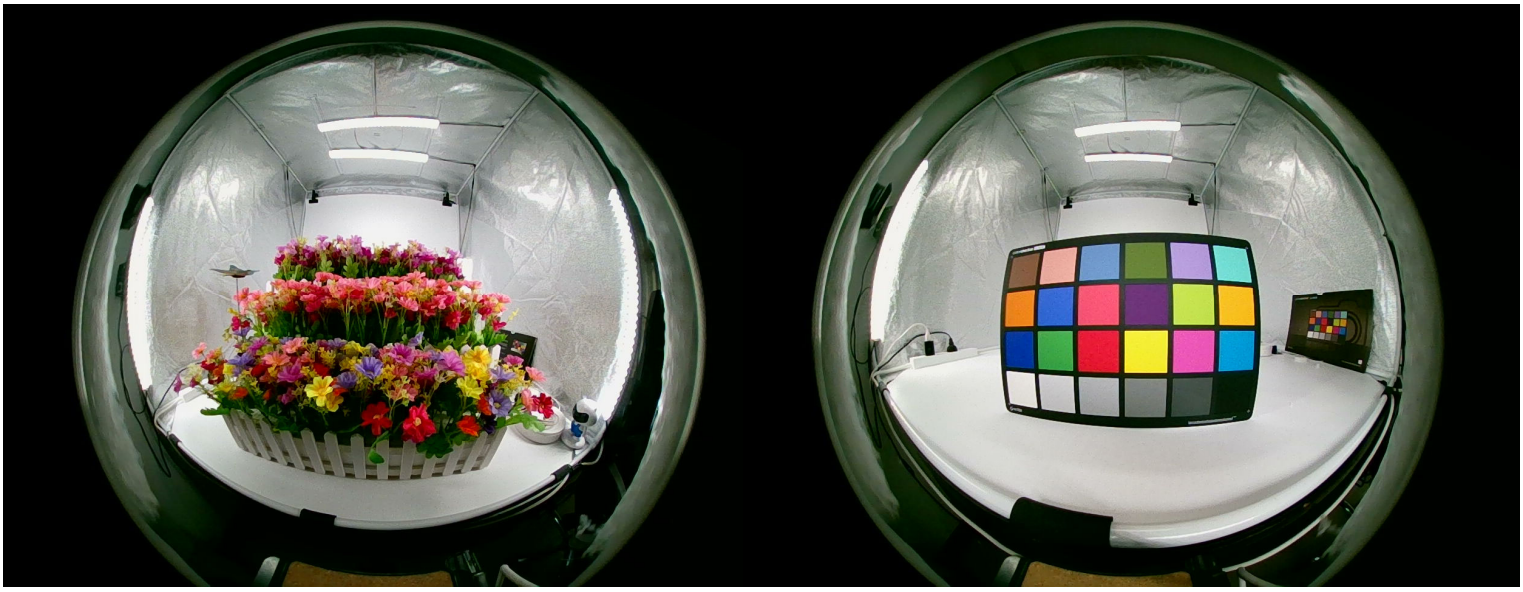

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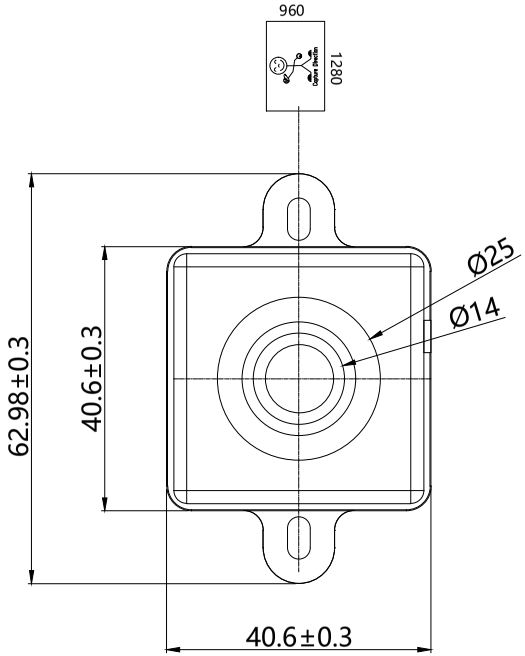
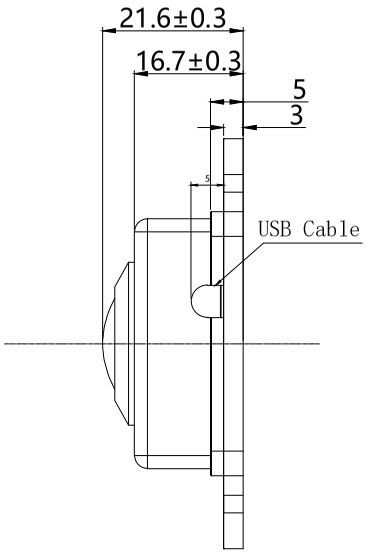
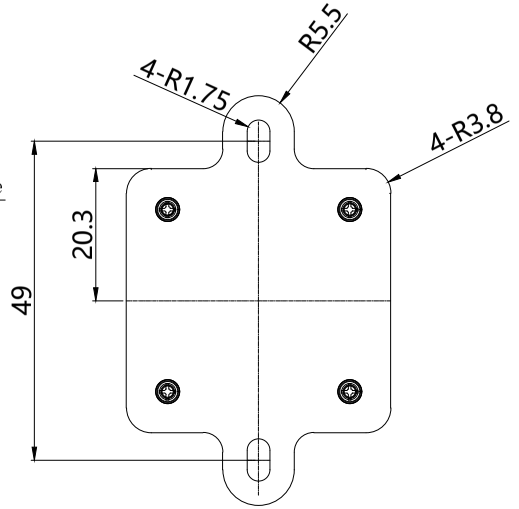
Version	Information	Date
V1.0	First Version	7-4-2022



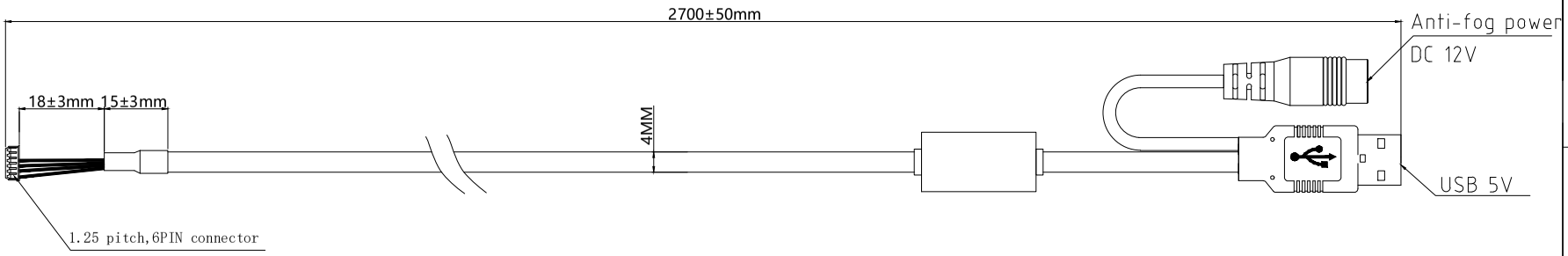
TOP VIEW



SIDE VIEW



BOTTOM VIEW



Parameter:

1、Sensor specification:

Image Sensor: AR0134
Pixel: 3.75um×3.75um
Lens Type: 1/3
Important Voltage Description: USB 5V and Anti-fog power DC 12V;

2、Lens specification:

FOV: 205°(D);205°(H);205°(V)
F/NO.: 2.0
TV distortion: <-127%
Focal length: 0.9mm
Composition: 2G4P+IR FILTER
IR Cut Coating: 650nm±10nm@50%

Designed By	Kevin	Model Name:	USB-0815 V0
Checked By	Aouly_Yan	Projection Type: Third Angle	Unit: mm / Material: ---------- / Scale: 1:1 / Sheet: 1 of 1 / Version: 1/0

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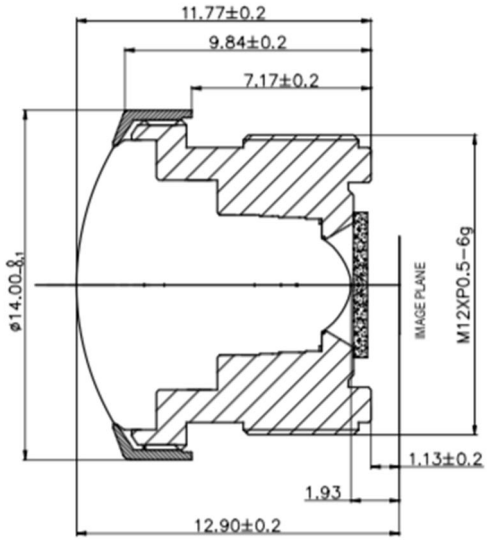
1.SPECIFICATION:

1.MAX IMAGE HEGHT	φ3.9
2.FOCAL LENGTH (EFL)	f = 0.9±0.05
3.F/NO (INFINITE)	F / NO=2.0±5%
4.BACK FOCAL LENGTH	BFL= 1.93±0.10
5.FLANGE BACK LENGTH	FB = 1.13±0.20
6.TOTAL TRACK LENGTH	TTL= 12.90±0.20
7.OPTICAL DISTORTION (Horizontal)	<-127.00%
8.RELATIVE ILLUMINATION	>45%
9.Thread Size	M12*0.5P-6g
10.Optical Axis Shift	<1°
11.Lens Waterproot grade	IPX9K
12.Element	2G4P+1IR
13.Storage Temperature	-40°~+95°
14.Working Temperature	-40°~+80°
15.Resolution TV Line	>=600@ 1 meter

16.IR FILTER SPEC.(Built-in,Others available)

Tavg>=95% @ 430-630 nm
T=50% @ 650±10 nm
Tavg<=3% @ 700-1000 nm
T<5% @ 1050 nm

Sensor	Field of view (Diagonal/Horizontal/Vertical)	CRA
PC7080D 648*488	D=200°±5° H=199°±3° V=149.2°±3°	8.5°



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Product Overview

AR0134CS: 1.2 MP 1/3" GS CMOS Image Sensor

For complete documentation, see the data sheet.

ON Semiconductor's focus on pixel performance excellence provides the foundation for this sensor's exceptional image quality with superior performance.The sensor integrates ON Semiconductor's smallest, high performance global shutter technology for high speed image capture into a 1/3-inch optical format high definition (HD) device. The 3.75-micron global shutter pixel with exceptional low light performance can stop action without the artifacts typically associated with conventional rolling shutter pixels.

Features

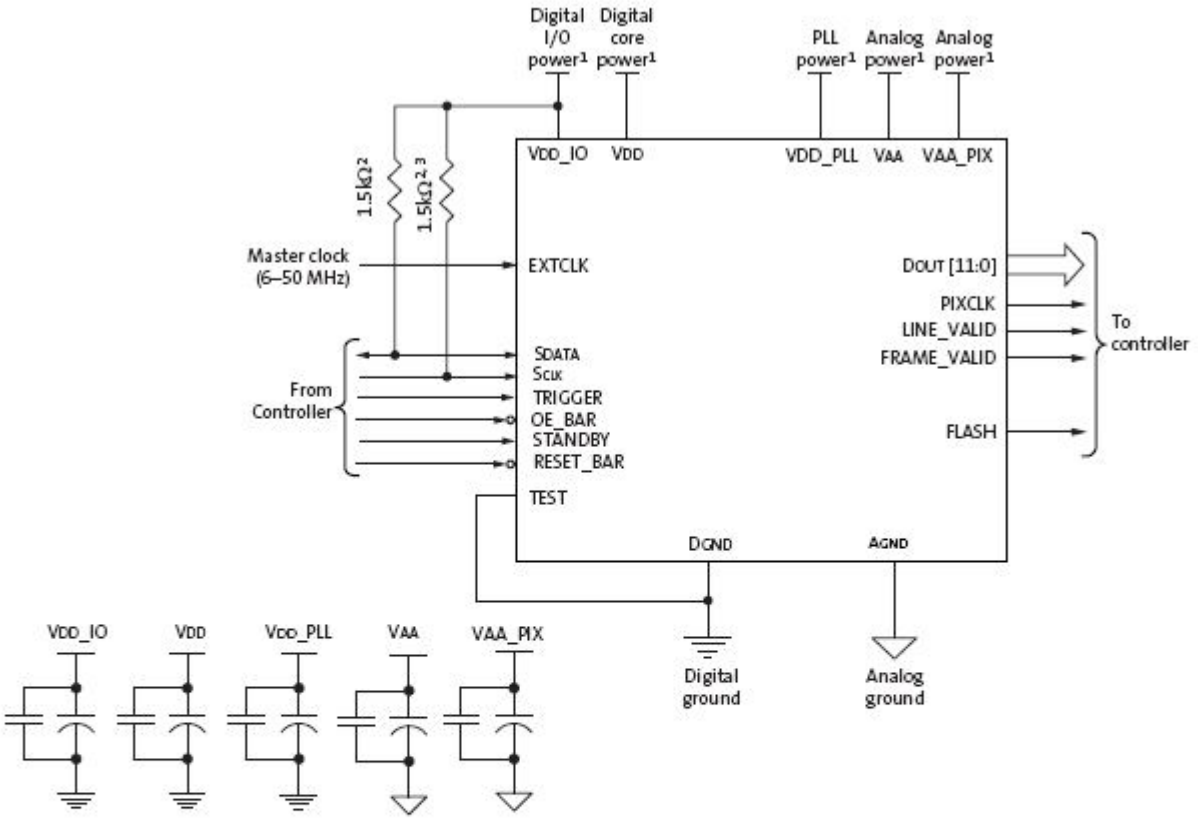
- ON Semiconductor's 3rd Generation Global Shutter Technology
- Superior low-light performance
- HD video (720p60)
- Video/Single Frame mode
- Flexible row-skip modes
- On-chip AE and statistics engine
- Parallel and serial output
- Support for external LED or flash
- Auto black level calibration
- Context switching

  For more features, see the data sheet

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0134CSSC00SPCA0-DPBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel HiSPi™	RGB	ILCC-48
AR0134CSSC00SPCA0-DRBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	ILCC-48
AR0134CSSC00SPCA0-TPBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	ILCC-48
AR0134CSSC00SPCA0-TRBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel HiSPi™	RGB	ILCC-48
AR0134CSSC00SUEA0-DPBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	IBGA-63
AR0134CSSC00SUEA0-DPBR1	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	IBGA-63
AR0134CSSC00SUEA0-DRBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	IBGA-63
AR0134CSSC00SUEA0-TPBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel HiSPi™	RGB	IBGA-63
AR0134CSSC00SUEA0-TRBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel HiSPi™	RGB	IBGA-63
AR0134CSSM00SPCA0-DPBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel HiSPi™	Mono	ILCC-48
AR0134CSSM00SPCA0-DPBR1	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Rolling	3.75 x 3.75	Parallel HiSPi™	Mono	ILCC-48
AR0134CSSM00SPCA0-DRBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	ILCC-48
AR0134CSSM00SPCA0-TPBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	ILCC-48
AR0134CSSM00SPCA0-TRBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel HiSPi™	Mono	ILCC-48
AR0134CSSM00SUEA0-DPBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel HiSPi™	Mono	IBGA-63
AR0134CSSM00SUEA0-DPBR1	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Rolling	3.75 x 3.75	HiSPi™ Parallel	Mono	IBGA-63
AR0134CSSM00SUEA0-DRBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	IBGA-63
AR0134CSSM00SUEA0-TPBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	IBGA-63
AR0134CSSM00SUEA0-TRBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	IBGA-63
AR0134CSSM25SPCA0-TPBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	ILCC-48
AR0134CSSM25SUEA0-DPBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	IBGA-63
AR0134CSSM25SUEA0-DRBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel HiSPi™	Mono	IBGA-63
AR0134CSSM25SUEA0-TPBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	IBGA-63
AR0134CSSM25SUEA0-TRBR	Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	IBGA-63

Application Diagram



Notes:
1. All power supplies must be adequately decoupled.
2. ON Semiconductor recommends a resistor value of 1.5kΩ, but it may be greater for slower two-wire speed.
3. This pull-up resistor is not required if the controller drives a valid logic level on SCLK at all times.
4. The serial interface output pads can be left unconnected if the parallel output interface is used.
5. ON Semiconductor recommends that 0.1µF and 10µF decoupling capacitors for each power supply are mounted as close as possible to the pad. Actual values and results may vary depending on layout and design considerations. Refer to the AR0134 demo headboard schematics for circuit recommendations.
6. ON Semiconductor recommends that analog power planes be placed in a manner such that coupling with the digital power planes is minimized.

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

Camera Module Pinout Definition Reference Chart

OmniVision Sony Samsung On-Semi Aptina Himax GalaxyCore PixArt SmartSens Sensors	
Pin Signal	**Description**
DGND GND	ground for digital circuit
AGND	ground for analog circuit
PCLK DCK	DVP PCLK output
XCLR PWDN XSHUTDOWN STANDBY	power down active high with internal pull-down resistor
MCLK XVCLK XCLK INCK	system input clock
RESET RST	reset active low with internal pull-up resistor
NC NULL	no connect
SDA SIO_D SIOD	SCCB data
SCL SIO_C SIOC	SCCB input clock
VSYNC XVS FSYNC	DVP VSYNC output
HREF XHS	DVP HREF output
DOVDD	power for I/O circuit
AFVDD	power for VCM circuit
AVDD	power for analog circuit
DVDD	power for digital circuit
STROBE FSTROBE	strobe output
FSIN	synchronize the VSYNC signal from the other sensor
SID	SCCB last bit ID input
ILPWM	mechanical shutter output indicator
FREX	frame exposure / mechanical shutter
GPIO	general purpose inputs
SLASEL	I2C slave address select
AFEN	CEN chip enable active high on VCM driver IC
MIPI Interface	
MDN0 DN0 MD0N DATA_N DMO1N	MIPI 1st data lane negative output
MDP0 DP0 MD0P DATA_P DMO1P	MIPI 1st data lane positive output
MDN1 DN1 MD1N DATA2_N DMO2N	MIPI 2nd data lane negative output
MDP1 DP1 MD1P DATA2_P DMO2P	MIPI 2nd data lane positive output
MDN2 DN2 MD2N DATA3_N DMO3N	MIPI 3rd data lane negative output
MDP2 DP2 MD2P DATA3_P DMO3P	MIPI 3rd data lane positive output
MDN3 DN3 MD3N DATA4_N DMO4N	MIPI 4th data lane negative output
MDP3 DP3 MD3P DATA4_P DMO4P	MIPI 4th data lane positive output
MCN CLKN CLK_N DCKN	MIPI clock negative output
MCP CLKP MCP CLK_P DCKN	MIPI clock positive output
DVP Parallel Interface	
D0 DO0 Y0	DVP data output port 0
D1 DO1 Y1	DVP data output port 1
D2 DO2 Y2	DVP data output port 2
D3 DO3 Y3	DVP data output port 3
D4 DO4 Y4	DVP data output port 4
D5 DO5 Y5	DVP data output port 5
D6 DO6 Y6	DVP data output port 6
D7 DO7 Y7	DVP data output port 7
D8 DO8 Y8	DVP data output port 8
D9 DO9 Y9	DVP data output port 9
D10 DO10 Y10	DVP data output port 10
D11 DO11 Y11	DVP data output port 11

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Cameras Applications

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Camera Reliability Test

Reliability Inspection Item			Testing Method	Acceptance Criteria
Category		Item		
Environmental	Storage Temperature	High 60°C 96 Hours	Temperature Chamber	No Abnormal Situation
		Low -20°C 96 Hours	Temperature Chamber	No Abnormal Situation
	Operation Temperature	High 60°C 24 Hours	Temperature Chamber	No Abnormal Situation
		Low -20°C 24 Hours	Temperature Chamber	No Abnormal Situation
	Humidity	60°C 80% 24 Hours	Temperature Chamber	No Abnormal Situation
	Thermal Shock	High 60°C 0.5 Hours 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

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

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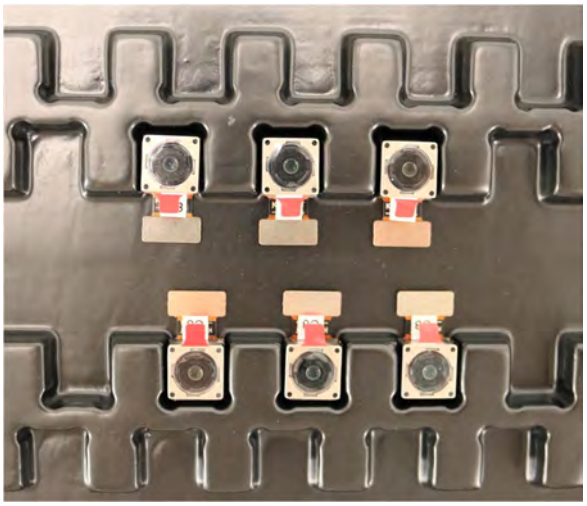
YDSCAM Package Solutions

YDS Camera Module

Complete with Lens Protection Film

Tray with Grid and Space

Place Cameras on the Tray



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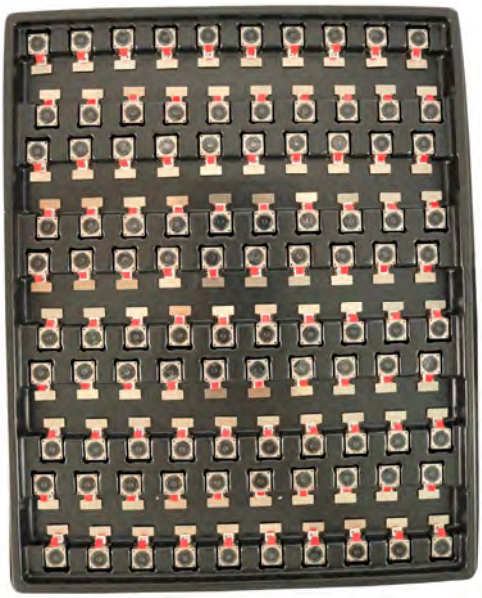
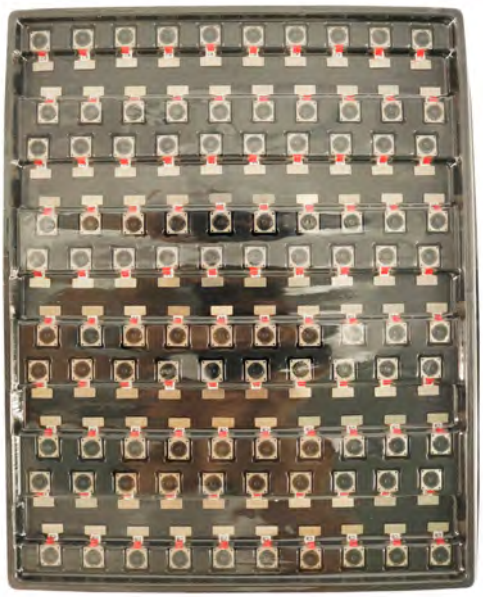
YDSCAM Package Solutions

Full Tray of Cameras



Cover Tray with Lid



Place Tray into Anti-Static Bag

Vacuum the Anti-Static Bag

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YDSCAM Package Solutions

Sealed Vacuum Anti-Static Bag with Labels

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

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Place Foam Sheets Between Tray Bags

Foam Sheets are Larger Than Trays

Place Foam Sheets and Trays into Box

Foam Sheets are Tightly Fitting in Box

Seal the Carbon Box

Label the Carbon Shipping Box

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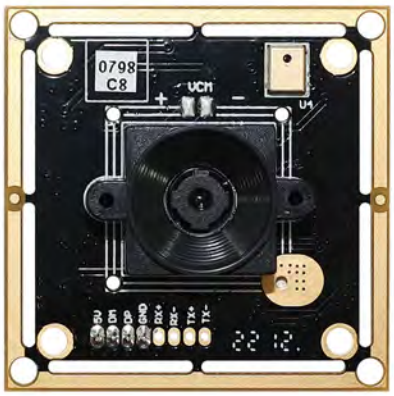
YDSCAM Package Solutions

USB Camera Module



Complete with Lens Protection Film

Place Camera Sample into Anti-Static Bag

Place USB Cameras into Tray

Seal the Tray with Anti-Static Bag

Label the Carbon Shipping Box

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

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YDS CAMERA MODULE

your best camera partner

YDSCAM Package Solutions

Place Camera Sample into Anti-Static Bag

Place Connectors into Anti-Static Bag

Label the Sample Bags

Place Connectors into Reel

Place Samples into the Carbon Box

Place Connectors into the Carbon Box

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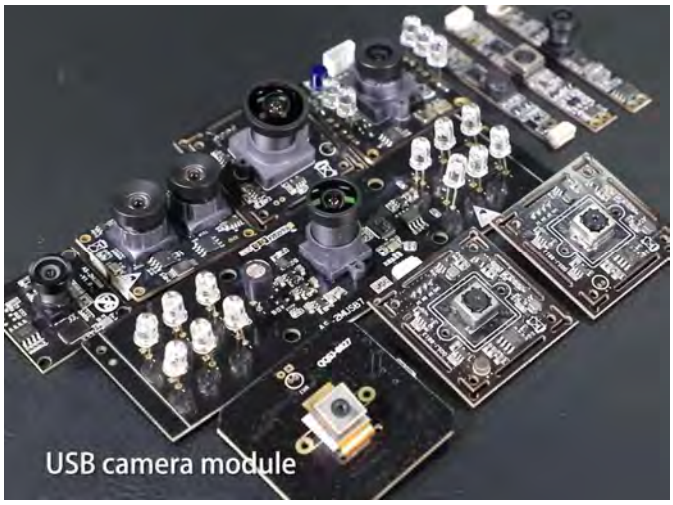
Company YDSCAM

YingDeShun Co. Ltd. (YDS) was established in 2017, a next-generation technology driven manufacturer specialized in research, design, and produce of audio and video products. YDS is occupying 20,000 square feet automated plants with 100 employees of annual throughput 30,000,000 units cameras.

YDS provides OEM, ODM design, contract manufacturing, and builds the camera products. You may provide the requirements to us, even with a hand draft, our sales and engineering work together to meet your needs. We consider ourselves your last-term partner in developing practical and innovative solutions.

Our team covers everything from initial concept development to mass produced product. YDS specializes in customized camera design, raw material, electronic engineering, firmware/software development, product testing, and packing design. Our experienced strategic supply systems offer a robust and dependable manufacturing capacity for orders of various sizes.



Limited Warranty

YDS provides the following limited warranty if you purchased the Product(s) directly from YDS company or from YDS's website www.YDSCAM.com. Product(s) purchased from other sellers or sources are not covered by this Limited Warranty. YDS guarantees that the Product(s) will be free from defects in materials and workmanship under normal use for a period of one (1) year from the date you receive the product ("Warranty Period").

For all Product(s) that contain or develop material defects in materials or workmanship during the Warranty Period, YDS will, at its sole option, either: (i) repair the Product(s); (ii) replace the Product(s) with a new or refurbished Product(s) (replacement Product(s) being of identical model or functional equivalent); or (iii) provide you a refund of the price you paid for the Product(s).

This Limited Warranty of YDS is solely limited to repair and/or replacement on the terms set forth above. YDS is not reliable or responsible for any subsequential events.

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YDS Strength

Powerful Factory

Professional Service

Promised Delivery

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