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#### KLT-USB-0709-0712 V1

#### 2MP OmniVision OV2719 Sony AR0230 M14 Fixed Focus LED Dual Lens Stereo USB 2.0 Camera Module





WLT-USB-9409-9410-V1-is a Dual Lens Stereo Type 2MP-Fixed-Focus om USB camera module based on 1/2.7" OV2710 image sensor. It delivers high-speed, 2K resolution ultra sharp image in RGB (Color) and IR (Black and White).

The S-mount (M14) lens holder enables customers to choose different lens as per varies applications. This camera module is ideal solution for face recognition, identity detection, access control.

## www.KaiLapTech.com www.KaiLapTech.com

- 2K resolution (1920 x 1080) OmniVision OV2710 sensor
- Dual lens stereo cameras (Color and Black/White)
- High speed USB 2.0 Plug and Play
- MJPG and YUV2 output format
- Low power consumption
- Compact size
- UVC compliant to Windows, Linux, OS with UVC driver
- USB OTG (On-The-Go) support





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Camera Module No.	KLT-USB-0709-0712 V1			
Resolution	2MP			
Image Sensor	OV2719 (B/W) + AR0230 (Color)			
Sensor Type	1/2.7"			
Pixel Size	3.0 um x 3.0 um			
EFL	3.00 mm			
F.NO	2.40			
www.KaiLapTech.con	า www.stoaibapTech.com			
View Angle	90° (DFOV)			
Lens Dimensions	M14			
Module Type	Fixed Focus			
Lens Model	KLT-LENS-0709-0712 V1			
Interface	USB 2.0			
Output Format	MJPG / YUV2			
Auto Control	Saturation, Contrast, Acutance			
	White Balance, Exposure			
<b>Μυσίον.</b> KaιLap Lech.con				
Input Voltage	DC 5V			
Working Current	Max 500mA			
PCB Size	80.00 x 16.00 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			
Software for USB Camera  WWW.KaiLapTech.con  Lens Type	AMCAP, Webcam Viewer, V4L2 Controls Contacam, VLC Player, MotionEye OS iSpy, ZoneMider, Yawcam 650nm IR Cut			
Operating Temperature	-30°C to +85°C			
USB Cable	KLT-Cable-U018			

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



















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Top View

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**Bottom View** 



Side View

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**Mating Connector** 





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KLT-	USB-0709-0712 V1	0709 (OV2719)	0712 (IMX230)	
FORMAT DESCRIPTION		FRAME RATE	FRAME RATE	
FORMAT	RESOLUTION	USB 2.0	USB 2.0	
	640 x 480 (VGA)	30 FPS	30 FPS	
MJPG	1280 x 720 (720P)	30 FPS	30 FPS	
\\/\\/\\/	(1080P)	30.FPS <sub>W</sub> Kail	anTecl <sup>30</sup> FPS m	
***************************************	640 x 480 (VGA)	30 FPS	30 FPS	
YUY2	1280 x 720 (720P)	10 FPS	10 FPS	
	1920 x 1080 (1080P)	5 FPS	5 FPS	







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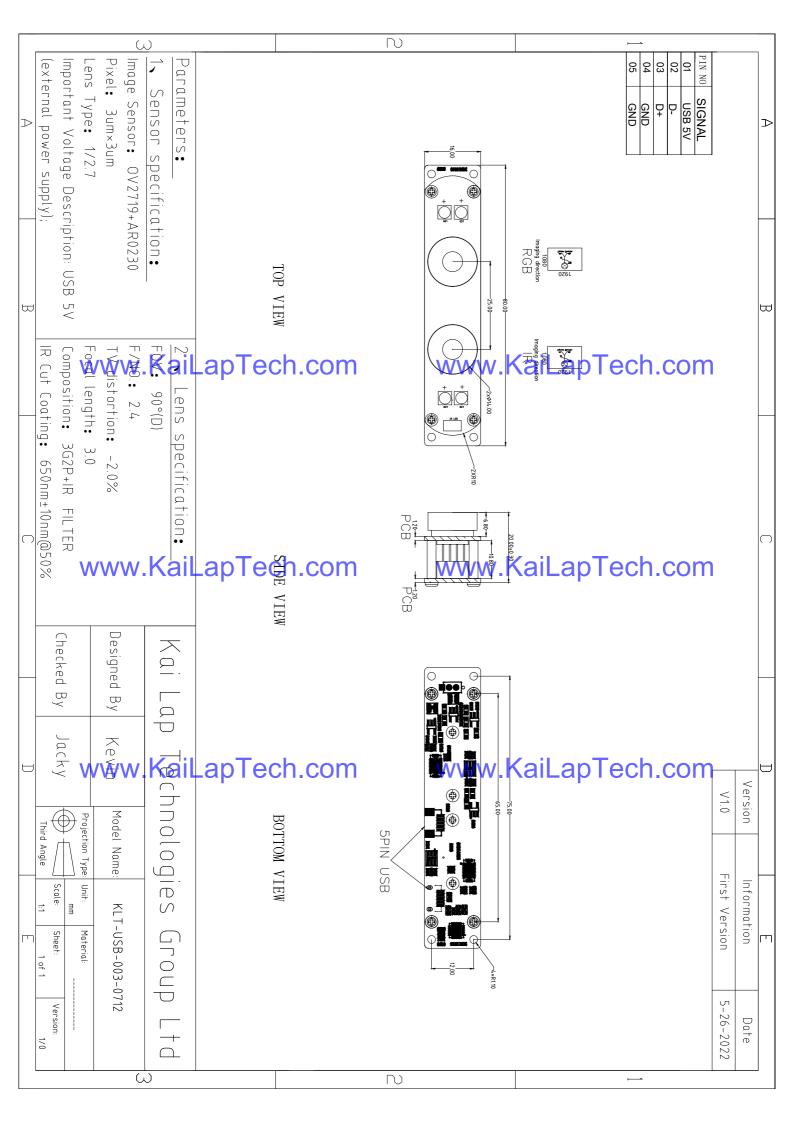




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#### **Product Overview**

#### AR0230CS: 2 MP 1/2.7" CMOS Image Sensor

For complete documentation, see the data sheet.

The AR0230CS is a 1/2.7-inch CMOS digital image sensor with an active-pixel array of 1928 (H) x1088 (V). It captures images in either linear or high dynamic range modes, with rolling-shutter readout. It includes sophisticated camera functions such as in-pixel binning, windowing and both video and single frame modes. It is designed for both low light and high dynamic range scene performance. It is programmable through a simple two wire serial interface. The AR0230CS produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for a wide range of applications, including surveillance and HD video.

#### **Features**

· High Dynamic Range

Applications V. KaiLapTech.com

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Part Electrical Specifications											
Product	Compliance	Status	Туре	Megapixel s	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0230CSSC00SUEA 0-DRBR	Pb-free Halide free	Active	CMOS	2.1	60	1/2.7 inch	Electronic Rolling and Global Reset Release	3.0 x 3.0	Multi	RGB	IBGA-80

For more information please contact your local sales support at www.onsemi.com.

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**Cameras Applications** 

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#### **Camera Reliability Test**

Reliability Inspection Item			Tanting Mathad	A Coit i -	
Category		Item	Testing Method	Acceptance Criteria	
	Storage	High 60°C 96 Hours	Temperature Chamber	No Abnormal Situation	
	Temperature	Low -20°C 96 Hours	Temperature Chamber	No Abnormal Situation	
	Operation	High 60°C 24 Hours	Temperature Chamber	No Abnormal Situation	
Environmental	Temperature	Low -20°C 24 Hours	Temperature Chamber	No Abnormal Situation	
Environmental	Humidity	60°C 80% 24 Hours	Temperature Chamber	No Abnormal Situation	
www.	KaiLapTe Thermal Shock	High 60°C 0.5 Hours Low -20°C 0.5 Hours Cycling in 24 Hours	www.KaiLap* Temperature Chamber	Tech.com  No Abnormal Situation	
	Drop Test	Without Package 60cm	10 Times on Wood Floor	Electrically Functional	
	(Free Falling)	With Package 60cm	10 Times on Wood Floor	Electrically Functional	
	Vibration Test	50Hz X-Axis 2mm 30min	Vibration Table	Electrically Functional	
Physical		50Hz Y-Axis 2mm 30min	Vibration Table	Electrically Functional	
	Voll on To	50Hz Z-Axis 2mm 30min	Vibration Table	Electrically Functional	
WWW.	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	
	ESD Test	Air Discharge 4 KV	ESD Testing Machine	Electrically Functional	
	Aging Test	On/Off 30 Seconds Cycling in 24 Hours	Power Switch	Electrically Functional	
www.	USB Connector	On/Off 250 Times	W Plug and Unplugap	Electrically Functional	













#### **Camera Inspection Standard**

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





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## **KLT Package Solutions**

KLT Camera Module



Tray with Grid and Space



Complete with Lens Protection Film



Place Cameras on the Tray







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## **Camera Modules Package Solution**

**Full Tray of Cameras** 



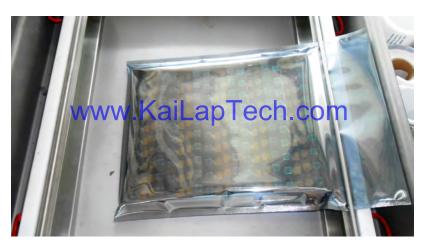
Put Tray into Anti-Static Bag



Cover Tray with Lid



Vacuum the Anti-Static Bag







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## **Camera Modules Package Solution**

**Sealed Vacuum Bag with Labels** 1. Model and Description 2. Quantity 3. Shipping Date 4. Caution







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## **Large Order Package Solution**

Place Foam Sheets Between Trays

Foam Sheets are Slightly Larger than Trays





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Place Foam Sheets and Trays into Box

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Foam Sheets are Tightly Fitting Box









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## **Small Order Package Solution**

Place Foam Sheets and Trays into Small Box

Foam Sheets are Nicely Fitting the Small Box



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Package in Small Box for Shipment



Place Small Boxes into Larger Box









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## **Carbon Box Package Solution**

Seal the Carbon Box

Final Package Labelled Box





1. Delivery Address and Phone No. 2. Box No. and Ship Date 3. Fragile Caution







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## **Sample Order Package Solution**

Place Sample into Small Anti-Static Bag

Place Connectors into Small Ant-Static Bag





Sample Labels on the Small Bag 1. Camera Module or Connector Model 2. Shipping Date and Quantity 3. Caution







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## **Connectors Large Order Package Solution**

Connectors in a Wheel







The Wheel is Perfectly Fitting the Box

Connectors Box Ready for Shipment









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#### Company Kai Lap Technologies (KLT)

Kai Lap Technologies Group Limited. (KLT) was established in 2009, a next-generation technology driven manufacturer specialized in research, design, and produce of audio and video products. KLT is occupying 20,000 square feet automated plants with 100 employees of annual throughput 30,000,000 units cameras.

KLT 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. KLT 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**

KLT provides the following limited warranty if you purchased the Product(s) directly from KLT company or from KLT's website, <a href="www.KaiLapTech.com">www.KaiLapTech.com</a>. Product(s) purchased from other sellers or sources are not covered by this Limited Warranty. KLT 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 of workmanship during the Warranty Reriod, KLT 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 KLT is solely limited to repair and/or replacement on the terms set forth above. KLT is not reliable or responsible for any subsequential events.

















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#### **KLT Strength**

#### **Powerful Factory**





#### **Professional Service**







#### **Promised Delivery**





