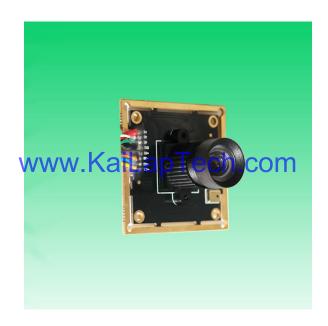




your BEST camera module partner

KLT-USB-1061 V1

8MP 1061 Sony IMX179 M12 Fixed Focus USB 3.0 Camera Module





KLT-USB-1061 VITIS an 8MP Fixed Focus USB 3.0 camera module based on 1/3.2" IMX179 image sensor. It delivers high-speed, 4K resolution ultra sharp image.

The S-mount (M12) lens holder enables customers to choose different lens as per varies applications. This camera module is ideal solution for face recognition, identity detection, automotive, access control.

Key Features

www.KaiLapTech.com
 4K resolution (3264 x 2448) Sony IMX179 sensor

- High speed USB 3.0 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-1061 V1		
Resolution	8MP		
Image Sensor	IMX179		
Sensor Type	1/3.2"		
Pixel Size	1.4 um x 1.4 um		
EFL	3.50 mm		
F.NO WWW.KaiLapTech.com	3.50 www ₃₂₆₄ a <u>148</u> p Tech.con		
View Angle	80°(DFOV)		
Lens Dimensions	13.80 x 13.80 x 23.11 mm		
Module Type	Fixed Focus		
Lens Model	KLT-LENS-1061 V1		
Interface	USB 3.0		
Output Format	MJPG / YUV2		
Auto Control WWW KaiLapTech.com Audio (Optional)	Saturation, Contrast, Acutance White Balance, Exposure WWW. AJL 30 FECH.COM Digital Microphone		
Input Voltage	DC 5V		
Working Current	Max 200mA		
PCB Size	38 x 38 mm / 32 x 32 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.KaiLap Tech.com	AMCAP, Webcam Viewer, V4L2 Controls Contacam, VLC Player, MotionEye OS ISpy, ZoneMider, Vawcam CD.COM		
Lens Type	650nm IR Cut		
Operating Temperature	-15°C to +65°C		
USB Cable	Direct Soldering Cable		

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



















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KLT-USB-1061 V1 8MP 1061 Sony IMX179 M12 Fixed Focus USB 3.0 Camera Module



Top View

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Bottom View



Side View

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Mating Connector





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KLT-USB-1061 V1 8MP 1061 Sony IMX179 M12 Fixed Focus USB 3.0 Camera Module

FORMAT	RESOLUTION	FRAME RATE
FORMAT	RESOLUTION	USB 3.0 / USB 2.0
MJPG www.KaiLapTech	640 x 480 (VGA)	30 FPS
	1280 x 720 (720P)	30 FPS
	1920 x 1080 (1080P)	30 FPS
	2592 x 1944 (5MP)	25 FPS
	Tech cor ³²⁶⁴ x ²⁴⁴⁸ (8MP)	Kail and FPSch com
	640 x 480 (VGA)	30 FPS
	1280 x 720 (720P)	30 FPS
YUY2	1920 x 1080 (1080P)	30 FPS
	2592 x 1944 (5MP)	25 FPS
	3264 x 2448 (8MP)	15 FPS







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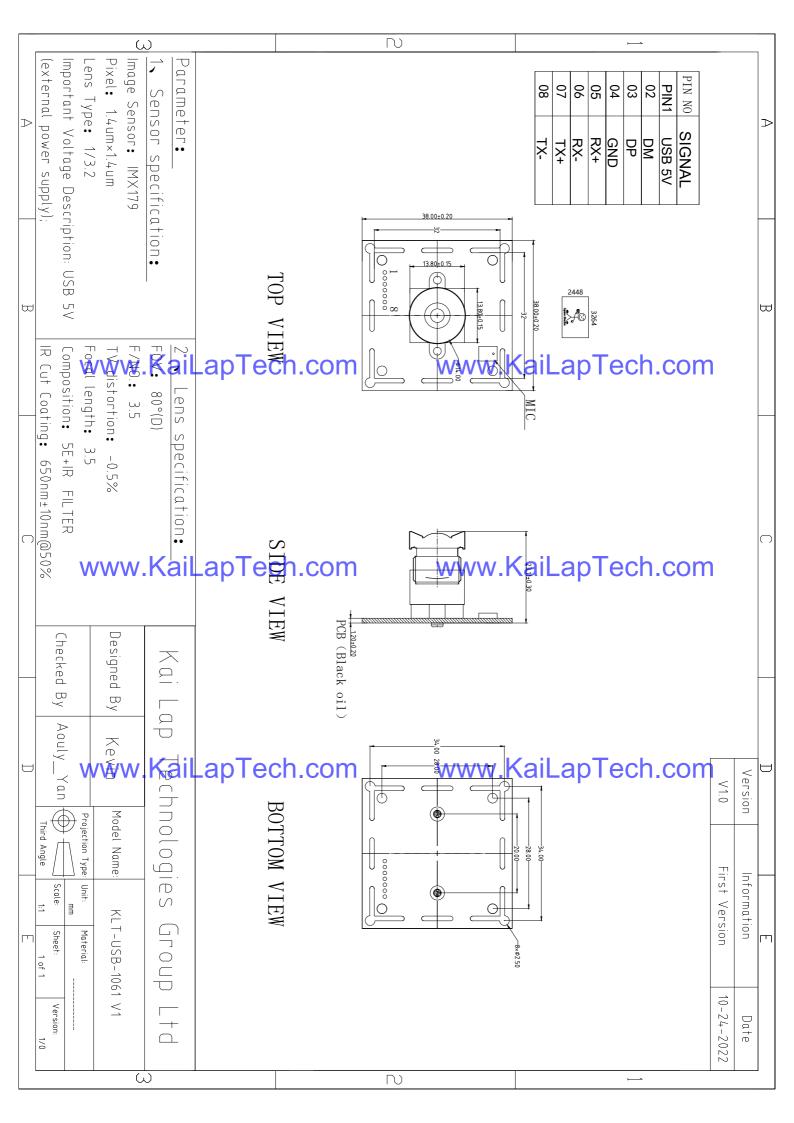




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SONY

[Product Brief]

Ver.1.0

IMX179

Diagonal 5.7mm (Type 1/3.2) CMOS Image Sensor with Square Pixel for Color Cameras

Description

The IMX179 is a diagonal 5.7 mm (Type 1/3.2) CMOS active pixel type image sensor with a square pixel array and 8.08M effective pixels. This chip operates with three power supplies, analogue 2.7 V, digital 1.2 V, and IF 1.8 V, 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 pigment mosaic filters. This chip features an electronic shutter with variable charge-storage

In addition, this product is designed for use in cellular phone and tablet PC. When using this for another application, Sony does not guarantee the quality and reliability of product.

Therefore, don't use this for applications other than cellular phone and tablet PC. Consult your Sony sales representative if you have any questions.

Functions and Features

- ◆ CMOS active pixel type dots
- ◆ 2-wire serial communication circuit on chip
- CSI2 serial data output

WWw.ming.generator, Pl and Oriver circuits on chip

www.KaiLapTech.com

- ◆ CDS/PGA on chip
- ◆ 10-bit A/D converter on chip
- Automatic optical black (OB) clamp circuit on chip
- ◆ PLL on chip (rectangular wave/sine wave)
- High sensitivity, low dark current, no smear
- Excellent anti-blooming characteristics
- Variable-speed shutter function (1H units)
- ♠ R, G, B primary color pigment mosaic filters on chip
- ♦ Max. 30 frame/s in all-pixel scan mode

WVVVPixel rate: >260 MHz (>30 frame/sat All-pixel mode)

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SONY IMX179

Device Structure

CMOS image sensor

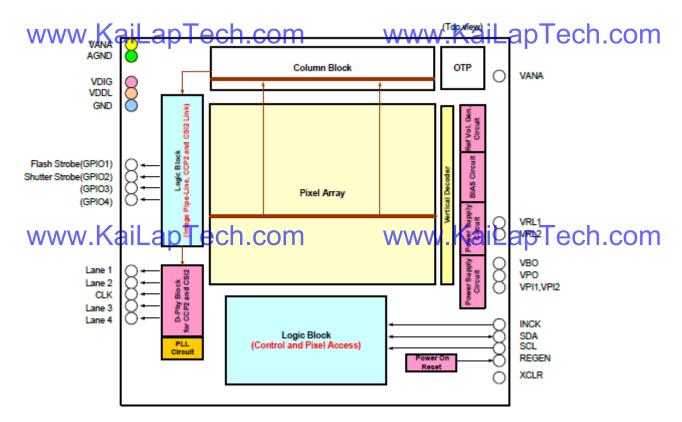
♦ Image size : Diagonal 5.7 mm (Type 1/3.2)

◆ Total number of pixels
 ÷ 3288 (H) × 2512 (V) approx. 8.26M pixels
 ♦ Number of effective pixels
 : 3280 (H) × 2464 (V) approx. 8.08M pixels

◆ Chip size : 6.18 mm (H) × 5.85 mm (V)
 ◆ Unit cell size : 1.4μm (H) × 1.4μm (V)

◆ Substrate material : Silicon

Block Diagram



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www.KaiLapTech.com

ExmorR

Sony reserves the right to change products and specifications without prior notice.

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Application circuits shown, if any, are typical examples illustrating the operation of the devices. Sony cannot assume responsibility for any problems arising out of the use of these circuits.

^{*} Exmor R is a trademark of Sony Corporation. The Exmor R is a Sony's CMOS image sensor with significantly enhanced imaging characteristics including sensitivity and low noise by changing fundamental structure of ExmorTM pixel adopted column parallel A/D converter to back-illuminated type.





Cameras Applications

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Camera Reliability Test

Reliability Inspection Item		Tanting Mathad	A to u Cuitoui -		
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 Temperature	High 60°C 24 Hours	Temperature Chamber	No Abnormal Situation	
Environmental		Low -20°C 24 Hours	Temperature Chamber	No Abnormal Situation	
Environmental WWW.	Humidity	60°C 80% 24 Hours	Temperature Chamber	No Abnormal Situation	
	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	
	(Froe Folling)	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 Cable Tensile Strength Test Cable Tensile Coading 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	
WWW WSB Connector C On/Off 250 Times		W Plug and Unplugap	Electrically Functional		













Camera Inspection Standard

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Inspection Item			0, 1, 1, 1,		
Category		Item	Inspection Method	Standard of Inspection	
	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)	
		Scratches	The Naked Eye	The Inside Crack Exposure is Not Allowed	
	Holder	Gap	The Naked Eye	Meet the Height Standard	
Appearance		Screw	The Naked Eye	Make Sure Screws Are Presented (If Any)	
WW	w.KaiL	apTemp.con	Π The Naked ₩χον\	The Inside Crack Exposure is Not Allowed	
		Scratch	The Naked Eye	No Effect On Resolution Standard	
	Lone	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.	
	w.KaiL	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	
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		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	
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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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



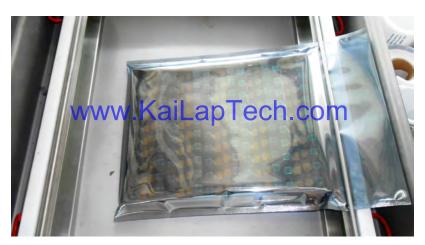
Put Tray into Anti-Static Bag



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





www.KaiLapTech.com

Place Foam Sheets and Trays into Box

www.KaiLapTech.com

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, www.KaiLapTech.com. 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





