



your BEST camera module partner

KLT-USB-0662 V1

1MP Silicon Optronics JX-H62 M12 Fixed Focus USB 2.0 Camera Module





KLT-USB-9662 V1Tis a 1MP Fixed Focus USB camera module based on 1/4" JX-H62 image sensor. It delivers high-speed, 720P resolution clear 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
 720P resolution (1280 x 720) Silicon Optronics JX-H62 sensor

- 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





your BEST camera module partner

KLT-USB-0662 V1

1MP Silicon Optronics JX-H62 M12 Fixed Focus USB 2.0 Camera Module

Camera Module No.	KLT-USB-0662 V1	
Resolution	1MP	
Image Sensor	JX-H62	
Sensor Type	1/4"	
Pixel Size	3.0 um x 3.0 um	
EFL	3.00 mm	
F.NO	2.40	
www.KaiLapTech.com	n www.2802il/20pTech.com	
View Angle	75°(DFOV)	
Lens Dimensions	13.80 x 13.80 x 16.90 mm	
Module Type	Fixed Focus	
Lens Model	KLT-LENS-0662 V1	
Interface	USB 2.0	
Output Format	MJPG / YUV2	
Auto Control	Saturation, Contrast, Acutance	
Mandin Koil an Took oom	White Balance, Exposure	
MANGINATION MANGINE MA	n www.MeniLapTech.com DC 5∨	
-	Max 500mA	
Working Current PCB Size	32 x 32 mm	
PCB Size		
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.com	AMCAP, Webcam Viewer, V4L2 Controls Contacam, VLC Player, MotionEye OS iSpy, ZoneMider, Yawcam	
Lens Type	650nm IR Cut	
Operating Temperature	-30°C to +85°C	
USB Cable	KLT-Cable-U015	

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



















your BEST camera module partner

KLT-USB-0662 V1

1MP Silicon Optronics JX-H62 M12 Fixed Focus USB 2.0 Camera Module



Top View

www.KaiLapTech.com



Bottom View



Side View

www.KaiLapTech.com



Mating Connector



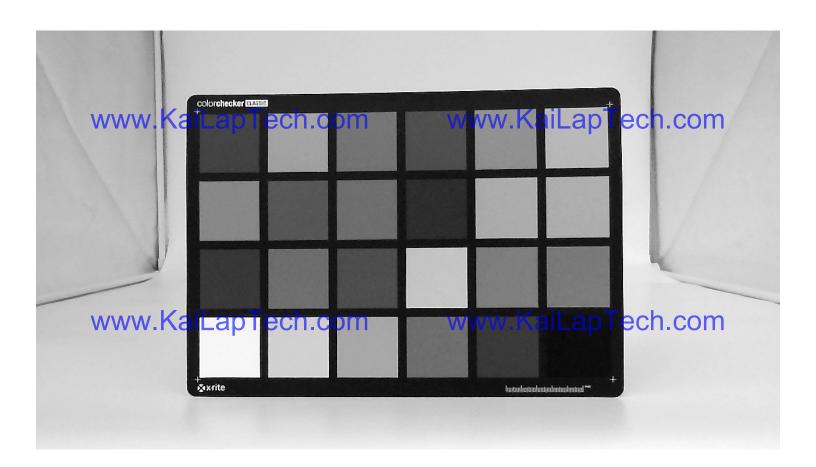


your BEST camera module partner

KLT-USB-0662 V1

1MP Silicon Optronics JX-H62 M12 Fixed Focus USB 2.0 Camera Module

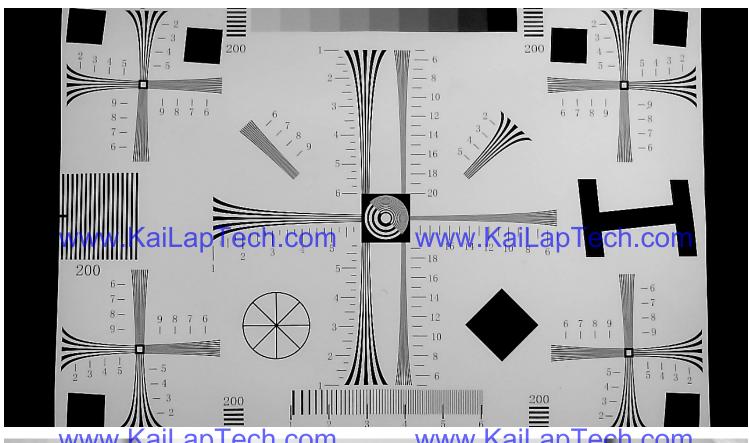
FORMAT	DESOLUTION	FRAME RATE
	RESOLUTION	USB 2.0
MJPG	640 x 480 (VGA)	30 FPS
	1280 x 720 (720P)	30 FPS
YUY2 www.KaiLapTech	640 x 480 (VGA)	30 FPS
	CO11280 x 720 (720R) WW	KaiLad¶FEch.com

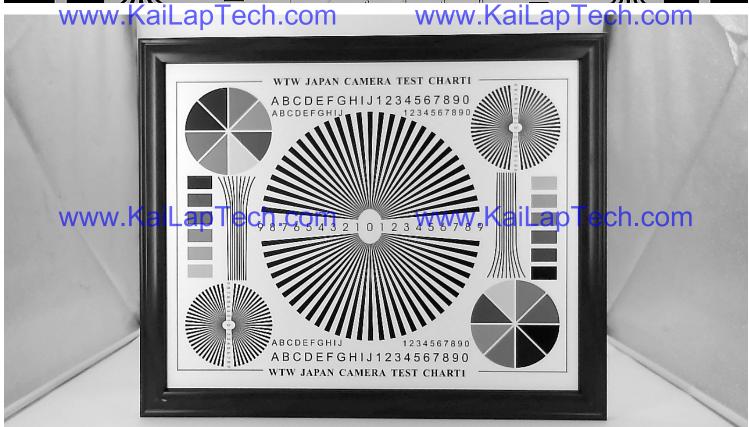






your BEST camera module partner









your BEST camera module partner

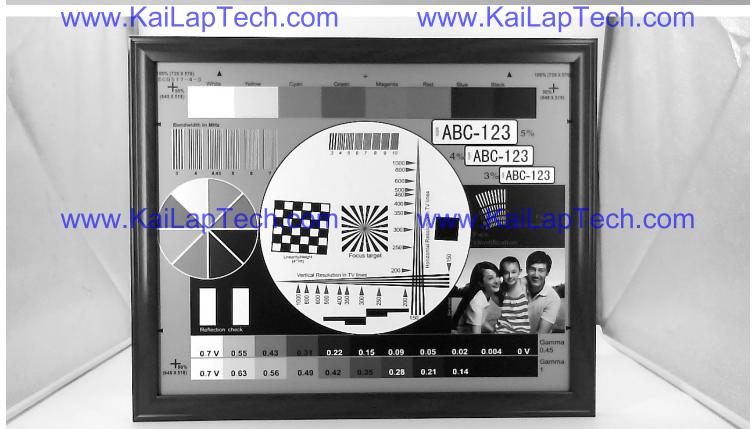


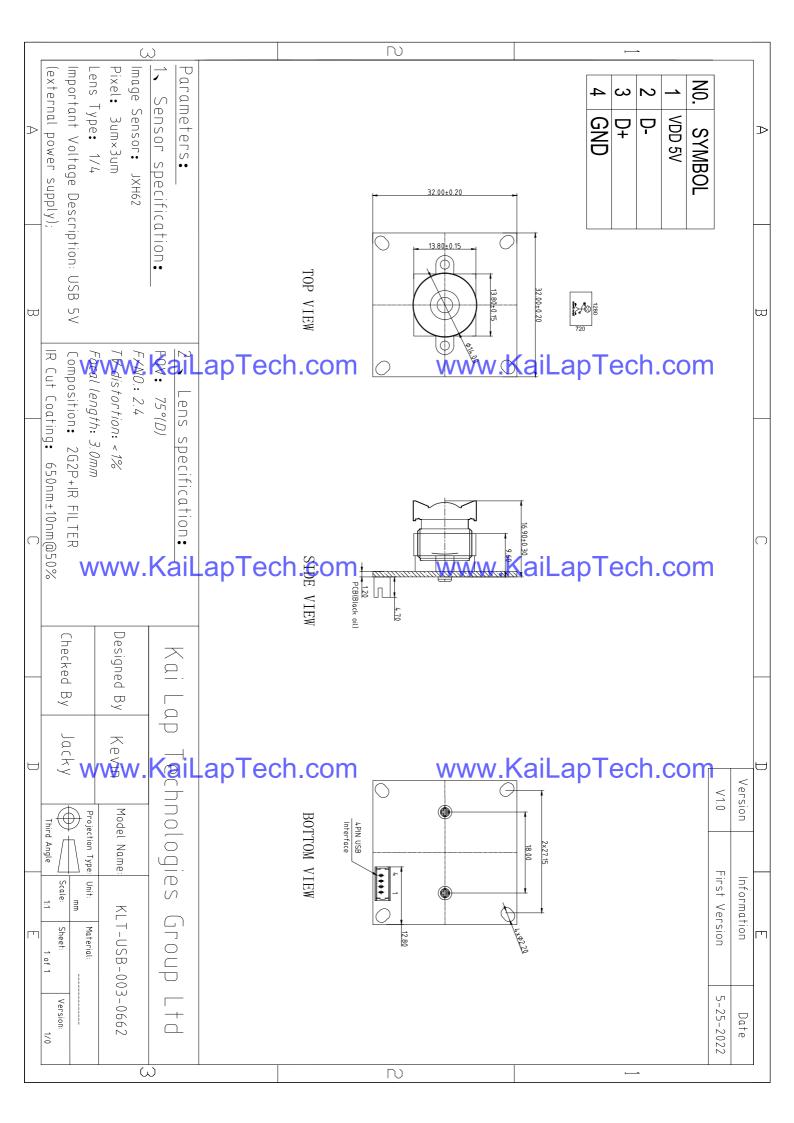




your BEST camera module partner









General Description:

JX-H62 is an HD CMOS image sensor designed with a superior 3.0µm pixel with excellent low-light sensitivity and low dark current performance. It features a 30fps native high definition (HD) 720p video capability for camera applications in PC multimedia, security, and entertainment devices.

The JX-H62 consists of a 1296x732 active pixel sensor (APS) array with an on-chip 10-bit ADC, programmable gain control (PGA), and correlated double sampling (CDS) to significantly reduce fixed pattern noise (FPN). The sensor also has many standard programmable and automatic functions. It has both the industry compliant DVP parallel and MPI CS12 serial interfaces. The external host controller can access this device through a standard serial interface.

It is available in wafer-level packaged CSP.

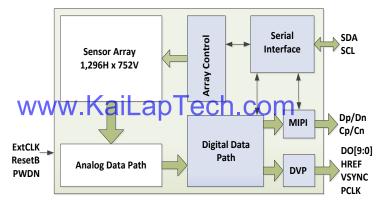
Features:

- · Automatic functions:
 - o AEC Automatic Exposure Control
 - o AGC Automatic Gain Control
 - o ABLC Automatic Black Level Calibration
- Programmable controls:
 - W// Gain, exposure, frame rate and Size . COM
 - o Image mirror and flip
 - o Window panning and cropping
 - o I2C slave ID
- · Output formats:
 - o DVP parallel interface
 - o MIPI CSI2 1 Lane
- Data formats:
 - o 10-bit RAW RGB
- Others
 - o 50/60Hz flick noise cancellation
 - o Register group write capability
 - Frame synchronization Tech.com

Key Specifications:

Optical format		1/4"	
Active Pixels		1296H x 732V	
Pixel size		3.0 x 3.0 µm	
Color filter array		RGB Bayer pattern	
Chief Ray Angle		17.5 degrees linear	
Shutter type		Electronic rolling shutter	
Maximum Frame	Rate	30fps	
WWW.K	Digital 3	1 35-0.65V (1.5V nominal)	
Supply voltage	Analog	2.6 - 3.0V (2.8V nominal)	
	I/O	1.7 – 3.0V (1.8V nominal)	
Power	Active	45mA	
consumption	Standby	< 300 μΑ	
Output Formats		10-bit RGB Raw Data	
Sensitivity		TBD mV/lux-sec	
Max SNR		TBD db	
Dynamic Range		TBD db	
Dark Current		<tbd 45c<="" @="" mv="" sec="" th=""></tbd>	
Operating KaiLap junction temperature		-₹ees:com	
Stable image junction temperature		TBD	

Functional Block:



Component Order Information:

Part Number	Description
JX-H62-C1	CSP





Cameras Applications

your BEST camera module partner







your BEST camera module partner

Camera Reliability Test

Reliability Inspection Item		Tanting Mathad	A to Crittoria		
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	www.KaiLap	Tech.com No Abnormal Situation	
	Triomar Cricox	Cycling in 24 Hours	Tomporatare Griamoor	Tre Albridania Gradulari	
	Drop Test	Without Package 60cm	10 Times on Wood Floor	Electrically Functional	
	(Free Falling) With Package 60cm		10 Times on Wood Floor	Electrically Functional	
		50Hz X-Axis 2mm 30min	Vibration Table	Electrically Functional	
Physical	Vibration Test	50Hz Y-Axis 2mm 30min	Vibration Table	Electrically Functional	
	l/oil 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	
		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

your BEST camera module partner

Inspection Item			0		
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	
	Holder	Gap	The Naked Eye	Meet the Height Standard	
Appearance	Holdel	Screw	The Naked Eye	Make Sure Screws Are Presented (If Any)	
WW	w.KaiL	ap Temp.con	Π The Naked Εγοινί	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	
VV VV		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	
Dillici		Length	The Naked Eye	Follows Approval Data Sheet	
		Overall	The Naked Eye	Follows Approval Data Sheet	





your BEST camera module partner

KLT Package Solutions

KLT Camera Module



Tray with Grid and Space



Complete with Lens Protection Film



Place Cameras on the Tray







your BEST camera module partner

Camera Modules Package Solution

Full Tray of Cameras



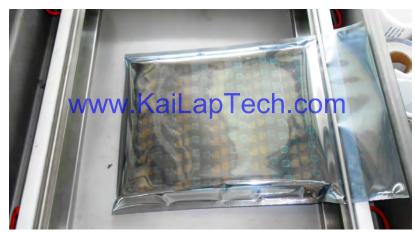
Put Tray into Anti-Static Bag



Cover Tray with Lid



Vacuum the Anti-Static Bag







your BEST camera module partner

Camera Modules Package Solution

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







your BEST camera module partner

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









your BEST camera module partner

Small Order Package Solution

Place Foam Sheets and Trays into Small Box

Foam Sheets are Nicely Fitting the Small Box



www.KaiLapTech.com

Package in Small Box for Shipment



Place Small Boxes into Larger Box









your BEST camera module partner

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







your BEST camera module partner

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







your BEST camera module partner

Connectors Large Order Package Solution

Connectors in a Wheel







The Wheel is Perfectly Fitting the Box

Connectors Box Ready for Shipment









your BEST camera module partner

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.

















your BEST camera module partner

KLT Strength

Powerful Factory





Professional Service







Promised Delivery





