



your BEST camera module partner

KLT-Y5MF-OV9714 V1.0

1MP OmniVision OV9714 MIPI Interface Fixed Focus Camera Module





Front View

Back View

Specifications

Camera Module No.	KLT-Y5MF-OV9714 V1.0				
Resolution	1MP				
Image Sensor	OV9714				
Sensor Type	1/4"				
Pixel Size	3.0 um x 3.0 um				
EFL	3.29 mm				
F.NO	2.80				
Pixel	1296 x 816				
View Angle	68.7°(DFOV) 58.1°(HFOV) 45.0°(VFOV)				
Lens Dimensions	8.00 x 8.00 x 5.55 mm				
Module Size	8.00 x 8.00 mm				
Module Type	Fixed Focus				
Interface	MIPI				
Auto Focus VCM Driver IC	None				
Lens Model	KLT-LENS-M5101				
Lens Type	650nm IR Cut				
Operating Temperature	-30°C to +85°C				
Mating Connector	AXT524124				





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KLT-Y5MF-OV9714 V1.0 1MP OmniVision OV9714 MIPI Interface Fixed Focus Camera Module



Top View



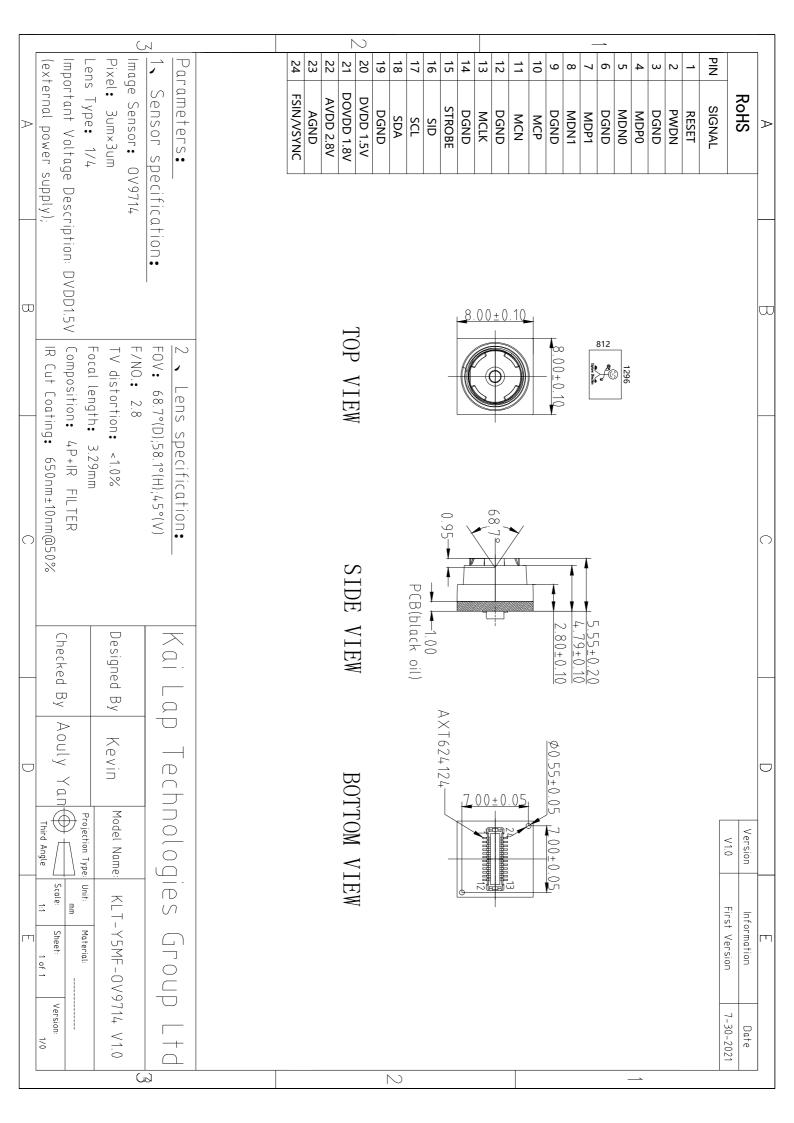
Side View



Bottom View



Mating Connector







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Lens Model: KLT-LENS-M5101

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Panasonic

NARROW-PITCH. THIN AND SLIM CONNECTOR FOR BOARD-TO-FPC CONNECTION

NARROW PITCH (0.4 mm) CONNECTORS F4S SERIÉS

ideas for life







Compliance with RoHS Directive

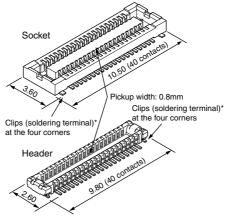
FEATURES

1. Space-saving (3.6 mm widthwise) The required space is smaller than our

F4 series (40-contact type): Socket — 27% smaller,

Header — 38% smaller

The small size contributes to the miniaturization of target equipment.

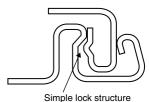


* Clips for preventing the solder joints from being removed

2. Highly reliable TDUGH CONTRCT has strong resistance to adverse environments.

(See Page 6 for details of the structure) Note: If extra resistance to shock caused by dropping is required, we recommend using our previous F4 Series.

3. The simple lock structure gives tactile feedback that ensures a superior mating/unmating operation feel.



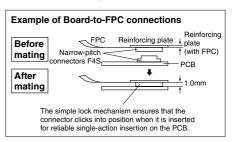
4. Gull-wing type terminals

The gull-wing type terminals facilitate automatic mounting inspections.

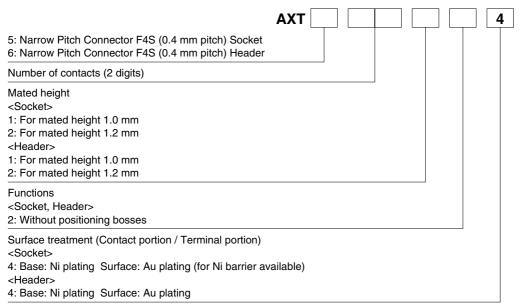
5. Connectors for inspection available Connectors for inspection are available that are ideal for modular unit inspection and inspection in device assembly processes.

APPLICATIONS

Compact portable devices "Cellular phones, DVC, Digital cameras, etc"



ORDERING INFORMATION



Note: Please note that models with a mated height of 1.0 mm (7th digit of part number is "1") and 1.2 mm (7th digit of part number is "2") are not compatible.

AXT5, 6

PRODUCT TYPES *TOUGH CONTACT

Mated beight	Number of contacts	Part r	number	Packing		
Mated height	Number of contacts	Socket	Header	Inner carton	Outer carton	
	10	AXT510124	AXT610124			
	12	AXT512124	AXT612124			
	14	AXT514124	AXT614124			
	16	AXT516124	AXT616124			
	18	AXT518124	AXT618124			
	20	AXT520124	AXT620124			
	22	AXT522124	AXT622124			
	24	AXT524124	AXT624124			
	26	AXT526124	AXT626124			
	28	AXT528124	AXT628124			
	30	AXT530124	AXT630124			
	32 34	AXT532124	AXT632124			
1.0mm		AXT534124	AXT634124			
1.0111111	36	AXT536124	AXT636124			
	38	AXT538124	AXT638124			
	40	AXT540124	AXT640124	3,000 pieces	6,000 pieces	
	42	AXT542124	AXT642124			
	44	AXT544124	AXT644124			
	46	AXT546124	AXT646124			
	48	AXT548124	AXT648124			
	50	AXT550124	AXT650124			
	54	AXT554124	AXT654124			
	60	AXT560124	AXT660124			
	64	AXT564124	AXT664124			
	70	AXT570124	AXT670124			
	80	AXT580124	AXT680124			
	10	AXT510224	AXT610224			
	30	AXT530224	AXT630224			
1.2mm	40	AXT540224	AXT640224			
	50	AXT550224	AXT650224			
	80	AXT580224	AXT680224			

Notes: 1. Order unit: For mass production: in 1-inner-box (1-reel) units

Samples for mounting check: in 50-connector units. Please contact our sales office.

Samples: Small lot orders are possible. Please contact our sales office.

The above part numbers are for connectors without positioning bosses, which are standard. When ordering connectors with positioning bosses, please contact our sales office.
 Please contact us for connectors having a number of contacts other than those listed above.

SPECIFICATIONS

1. Characteristics

	Item	Specifications	Conditions
	Rated current	0.3A/contact (Max. 5 A at total contacts)	
Electrical characteristics	Rated voltage	60V AC/DC	
	Breakdown voltage	150V AC for 1 min.	No short-circuiting or damage at a detection current of 1 mA when the specified voltage is applied for one minute.
	Insulation resistance	Min. 1,000MΩ (initial)	Using 250V DC megger (applied for 1 min.)
	Contact resistance	Max. 90mΩ	Based on the contact resistance measurement method specified by JIS C 5402.
	Composite insertion force	Max. 0.981N/contacts × contacts (initial)	
Mechanical	Composite removal force	Min. 0.165N/contacts × contacts	
characteristics	Contact holding force (Socket contact)	Min. 0.49N/contacts	Measuring the maximum force. As the contact is axially pull out.
	Ambient temperature	−55°C to +85°C	No freezing at low temperatures. No dew condensation.
	Soldering heat resistance	Peak temperature: 260°C or less (on the surface of the PC board around the connector terminals)	Infrared reflow soldering
		300°C within 5 sec. 350°C within 3 sec.	Soldering iron
	Storage temperature	-55°C to +85°C (product only) -40°C to +50°C (emboss packing)	No freezing at low temperatures. No dew condensation.
Environmental characteristics	Thermal shock resistance (header and socket mated)	5 cycles, insulation resistance min. 100M Ω , contact resistance max. $90m\Omega$	Sequence 155.3°C, 30 minutes 2. ~, Max. 5 minutes 3.85*3°C, 30 minutes 4. ~, Max. 5 minutes
	Humidity resistance (header and socket mated)	120 hours, insulation resistance min. 100M Ω , contact resistance max. $90m\Omega$	Bath temperature 40±2°C, humidity 90 to 95% R.H.
	Saltwater spray resistance (header and socket mated)	24 hours, insulation resistance min. 100M Ω , contact resistance max. 90m Ω	Bath temperature 35±2°C, saltwater concentration 5±1%
	H ₂ S resistance (header and socket mated)	48 hours, contact resistance max. 90mΩ	Bath temperature 40±2°C, gas concentration 3±1 ppm, humidity 75 to 80% R.H.
Lifetime characteristics Insertion and removal life		50 times	Repeated insertion and removal speed of max. 200 times/ hours
Unit weight		20-contact type: Socket: 0.03 g Header: 0.01 g	

2. Material and surface treatment

Part name	Material	Surface treatment
Molded portion	LCP resin (UL94V-0)	
Contact and Post	Copper alloy	Contact portion: Base: Ni plating Surface: Au plating Terminal portion: Base: Ni plating Surface: Au plating (except the terminal tips) The socket terminals close to the portion to be soldered have nickel barriers (exposed nickel portions). Metal clips: Sockets: Base: Ni plating Surface: Pd+Au flash plating (except the terminal tips) Headers: Base: Ni plating Surface: Au plating (except the terminal tips)

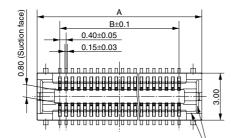
DIMENSIONS (Unit: mm)

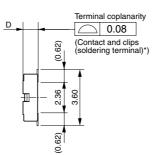
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The CAD data of the products with a CAD Data mark can be downloaded from: http://panasonic-electric-works.net/ac

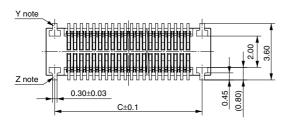
Socket (Mated height: 1.0 mm and 1.2 mm)











General tolerance: ±0.2

Mated height/ dimension	D
1.0mm	0.97
1.2mm	1.17

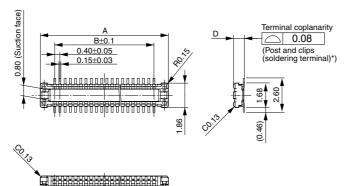
Dimension table (mm)

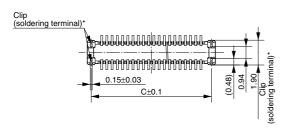
oldasi fiolofication	··· <i>'</i>		
Number of contacts/ dimension	А	В	С
10	4.5	1.6	3.4
12	4.9	2.0	3.8
14	5.3	2.4	4.2
16	5.7	2.8	4.6
18	6.1	3.2	5.0
20	6.5	3.6	5.4
22	6.9	4.0	5.8
24	7.3	4.4	6.2
26	7.7	4.8	6.6
28	8.1	5.2	7.0
30	8.5	5.6	7.4
32	8.9	6.0	7.8
34	9.3	6.4	8.2
36	9.7	6.8	8.6
38	10.1	7.2	9.0
40	10.5	7.6	9.4
42	10.9	8.0	9.8
44	11.3	8.4	10.2
46	11.7	8.8	10.6
48	12.1	9.2	11.0
50	12.5	9.6	11.4
54	13.3	10.4	12.2
60	14.5	11.6	13.4
64	15.3	12.4	14.2
70	16.5	13.6	15.4
80	18.5	15.6	17.4

Note: Since the clip (soldering terminal)* has a single-piece construction, sections Y and Z are electrically connected.

Header (Mated height: 1.0 mm and 1.2 mm)







General tolerance: ±0.2

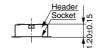
Mated height/ dimension	D
1.0mm	0.83
1.2mm	1.01

Dimension table (mm)

Difficiliation table (min)								
Number of contacts/ dimension	А	В	С					
10	3.8	1.6	3.2					
12	4.2	2.0	3.6					
14	4.6	2.4	4.0					
16	5.0	2.8	4.4					
18	5.4	3.2	4.8					
20	5.8	3.6	5.2					
22	6.2	4.0	5.6					
24	6.6	4.4	6.0					
26	7.0	4.8	6.4					
28	7.4	5.2	6.8					
30	7.8	5.6	7.2					
32	8.2	6.0	7.6					
34	8.6	6.4	8.0					
36	9.0	6.8	8.4					
38	9.4	7.2	8.8					
40	9.8	7.6	9.2					
42	10.2	8.0	9.6					
44	10.6	8.4	10.0					
46	11.0	8.8	10.4					
48	11.4	9.2	10.8					
50	11.8	9.6	11.2					
54	12.6	10.4	12.0					
60	13.8	11.6	13.2					
64	14.6	12.4	14.0					
70	15.8	13.6	15.2					
80	17.8	15.6	17.2					

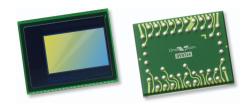
Socket and Header are mated





Mated height: 1.0 mm

Mated height: 1.2 mm



OV9714 720p product brief





available in a lead-free package

Native High Definition OV9714 CameraChip™ With Improved Dynamic Range and 720p/60 Video

The 1/4-inch OV9714 is a native high-definition (HD) image sensor capable of capturing high quality 720p video at 60 frames per second (fps) or cropped VGA at 120 fps. Built on an enhanced OmniPixel3-HS™ pixel, the OV9714 combines excellent low-light performance of 3300 mV/lux-sec and high dynamic range (HDR) with fast frame rates, making it ideally suited for entertainment, notebook, telepresence and high-end security applications.

The sensor's new and improved OmniPixel3-HS pixel architecture offers better low-light sensitivity, signal to noise ratio (SNR) performance and a 5 dB improvement in dynamic range compared to the previous generation. The OV9714's 12-bit RGB RAW output capability

provides optimized HDR, while the embedded sequential line- or frame-based HDR features allow higher dynamic range for high-contrast scenes often encountered indoors.

The OV9714's fast frame rate minimizes latency delay, resulting in quick response time for interactive gaming and real-time communication applications. Additionally, the sensor offers frame synchronization functionality for use in 3D (stereo) camera systems.

The sensor comes with a standard 2-lane MIPI interface and fits into an $8 \times 6 \times 4.5$ mm module size.

Find out more at www.ovt.com.



Applications

- PC Multimedia
- Tablets
- Security

- Entertainment
- Cellular and Mobile Phones
- Games

Product Features

- automatic black level calibration (ABLC) support 2x2 binning
- programmable controls for frame rate, mirror and flip, cropping and windowing
- image quality controls: lens correction and defective pixel canceling
- supports output formats: 8/10/12-bit RAW RGB (MIPI/LVDS)
- supports horizontal and vertical sub-sampling
- supports images sizes: 1280x800, 640x400, 320x200, and 160x100
- fast mode switching

- standard serial SCCB interface
- two-lane MIPI/LVDS serial output interface
- embedded 256 bits one-time programmable (OTP) memory for part identification, etc.
- on-chip phase lock loop (PLL)
- programmable I/O drive capability
- built-in 1.5V regulator for core
- support alternate frame HDR/line HDR

0V9714



■ 0V09714-A49A (color, lead-free, 49-pin CSP3)

Product Specifications

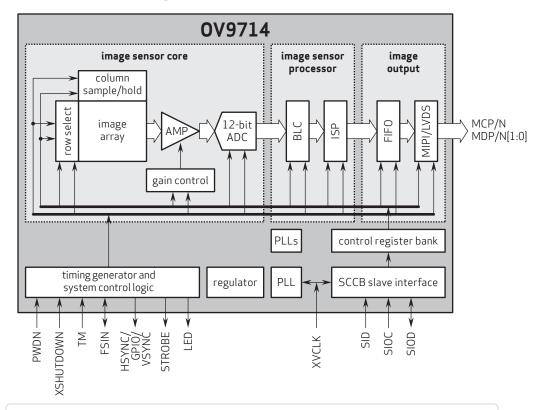
- active array size: 1296 x 812

- power supply: core: 1.5 VDC ±5% analog: 2.6 3.0V I/O: 1.7 3.0V
- power requirements:
 - active: 95 mA standby: 30 μA xshutdown: 5 μA

- temperature range: operating: -30°C to 85°C junction temperature
- stable image: 0°C to 50°C junction temperature
- output formats: 12-bit RGB RAW
- lens size: 1/4"
- lens chief ray angle: 28.7° non-linear
- input clock frequency: 6 27 MHz

- max S/N ratio: 39 dB
- dynamic range: 73 dB @ 8x gain
- maximum image transfer rate: -1280x800: 60 fps
- -640x400:120 fps
- **320x200:** 240 fps
- sensitivity: 3300 mV/lux-sec
- scan mode: progressive
- maximum exposure interval: 800 x t_{ROW}
- pixel size: 3.0 µm x 3.0 µm
- dark current: 2.3 mV/s @ 50°C junction temperature
- image area: 3936 µm x 2460 µm
- package dimensions: 6110 µm x 4930 µm

Functional Block Diagram



4275 Burton Drive Santa Clara, CA 95054

Tel: +1 408 567 3000 Fax: +1 408 567 3001 www.ovt.com

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Camera Module Pinout Definition Reference Chart

OmniVision Sony Samsung On-Semi Ap	tina 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 D011 Y11	DVP data output port 11





Cameras Applications

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Camera Reliability Test

	Reliability Inspect	ion Item	Tanting Mathad	Aggentance Critoria	
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	
	Thermal Shock	High 60°C 0.5 Hours Low -20°C 0.5 Hours Cycling in 24 Hours	Temperature Chamber	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	
		50Hz X-Axis 2mm 30min	Vibration Table	Electrically Functional	
Physical	Vibration Test	50Hz Y-Axis 2mm 30min	Vibration Table	Electrically Functional	
Filysical		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	
	ESD Test	Contact Discharge 2 KV	ESD Testing Machine	Electrically Functional	
	ESD Test	Air Discharge 4 KV	ESD Testing Machine	Electrically Functional	
Electrical	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

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Inspection I Category		ı Item	Lanca Cara Made a l	Standard of Inspection	
		Item	Inspection Method		
		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	
	Holdor	Gap	The Naked Eye	Meet the Height Standard	
Appearance	Holder	Screw	The Naked Eye	Make Sure Screws Are Presented (If Any)	
		Damage	The Naked Eye	The Inside Crack Exposure is Not Allowed	
		Scratch	The Naked Eye	No Effect On Resolution Standard	
	Long	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	
		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	
Function	Image	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	
		Height	The Naked Eye	Follows Approval Data Sheet	
Dimer	neion	Width	The Naked Eye	Follows Approval Data Sheet	
Dilliel	131011	Length	The Naked Eye	Follows Approval Data Sheet	
		Overall	The Naked Eye	Follows Approval Data Sheet	

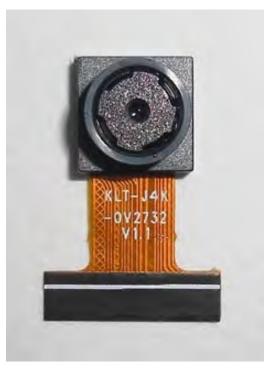




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KLT Package Solutions

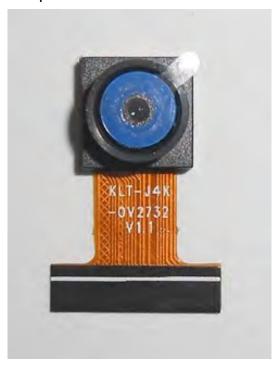
KLT Camera Module



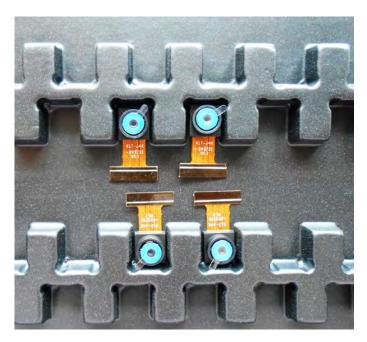
Tray with Grid and Space



Complete with Lens Protection Film



Place Cameras on the Tray







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Camera Modules Package Solution

Full Tray of Cameras



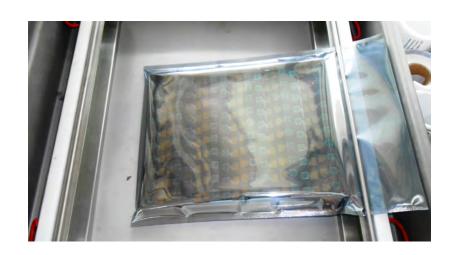
Put Tray into Anti-Static Bag



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





Place Foam Sheets and Trays into Box

Foam Sheets are Tightly Fitting Box









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Small Order Package Solution

Place Foam Sheets and Trays into Small Box







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





Carbon Box Ready for Shipment 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









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 or workmanship during the Warranty Period, 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











