



your BEST camera module partner

KLT-U7MF-OV7251 V1.0

0.3MP OmniVision OV7251 Global Shutter MIPI Interface Fixed Focus Camera Module





Front View

Back View

Specifications	
Camera Module No.	Www.Kail.apTech.com
Resolution	0.3MP
Image Sensor	OV7251 Global Shutter
Sensor Type	1/7.5"
Pixel Size	3.0 um x 3.0 um
EFL	1.84 mm
F.NO	2.55
Pixel	640 x 480
Wiew Angle il an Tech com	100.0°(DFQV) 84,0°(HFOV) 44,0°(VFQV)
Lens Dimensions	8.00 x 8.00 x 12.50 mm
Module Size	100.00 x 10.00 mm
Module Type	Fixed Focus
Interface	MIPI
Auto Focus VCM Driver IC	None
Lens Model	KLT-LENS-50202A1
Lens Type	650nm IR Cut
Operating Temperature	-30°C to +70°C
Mating Connector	AXT524124





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Top View

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Bottom View

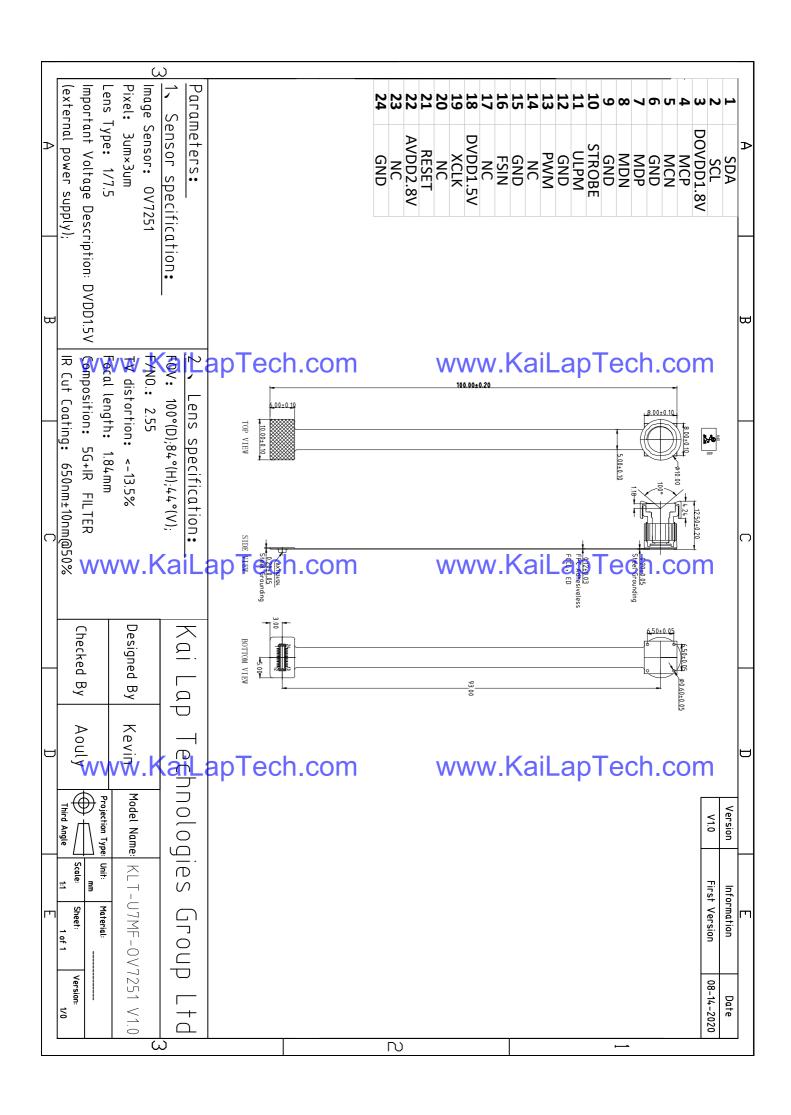


Side View

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Mating Connector

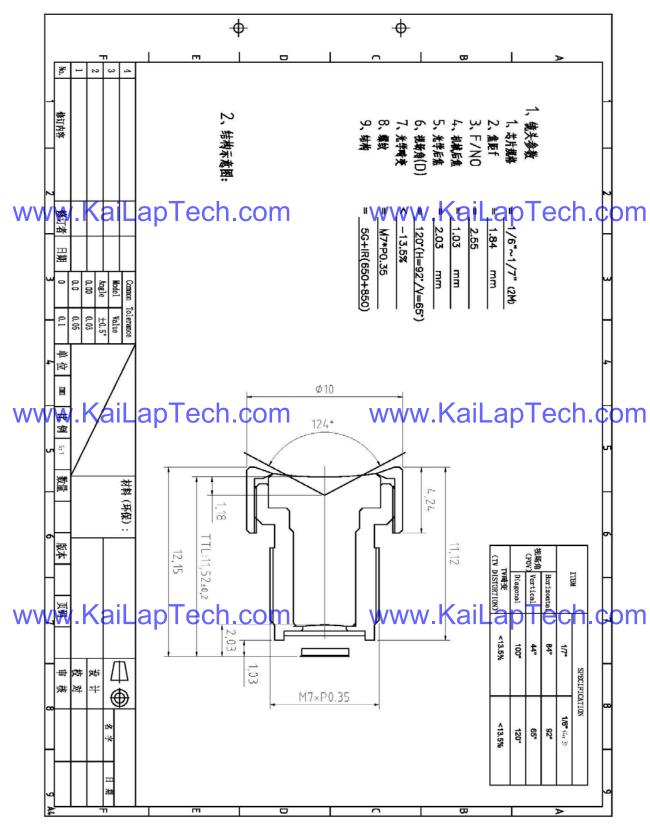






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Lens Model: KLT-LENS-50202A1



Panasonic

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

NARROW PITCH (0.4 mm) CONNECTORS F4S SERIES

ideas for life





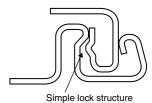
FEATURES

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.

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



Compliance with RoHS Directive

www.KaiLapTech.

Socket Pickup width: 0.8mm Clips (soldering terminal)* at the four corners Clips (soldering terminal) at the four corners

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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"

www.KaiLapTech. TOUTHET HAS SHONG.

2. Highly reliable

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.

Example of Board-to-FPC conne Reinforcing Before (with FPC) mating connectors F4S 1 After 1.0mm mating The simple lock mechanism ensures that the connector clicks into position when it is inserted for reliable single-action insertion on the PCB.

ORDERING INFORMATION

4: Base: Ni plating Surface: Au plating

AXT www.KaiLapTech.com 5: Narrow Pitch Connector F4S (0.4 mm pitch) Socket 6: Narrow Pitch Connector F4S (0.4 mm pitch) Header O Number of contacts (2 digits) Mated height <Socket> 1: For mated height 1.0 mm 2: For mated height 1.2 mm <Header> 1: For mated height 1.0 mm 2: For mated height 1.2 mm **Functions** <Socket, Header> 2: Without positioning bosses Surface treatment (Contact portion / Terminal portion) <Socket> 4: Base: Ni plating Surface: Au plating (for Ni barrier available) <Header>

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.

Clips for preventing the solder joints from being removed

PRODUCT TYPES TOUGH CONTRCT

Mated height	Number of contacts	Part number		Packing	
Maleu Height		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	AXT532124	AXT632124		
1.0mm	34	AXT534124	AXT634124		
1.0111111	36	AXT536124	AXT636124		
	38	AXT538124	AXT638124		
	40	AXT540124	AXT640124	3,000 pieces	6,000 pieces
\	V Kott on T	AXT542124	AXT642124	Kail anT	ach com
WWV	v.na4Lap i	CUAXT544124	AXT644 <mark>124 VV V</mark>	/.KaiLapT	
	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	17 11 -	
lotes: 1. Order unit: Fo Samples for n	r mass production: in 1-inner- nounting check: in 50-connect	box (1-reel) units O M or units. Please contact our sa	WWW	/.KaiLapT	ecn.com

Notes: 1. Order unit, For mass production: in 1 inner-box (Freel) 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.

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^{2.} The above part numbers are for connectors without positioning bosses, which are standard. When ordering connectors with positioning bosses, please contact our sales office.

^{3.} 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. 1,000M Ω (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 \times contacts (initial)		
Mechanical	Composite removal force	Min. $0.165N/contacts \times contacts$		
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.	
WWW Environmental characteristics	Thermal shock resistance C (header and socket mated)	5 dycles O Ω insulation resistance min. 100M Ω , contact resistance max. $90m\Omega$	Sequence 1-55 % C, 30 minutes 2. ~, Max. 5 minutes 3. 85 % C, 30 minutes 4. ~, Max. 5 minutes	
	Humidity resistance (header and socket mated)	120 hours, insulation resistance min. 100M Ω , contact resistance max. 90m Ω	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. $90m\Omega$	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	O ECN.COM VSurface treatment 3 CO ECN.COM		
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)		

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DIMENSIONS (Unit: mm) 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) Dimension table (mm) CAD Data Number of contacts Terminal coplanarity B±0.1 2 0.08 0.80 (Suction 0.40±0.05 10 4.5 1.6 3.4 (Contact and clips (0.62)0.15±0.03 (soldering terminal)* 4.9 3.8 12 2.0 14 5.3 2.4 4.2 16 2.8 4.6 5.7 18 6.1 3.2 20 6.5 3.6 5.4 22 6.9 4.0 5.8 24 7.3 4.4 6.2 (0.62) 26 77 4.8 6.6 C0.15 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 7.2 10.1 9.0 10.5 9.4 www.Kail 42 0.9 8.0 9.8 11.3 8.4 10.2 46 11.7 8.8 10.6 48 12.1 9.2 11.0

> 0.45 (0.80)

General tolerance: ±0.2

0.97

1.17

1.0mm

1.2mm

50

54

60

64

70

80

80

17.8

15.6

17.2

125

13.3

14.5

15.3

16.5

18.5

9.6

10.4

11.6

124

13.6

15.6

114

12.2

13.4

142

15.4

17.4

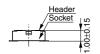
Note: Since the clip (soldering terminal)* has a single-piece construction, sections Y and Z are electrically connected.

0.30±0.03

C±0.

Header (Mated height: 1.0 mm and 1.2 mm) Dimension table (mm) **CAD Data** Number of contacts <u>≥ 0.08</u>/ a 10 3.8 1.6 3.2 (Post and clips (soldering terminal)*) 0.40±0.05 12 4.2 2.0 0.80 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 S 24 6.6 4.4 26 7.0 4.8 64 28 7.4 5.2 6.8 30 7.8 5.6 7.2 32 6.0 7.6 8.2 34 8.6 6.4 8.0 36 9.0 6.8 8.4 38 40 www.KaiLapTech.com www.Kai 9.4 8.8 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 0.94 0.15+0.03 48 11.4 9.2 10.8 General tolerance: ±0.2 50 9.6 11.8 11.2 54 12.6 10.4 12.0 60 13.8 11.6 13.2 64 14.6 12.4 14.0 0.83 1.0mm 70 15.8 13.6 15.2

Socket and Header are mated



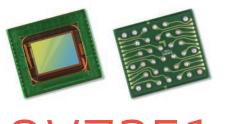


Mated height: 1.0 mm

Mated height: 1.2 mm

1.2mm

1.01



OV7251 VGA product brief





Low Power and Compact CameraChip™ Sensor with Industry's Smallest Global Shutter Pixel

available in a lead-free package

CameraChip™ sensor that uses a global shutter to reduce or eliminate unwanted image artifacts, which occur with traditional rolling shutter image sensors as a vesult of motion during image capture. The sensor's global shutter and excellent low-light sensitivity allow it to be used for any application that has a need for gesture detection, head and eye tracking, and depth and

The OV7251 is a small form factor, low power

motion detection.

The OV7251's compact form factor makes it a highly attractive camera solution for space-constrained applications such as head-mounted displays, smartphones, tablets, notebooks and Ultrabooks. Likewise, the sensor's low-power consumption makes it an ideal dedicated gesture sensor for similar application areas.

Leveraging the industry's smallest global shutter pixel, the black and white OV7251 is capable of capturing VGA (640x480) resolution video at 120 frames per

second (fps), QVGA (320x240) at 180 fps with binning, and QQVGA (160x120) at 360 fps with binning and skipping. The OV7251's high frame rates make it an ideal solution for low-latency machine vision applications.

The 1/7.5-inch OV7251 features multiple low-power modes, including light sensing mode and ultra-low power standby mode. In light sensing mode, the OV7251 behaves like an Ambient Light Sensor (ALS), which wakes the sensor up from "sleep mode" only when a change in light has been detected. Similarly, in ultra-low power mode, the sensor can reduce the resolution and frame rates to further reduce power consumption.

Find out more at www.ovt.com.





Applications

- Computer Vision
- 3D Systems
- Gesture Recognition
- Feature Tracking

Product Features

- improved shutter efficiency for machine vision applications
- integral 850 nm bandpass filter
- 3 µm x 3 µm pixel with OmniPixel*3-GS technology
- automatic black level calibration (ABLC)
- programmable controls for: frame rate mirror and flip

Middle William William

- support output formats: 8/10-bit RAW
- support for image sizes: 640 x 480
 - 320 x 240
- -160 x 120

- fast mode switching
- supports horizontal and vertical 2:1 and 4:1 monochrome subsampling
- supports 2x2 monochrome binning
- one-lane MIPI serial output interface
- one-lane LVDS serial output interface
- embedded 256 bits of one-time programmable (OTP) memory for part identification
- two on-chip phase lock loops (PLLs)
- built-in 1.5V regulator for core
- PWM
- built-in strobe control

0V7251



- **OV07251-A35A-1G** (b&w, lead-free, 35-pin CSP)
- 0V07251-G04A-1G (b&w, reconstructed wafer with good die)
- **OV07251-A35A-1**J (b&w, lead-free, 35-pin CSP, black mask)
- 0V07251-A35A-2B (b&w, improved PLS, lead-free, 35-pin CSP)
- 0V07251-G04A-2B (b&w, improved PLS, reconstructed wafer with good die)

Technical Specifications

- active array size: 640 x 480
 maximum image transfer rate:
 -640 x 480: 120 fps

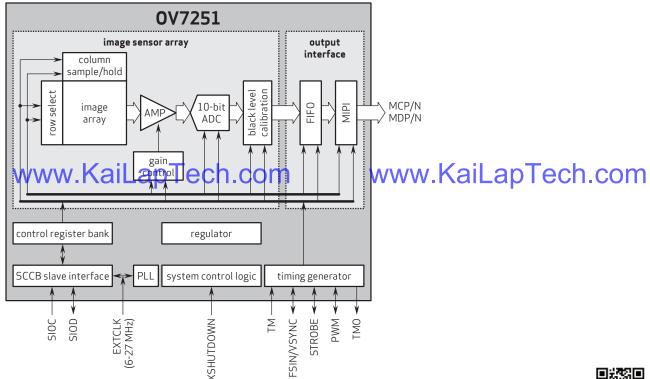
- power supply:- analog: 2.8V (nominal)- core: 1.5V (optional)- I/O: 1.8V (nominal)

- standby: 15 μA for AVDD, 40 μA for DOVDD without input clock,
- 700 µA for DOVDD with input clock - XSHUTDOWN: 5 μA for AVDD, $5 \mu A$ for DOVDD
- output formats: 10-bit B&W RAW

- - temperature stable image: 0°C to +50°C junction temperature
- output interface: 1-lane MIPI/LVDS serial output
- lens size: 1/7.5"
- power requirements:
 active: 119 mW (@ 120 fps, VGA output lens chief ray angle: 29° non-linear
 - scan mode: progressive
 - pixel size: 3 µm x 3 µm
 - \blacksquare image area: 1968 µm x 1488 µm

FWWWW Kailap Tech.com

www.KaiLapTech.com



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Camera Module Pinout Definition Reference Chart

	ina 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
MREAVXHX aiLap Lech.com	DVP HREF OUTPUTW. Kallap ech.com
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
APPAW.KaiLaptech.com	CEN chip enable active high on CM driver Q . CON
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 CCII.COIII	www.KaiLapTech.con
D0 DO0 Y0	DVP data output port 0
D1 D01 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 D07 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 Inspection Item			Tanting Mathad	A Coritorio	
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	
	Vibration Test	50Hz X-Axis 2mm 30min	Vibration Table	Electrically Functional	
Physical		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 Cable Tensile Strength Test Cable Tensile Coading 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	
Electrical		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			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
	11.1.1	Gap	The Naked Eye	Meet the Height Standard
Appearance	Holder	Screw	The Naked Eye	Make Sure Screws Are Presented (If Any)
WW	w.KaiL	ap Temp.con	↑ The Naked Fye //\	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
	w.KaiL	Bright Pixel	Black Board	Not Allowed In the Image Center
14040		Dark Pixel	White board	Not Allowed In the Image Center
VVVV		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
2		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

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





