

### KLT-U7MF-OV7251 V1.0 NIR

### 0.3MP OmniVision OV7251 Global Shutter MIPI Interface No IR Filter **Fixed Focus Camera Module**



Front View



**Back View** 

### **Specifications**

Camera Module No.	KLT-U7MF-OV7251 V1.0 NIR	
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	
View Angle	100.0°(DFOV) 84.0°(HFOV) 44.0°(VFOV)	
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	No IR Filter Lens	
Operating Temperature	-30°C to +70°C	
Mating Connector	AXT524124	

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### KLT-U7MF-OV7251 V1.0 NIR

### 0.3MP OmniVision OV7251 Global Shutter MIPI Interface No IR Filter **Fixed Focus Camera Module**



**Top View** 



Side View







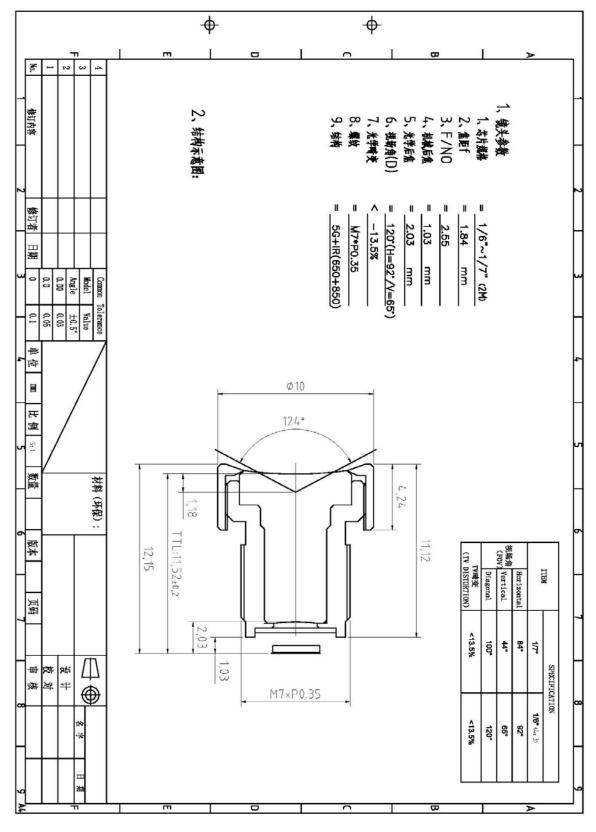
Mating Connector

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	A	B	C		D		
					Version	Information	Date
	3 DOVDD1 8V				V 1.0	First Version	7-5-2021
				6.50±0.05 Ø0.60±0.05			
			010.00				
				6.50±			
			1,18 Steel Grounding	[ 			
	8 MDN		5.00±0.10				
	6						
	11 ULPM		FPC Adhesiveless				
			FCLL; ED				
	•						
	DV		0.00±	93.00			
			10.				
	20 NC						
	21 RESET						
	AVL						)
							N
	24 GND						
			10.05+0.10 10.05+0.10 Steel Grounding	3,000			
			TOP VIEW SIDE VIEW	BOTTOM VIEW			
	Parameters.		2 Lens specification:	) ]			, 一 十 〕
			∩V• 100°(∩).8/			שובא חו חח <i>ה</i>	
ω							ω
	image sensor: UV/251					22   VI T 117ME 01/79E	
	Pixel: 3um×3um		TV distortion: <-13.5%	Designed By Ke	Kevin Model Nar	Model Name: KLI-U/MF-UV/251 V1.U NIK	T VI.O NIK
	Lens Type: 1/7.5		Focal length: 1.84mm		Projection Type:	/pe: Unit: Material:	
	oltage	Description: DVDD1.5V	Composition: 5G				
	JOWEL SU			U y		1:1 Sheet:	Version: 1/0
		B	$\cap$				
		ť	(		t	Γ	



#### Lens Model: KLT-LENS-50202A1



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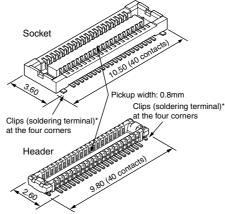




### NARROW-PITCH, THIN AND SLIM CONNECTOR FOR BOARD-TO-FPC CONNECTION

### 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

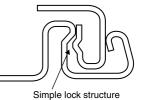
#### 2. Highly reliable **TDLIGH CONTRET** has strong resistance to adverse environments.

(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.

# NARROW PITCH (0.4 mm) CONNECTORS F4S 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"

Example	of Board-to-FPC connections
Before mating	Reinforcing plate Narrow-pitch f (with FPC) connectors F4S
After mating	+ 1.0mm
CO	e simple lock mechanism ensures that the nnector clicks into position when it is inserted reliable single-action insertion on the PCB.

### ORDERING INFORMATION

5: Narrow Pitch Connector F4S (0.4 mm pitch) Socket 6: Narrow Pitch Connector F4S (0.4 mm pitch) Header	AXT 4
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</header></socket>	
Functions <socket, header=""> 2: Without positioning bosses</socket,>	
Surface treatment (Contact portion / Terminal portion) <socket> 4: Base: Ni plating Surface: Au plating (for Ni barrier av <header> 4: Base: Ni plating Surface: Au plating</header></socket>	ailable)

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 CONTRET

Matad baight	Number of contacts	Part r	number	Pac	king
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	AXT532124	AXT632124		
1.0mm	34	AXT534124	AXT634124		
1.000	36	AXT536124	AXT636124		
	38	AXT538124	AXT638124		
	40	AXT540124	AXT640124	3,000 pieces	6,000 pieces
	42	AXT542124	AXT642124	-, p	-, p90
	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)	
	Rated voltage	60V AC/DC	
Electrical characteristics	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.
characteristics	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)	
Vechanical	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 $\Omega$ , contact resistance max. 90m $\Omega$	Sequence        155. <sup>9</sup> / <sub>3</sub> °C, 30 minutes        2. ~, Max. 5 minutes        3. 85* <sup>3</sup> / <sub>3</sub> °C, 30 minutes        4. ~, Max. 5 minutes
	Humidity resistance (header and socket mated)	120 hours, insulation resistance min. 100M $\Omega$ , 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. 100MΩ, contact resistance max. 90mΩ	Bath temperature 35±2°C, saltwater concentration 5±1%
	H <sub>2</sub> S resistance (header and socket mated)	48 hours, contact resistance max. $90m\Omega$	Bath temperature $40\pm2^{\circ}C$ , gas concentration $3\pm1$ 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)

## AXT5, 6

#### **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) table (mm)

1.2mm

1.17

0.83

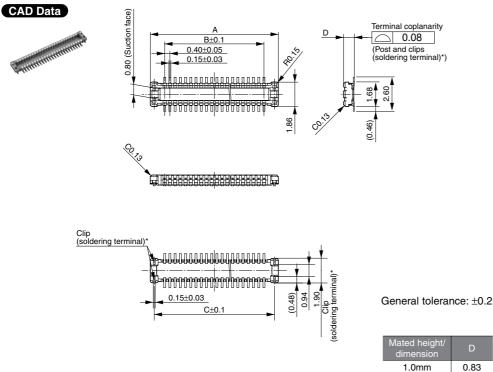
1.01

1.2mm

······	Dimension table (m
CAD Data	8 Number of contacts/ dimension
	28
	30
	32
L <del></del>	34
	36
	38
Y note	40
	42
	44
	46
	e: ±0.2 48
	50
	54
A CTU. I Mated height/	D 60
dimension	64
1.0mm 0	0.97 70

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)



#### Dimension table (mm)

80

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

4.5

4.9

5.3

5.7

6.1

6.5

6.9

7.3

77

8.1

8.5

8.9

9.3

9.7

10.1

10.5

10.9

11.3

11.7

12.1

12.5

13.3

14.5

15.3

16.5

18.5

1.6

2.0

2.4

2.8

3.2

3.6

4.0

4.4

4.8

5.2

5.6

6.0

6.4

6.8

7.2

7.6

8.0

8.4

8.8

9.2

9.6

10.4

11.6

12.4

13.6

15.6

3.4

3.8

4.2

4.6

5.0

5.4

5.8

6.2

6.6

7.0

7.4

7.8

8.2

8.6

9.0

9.4

9.8

10.2

10.6

11.0

11.4

12.2

13.4

14.2

15.4

17.4

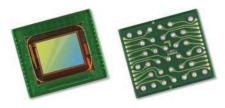
#### · Socket and Header are mated





Mated height: 1.0 mm

Mated height: 1.2 mm



# OV7251 VGA product brief





# Low Power and Compact CameraChip<sup>™</sup> Sensor with Industry's Smallest Global Shutter Pixel

available in a lead-free package

The OV7251 is a small form factor, low power CameraChip<sup>™</sup> sensor that uses a global shutter to reduce or eliminate unwanted image artifacts, which occur with traditional rolling shutter image sensors as a result 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 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 cropping
   windowing
- support output formats: 8/10-bit RAW
- support for image sizes: - 640 x 480 - 320 x 240 -160 x 120

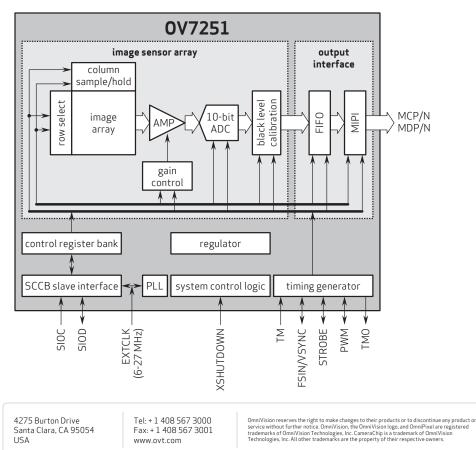
- fast mode switching
- supports horizontal and vertical 2:1 and 4:1 monochrome subsampling
- supports 2x2 monochrome binning
- one-lane MIPI serial output interface
- one-lane LVDS serial output interface
- embedded 256 bits of one-time programmable (OTP) memory for part identification
- two on-chip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

- 0V07251-A35A-1G (b&w, lead-free, 35-pin CSP)
- 0V07251-G04A-1G (b&w, reconstructed wafer with good die)
- OV07251-A35A-1J (b&w, lead-free, 35-pin CSP, black mask)
- **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)
- power requirements: active: 119 mW (@ 120 fps, VGA output lens chief ray angle: 29° non-linear 
   • 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 µA for DOVDD
- output formats: 10-bit B&W RAW

- OV07251-A35A-2B (b&w, improved PLS, lead-free, 35-pin CSP)
- 0V07251-G04A-2B (b&w, improved PLS, reconstructed wafer with good die)
- temperature range: - operating: -30°C to +70°C junction temperature stable image: 0°C to +50°C junction
  - temperature
- output interface: 1-lane MIPI/LVDS serial output
- lens size: 1/7.5"
- - pixel size: 3 µm x 3 µm
  - image area: 1968 μm x 1488 μm

### Functional Block Diagram





0V72<u>51</u>



### **Camera Module Pinout Definition Reference Chart**

OmniVision Sony Samsung On-Semi Aptina 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 DM01N	MIPI 1st data lane negative output			
MDP0 DP0 MD0P DATA P DM01P	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 D00 Y0	DVP data output port 0			
D1 D01 Y1	DVP data output port 0			
D2 D02 Y2	DVP data output port 1			
D3 D03 Y3	DVP data output port 2 DVP data output port 3			
D3 D03 13 D4 D04 Y4				
D5 D05 Y5	DVP data output port 4 DVP data output port 5			
D6 D06 Y6	DVP data output port 5			
D7 D07 Y7				
	DVP data output port 7			
D8 D08 Y8	DVP data output port 8			
D9 D09 Y9	DVP data output port 9			
D10 D010 Y10	DVP data output port 10			
D11 D011 Y11	DVP data output port 11			

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### **Cameras Applications**

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### **Camera Reliability Test**

Reliability Inspection Item		Tooting Mathed	Accontance Criteria	
Cat	Category		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
	Vibration Test	50Hz X-Axis 2mm 30min	Vibration Table	Electrically Functional
Physical		50Hz Y-Axis 2mm 30min	Vibration Table	Electrically Functional
Fliysical		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
Electrical		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
	USB Connector	On/Off 250 Times	Plug and Unplug	Electrically Functional



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### **Camera Inspection Standard**

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	Inspectior	spection Item Inspection Method		Standard of Inspection	
Cateç	gory	ltem	Пересноп менной		
		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		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	
	Image	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	
		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	
Dimen	voion	Width	The Naked Eye	Follows Approval Data Sheet	
Dimer	151011	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

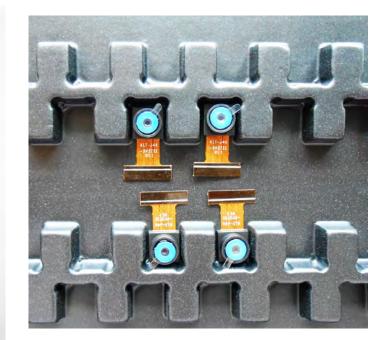


Tray with Grid and Space





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

Foam Sheets are Nicely Fitting the 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

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

Label Connectors in the Wheel



**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, <u>www.KaiLapTech.com</u>. 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.



# KIT

# CMOS CAMERA MODULES

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### **KLT Strength**

**Powerful Factory** 



### **Professional Service**



### **Promised Delivery**



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