



your BEST camera module partner

KLT-J5MF-IMX335 V1.0 5MP Sony IMX335 MIPI Interface M12 Fixed Focus Camera Module







Back View

Specifications

Camera Module No.Tech.com	KLT-J5MF-IMX335-V1-D
Resolution	5MP
Image Sensor	IMX335
Sensor Type	1/2.8"
Pixel Size	2.0 um x 2.0 um
EFL	3.07 mm
F.NO	1.80
Pixel	2592 x 1944
View Angle	152.3°(DFOV) 124.2°(HFOV) 64.2°(VFOV)
Lens Dimensions Tech com	13:00\x/13:00 x 18:07 mmch com
Module Size	40.00 x 21.90 mm
Module Type	Fixed Focus
Interface	MIPI
Auto Focus VCM Driver IC	None
Lens Model	KLT-LENS-YM6020P
Lens Type	650nm IR Cut
Operating Temperature	-20°C to +85°C
Mating Connector	DF30FC-30DS-0.4V





your BEST camera module partner

KLT-J5MF-IMX335 V1.0 5MP Sony IMX335 MIPI Interface M12 Fixed Focus Camera Module



Top View

www.KaiLapTech.com



Bottom View

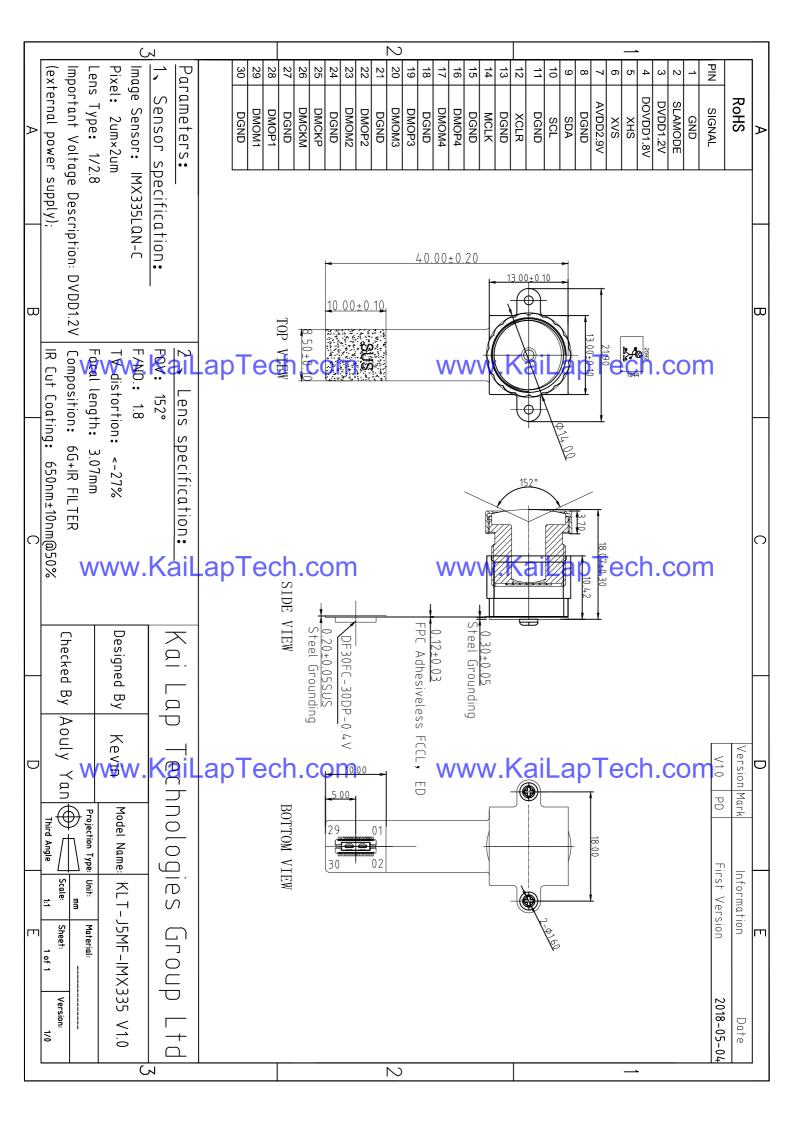


Side View

www.KaiLapTech.com



Mating Connector

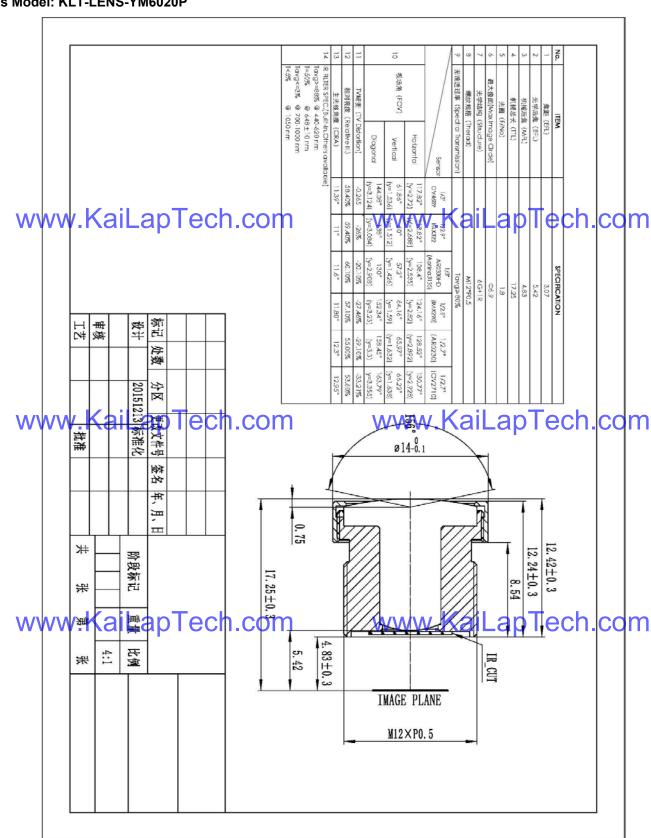






your BEST camera module partner

Lens Model: KLT-LENS-YM6020P



0.4 mm Pitch, 0.9 mm Height, Board-to-Board / Board-to-FPC Connectors

DF30 Series





Overview

Continuous miniaturization and increased component density on PCB created demand for extremely low profile connectors. This series is addition of a new extremely low profile connectors to Hirose's wide range of high reliability board-to-board/board-to-FPC connection solutions.

Features

1. Contact reliability plech.com

Concentration of the contact's normal forces at the single point assures good contact wipe and electrical reliability, while confirming the fully mated condition with a definite tactile click.

2. Self alignment

Recognizing the difficulties of mating extremely small connectors in limited spaces the connectors will self align in horizontal axis within 0.3 mm.

3. Automatic board placement

Packaged on tape-and-reel the plug and headers have sufficiently large flat areas to allow pick-up with vacuum nozzles of automatic placement equipment.

4. Variety of contact positions and styles

Available in standard contact positions of: 20, 22, 24, 30, 34, 40, 50, 60, 70 and 80 with and without metal fittings. Addition of metal fittings does not affect external dimensionsof the connectors.

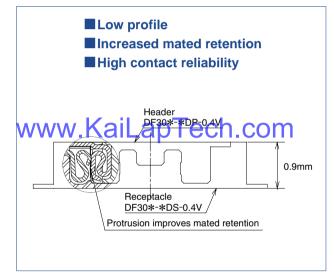
Smaller contact positions are also available.

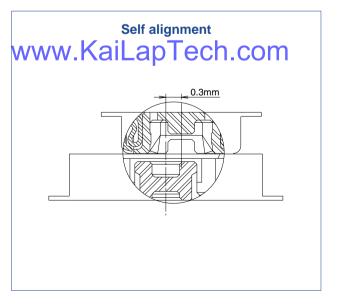
5. Support for continuity test connector

Connectors which have increased insertion and removal durability are available for continuity tests. Contact your Hirose sales representative for details.

Applications

Cellular phones, PDA's, mobile computers, digital cameras, digital video cameras, and other devices demanding high reliability connections in extremely limited spaces.





■Product Specifications

Detien	Rated current 0.3A	Operating temperature range	: -35°C to 85°C (Note 1)	Storage temperature range	e -10°C to 60°C (Note 2)
Rating	Rated voltage 30V AC	Operating humidity range	: Relative humidity 20% to 80%	Storage humidity range	Relative humidity 40% to 70% (Note 2)

Item	Specification	Conditions
1. Insulation resistance	50 MΩ min.	100V DC
2. Withstanding voltage	No flashover or insulation breakdown.	100V AC / one minute
3. Contact resistance	100 mΩ max.	100 mA
4. Vibration	No electrical discontinuity of 1 μ s or more	Frequency: 10 to 55 Hz, single amplitude of 0.75mm, 2 hours, 3 axis
5. Humidity	Contact resistance: 100 m Ω max. Insulation resistance: 25 M Ω min.	96 hours at temperature of 40 °C±2°C and RH of 90% to 95%
6. Temperature cycle	Contact resistance: $100 \text{ m}\Omega$ max. Insulation resistance: $50 \text{ M}\Omega$ min.	Temperature: -55° C $\rightarrow +5^{\circ}$ C to $+35^{\circ}$ C $\rightarrow +85^{\circ}$ C $\rightarrow +5^{\circ}$ C to $+35^{\circ}$ C Duration: $30 \rightarrow 10 \rightarrow 30 \rightarrow 10$ (Minutes) 5 cycles
7. Durability (insertions/withdrawals)	Contact resistance: 100 mp max.	86 bydes (Connector for Conductivity ests 500 dycles)
8. Resistance to soldering heat	No deformation of components affecting performance.	Reflow: At the recommended temperature profile Manual soldering: 300°C for 3 seconds

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating temperature range and humidity range covers non-conducting condition of installed connectors in storage, shipment or during transportation.

■Materials and Finishes

Connectors	Component	Material	Finish	Remarks
WReceptacles 3	an Insulation CC	M LCP	VVVVColor : Black an	echul94vm
and	Contacts	Phosphor bronze	Gold plated	<u> </u>
Headers	Metal fittings	Phosphor bronze	Tin-cupper plated	

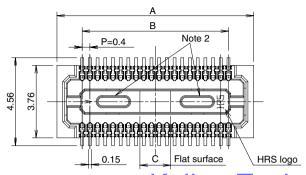
■Ordering information

Receptacles and Headers

6 Contact pitch: 0.4 mm
6 Termination section
V: Straight SMT
Packaging
(81): Embossed tape packaging (5,000 pieces per reel)
(82): Embossed tape packaging (1,000 pieces per reel)

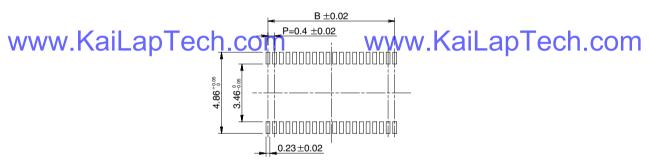
■Receptacles (without metal fittings)





www.KaiLapTech.com

www.KaiLapTech.com



Recommended solder paste thickness: 120 μm

www.KaiLapTech.com

[Specification number] -**, (**)

(81): Embossed tape packaging (5 000 pieces per reel)

* Tolerances non- accumulative

Unit: mm

Toleranoes non-accumulative.					O11111. 111111
Part Number	CL No.	Number of contacts	Α	В	С
DF30FC-20DS-0.4V(**)	CL684-1109-8-**	20	6.22	3.6	1.2
DF30FC-22DS-0.4V(**)	CL684-1110-7-**	22	6.62	4.0	1.2
DF30FC-24DS-0.4V(**)	CL684-1111-0-**	24	7.02	4.4	1.2
DF30FC-30DS-0.4V(**)	CL684-1112-2-**	30	8.22	5.6	1.2
DF30FC-34DS-0.4V(**)	CL684-1113-5-**	34	9.02	6.4	1.36
DF30FC-40DS-0.4V(**)	CL684-1078-6-**	40	10.22	7.6	1.6
DF30FC-50DS-0.4V(**)	CL684-1114-8-**	50	12.22	9.6	2.0
DF30FC-60DS-0.4V(**)	CL684-1082-3-**	60	14.22	11.6	2.4
DF30FC-70DS-0.4V(**)	CL684-1115-0-**	70	16.22	13.6	2.8
DF30FC-80DS-0.4V(**)	CL684-1116-3-**	80	18.22	15.6	3.2

Note 1: Order by number of reels.

Note 2: Receptacles with 24 or fewer contacts positions will not have recessed areas.

SONY

[Product Information]

Ver.1.0

IMX335LLN

Diagonal 6.52 mm (Type 1 / 2.8) CMOS Solid-state Image Sensor with Square Pixel for Monochrome Cameras

Description

The IMX335LLN is a diagonal 6.52 mm (Type 1 / 2.8) CMOS active pixel type solid-state image sensor with a square pixel array and 5.14 M effective pixels. This chip operates with analog 2.9 V, digital 1.2 V, and interface 1.8 V triple power supply, and has low power consumption. High sensitivity, low dark current and no smear are achieved. This chip features an electronic shutter with variable charge-integration time.

WV(Applications: Surveillance came as, FAcameras, Industrial cameras)W. KaiLapTech.com

Features

- ◆ CMOS active pixel type dots
- ◆ Built-in timing adjustment circuit, H/V driver and serial communication circuit
- ◆ Input frequency: 6 to 27 MHz / 37.125 MHz / 74.25 MHz
- ♦ Number of recommended recording pixels: 2592 (H) x 1944 (V) approx. 5.04 M pixels
- ◆ Readout mode

WWWIndow Gropping mode Tech.com

www.KaiLapTech.com

Vertical / Horizontal direction-normal / inverted readout mode

◆ Readout rate

Maximum frame rate in All-pixel scan mode $2592(H) \times 1944(V)$ A/D 10-bit : 60 frame/s

◆ High dynamic range (HDR) function

Multiple exposure HDR

Digital overlap HDR

- ◆ Variable-speed shutter function (resolution 1H units)
- ◆ 10-bit / 12-bit A/D converter

◆ CDS / PGA function

WWW KaiLapTech.com

30.3 dB to 72 dB: Analog Gain 30 dB + Digital Gain 0.3 to 42 dB (step pitch 0.3 dB)

- ◆ Supports I/O
 - CSI-2 serial data output (2 Lane / 4 Lane, RAW10 / RAW12 output)
- ◆ Recommended exit pupil distance: -100 mm to -∞

STARVIS

* STARVIS is a trademark of Sony Corporation. The STARVIS is back-illuminated pixel technology used in CMOS image sensors for surveillance camera applications. It features a sensitivity of 2000 mV or more per 1 µm² (color product, when imaging with a 706 cd/m² light source, F5.6 in 1 s accumulation equivalent), and realizes high picture quality in the visible-light and near infrared light regions.

Sony reserves the right to change products and specifications without prior notice. Sony logo is a registered trademark of Sony Corporation.

Device Structure

◆ CMOS image sensor

◆ Image size

◆ Total number of pixels

◆ Number of effective pixels

◆ Number of active pixels

Number of recommended recording pixels

◆ Unit cell size

◆ Optical black

♦ Dummy

www.ksaiLapTech.com

Type 1/2.8

2704 (H) x 2104 (V) approx. 5.69 M pixels

2616 (H) x 1964 (V) approx. 5.14 M pixels

2616 (H) x 1960 (V) approx. 5.13 M pixels

2592 (H) x 1944 (V) approx. 5.04 M pixels

 $2.0 \mu m (H) \times 2.0 \mu m (V)$

Horizontal (H) direction: Front 0 pixel, rear 0 pixel

Vertical (V) direction: Front 13 pixels, rear 0 pixel

Horizontal (H) direction: Front 0 pixel, rear 0 pixel

Vertical (V) direction: Front 0 pixel, rear 0 pixel

88 pM&WW.KaiLap I ech.com

Image Sensor Characteristics

(Tj = 60 °C)

ltem		Value	Remarks
Sensitivity (F8)	Тур.	1961 Digit	1/30 s accumulation 12 bit converted value
saruhari da AsigKala i Lap	Tech.com	звээффуу.К	aiLapitCoch vaom

Basic Drive Mode

Drive mode	Recommended number of recording pixels	Maximum frame rate [frame/s]	Output interface	ADC [bit]
All pixel	2592 (H) × 1944 (V) approx. 5.04 M pixels	60	CSI-2	10

www.KaiLapTech.com

www.KaiLapTech.com

SONY

[Product Information]

Ver.1.1

IMX335LQN

Diagonal 6.52 mm (Type 1/2.8) CMOS Solid-state Image Sensor with Square Pixel for Color Cameras

Description

The IMX335LQN is a diagonal 6.52 mm (Type 1/2.8) CMOS active pixel type solid-state image sensor with a square pixel array and 5.14 M effective pixels. This chip operates with analog 2.9 V, digital 1.2 V, and interface 1.8 V triple power supply, 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 mosaic filters. This chip features an electronic shutter with variable

Wychatge-Integration time. Tech.com WWV (Applications: Surveillance cameras, FA cameras, Industrial cameras) (aiLap i ecn.com

Features

- ◆ CMOS active pixel type dots
- ◆ Built-in timing adjustment circuit, H/V driver and serial communication circuit
- ◆ Input frequency: 6 to 27 MHz / 37.125 MHz / 74.25 MHz
- ◆ Number of recommended recording pixels: 2592 (H) x 1944 (V) approx. 5.04 M pixels
- Readout mode

www.meiki.seailmeepTech.com Horizontal/Vertical 2/2-line binning mode

www.KaiLapTech.com

Window cropping mode

Vertical / Horizontal direction-normal / inverted readout mode

◆ Readout rate

Maximum frame rate in All-pixel scan mode 2592 (H) × 1944 (V) A/D 10-bit : 60 frame/s

High dynamic range (HDR) function

Multiple exposure HDR

Digital overlap HDR

◆ Variable-speed shutter function (resolution 1H units)

10-bit/12-bil AB CONVETE Ch. COM

www.KaiLapTech.com

CDS / PGA function

0 dB to 30 dB: Analog Gain 30 dB (step pitch 0.3 dB)

30.3 dB to 72 dB: Analog Gain 30 dB + Digital Gain 0.3 to 42 dB (step pitch 0.3 dB)

- ◆ Supports I/O
 - CSI-2 serial data output (2 Lane / 4 Lane, RAW10 / RAW12 output)
- ◆ Recommended exit pupil distance: -30 mm to -∞

STARVIS is a trademark of Sony Corporation. The STARVIS is back-illuminated pixel technology used in CMOS image sensors for surveillance camera applications. It features a sensitivity of 2000 mV or more per 1 µm² (color product, when imaging with a 706 cd/m² light source, F5.6 in 1 s accumulation equivalent), and realizes high picture quality in the visible-light and near infrared light regions.

Sony reserves the right to change products and specifications without prior notice. Sony logo is a registered trademark of Sony Corporation.

Device Structure

◆ CMOS image sensor

◆ Image size

Total number of pixels

◆ Number of effective pixels

◆ Number of active pixels

Number of recommended recording pixels

◆ Unit cell size

◆ Optical black

♦ Dummy

www.ksaiLapTech.com

Type 1/2.8

2704 (H) x 2104 (V) approx. 5.69 M pixels

2616 (H) x 1964 (V) approx. 5.14 M pixels

2616 (H) x 1960 (V) approx. 5.11 M pixels

2592 (H) x 1944 (V) approx. 5.04 M pixels

 $2.0 \mu m (H) \times 2.0 \mu m (V)$

Horizontal (H) direction: Front 0 pixel, rear 0 pixel

Vertical (V) direction: Front 13 pixels, rear 0 pixel

Horizontal (H) direction: Front 0 pixel, rear 0 pixel

Vertical (V) direction: Front 0 pixel, rear 0 pixel

88 piles No Kailap I ech.com

Image Sensor Characteristics

(Tj = 60 °C)

ltem		Value	Remarks
Sensitivity (F5.6)	Тур.	2200 Digit	1/30 s accumulation 12 bit converted value
saruhari an kighala i Lap	Tech.com	звээффуу.К	aiLapitTeesb vaom

Basic Drive Mode

Drive mode	Recommended number of recording pixels	Maximum frame rate [frame/s]	Output interface	ADC [bit]
All pixel	2592 (H) × 1944 (V) approx. 5.04 M pixels	60	CSI-2	10
Wertical 2/2 line binning	approx. 1.26 M pixels	₆₀ WWW.	KailapTe	ch.com





your BEST camera module partner

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.KaiLap Lech.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

your BEST camera module partner







your BEST camera module partner

Camera Reliability Test

Reliability Inspection Item		Tanting Mathad	Acceptance Critoria	
Cat	egory	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
	Day Tark	Cycling in 24 Hours Without Package 60cm	10 Times on Wood Floor	Electrically Functional
	Drop Test (Free Falling)	With Package 60cm	10 Times on Wood Floor	Electrically Functional
		50Hz X-Axis 2mm 30min	Vibration Table	Electrically Functional
	Vibration Test	50Hz Y-Axis 2mm 30min	Vibration Table	Electrically Functional
Physical		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
	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
www.	USB Connector	On/Off 250 Times	W Plug and Unplugap	Electrically Functional













Camera Inspection Standard

your BEST camera module partner

Inspection Item				0, 1, 1, 1,
Category		Item	Inspection Method	Standard of Inspection
Appearance	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)
	Holder	Scratches	The Naked Eye	The Inside Crack Exposure is Not Allowed
		Gap	The Naked Eye	Meet the Height Standard
		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
	Lens	Scratch	The Naked Eye	No Effect On Resolution Standard
		Contamination	The Naked Eye	No Effect On Resolution Standard
		Oil Film	The Naked Eye	No Effect On Resolution Standard
		Cover Tape	The Naked Eye	No Issue On Appearance.
WW	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
		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
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





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



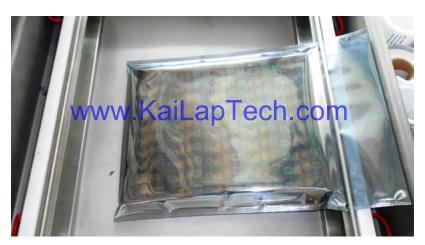
Put Tray into Anti-Static Bag



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





