your BEST camera module partner

KLT-U3MF-IMX258 V1.0

13MP Sony IMX258 MIPI Interface M12 Fixed Focus Camera Module



Front View

www.KaiLapTech.com

Back View

Specifications	
Camera Module No.	KLT-U3MF-IMX258 V1.0
Resolution	13MP
Image Sensor	IMX258
Sensor Type	1/3.06"
Pixel Size	1.12 um x 1.12 um
EFL	2.5 mm
F.NO	2.40
Pixel	4224 x 3136
View Angle iLap Tech.com Lens Dimensions	139.0°(DEOV), 108.0°(HEOV), 77.0°(VEOV) 13.60 x 13.60 x 15.32 mm
Module Size	40.00 x 13.60 mm
Module Type	Fixed Focus
Interface	MIPI
Auto Focus VCM Driver IC	None
Lens Model	KLT-LENS-MJ7003B
Lens Type	650nm IR Cut
Operating Temperature	-20°C to +70°C
Mating Connector	FH12-24S-0.5SH

www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



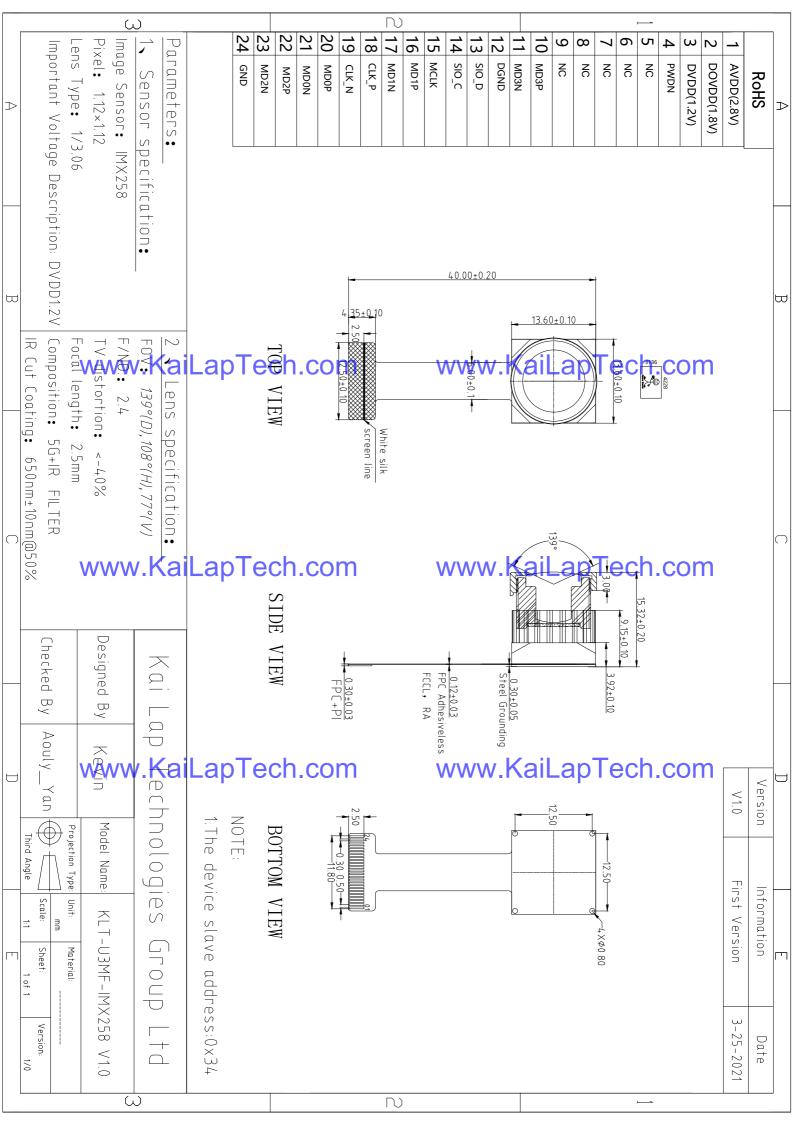
your BEST camera module partner

KLT-U3MF-IMX258 V1.0

13MP Sony IMX258 MIPI Interface M12 Fixed Focus Camera Module

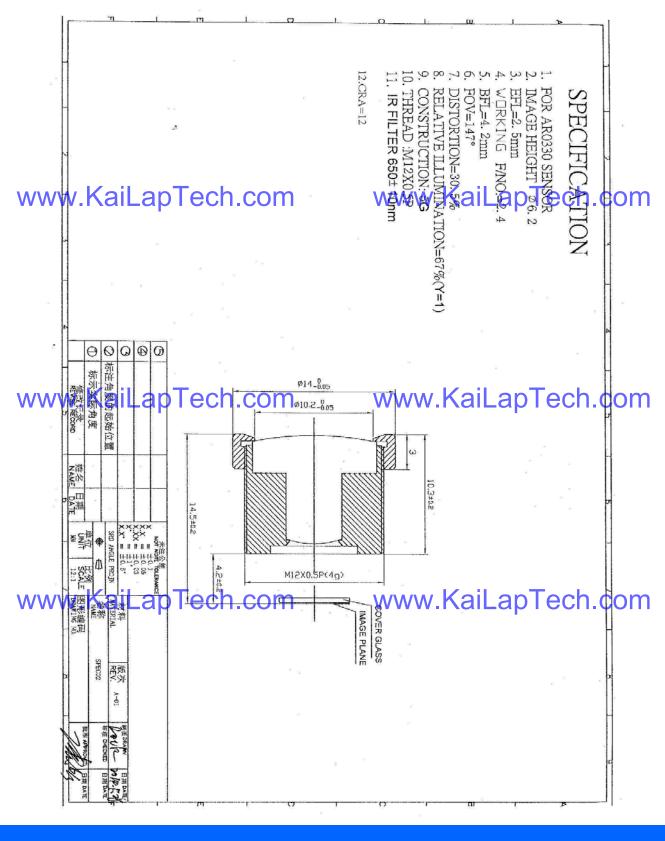


www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



your BEST camera module partner

Lens Model: KLT-LENS-MJ7003B

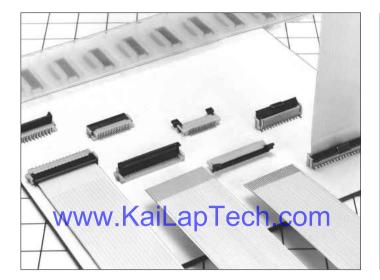


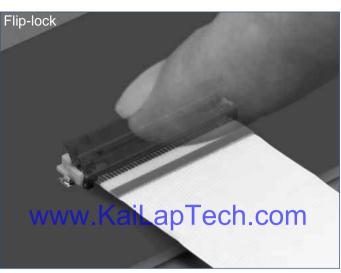
www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

0.5mm and 1mm Pitch Connectors For FPC/FFC

FH12 Series





Features

1. Ease of Use and Space Savings

Only one finger or 6.9N (Newtons) of force is required to lock Hirose's rotational actuator (flip-lock) as compared to using 2 fingers and 39.2N to close a FFC/FPC connector from our competition.

The Flip-Lock design also allows customers to place 2 or more connectors side by side as there is no need to waste additional board space for a side latch.

2. Strengthened Flip-lock Actuator

The standard Flip-Lock requires only 2.0mm height above the board. A strengthened lock lever is available which only requires an additional 0.4mm.

3. Supports Thin FPC (0.18mm)

Hirose does not require double-sided FPC to have any additional strengthening plate or stiffener and can therefore support a thickness of as little as 0.18mm +/- 0.05.

4. Hirose Ensures Reliability

Hirose's patented half tuning fork contacts maintain the required normal force without relying on the connector housing. With our competitor's conventional products the housing walls support the contact force, which does not provide for long-term reliability.

5. Prevention of Solder Bridge

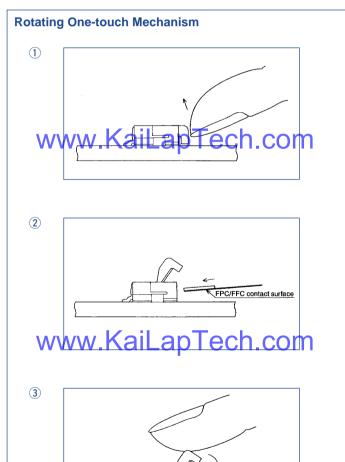
Excess solder cavity absorbs excessive solder and avoids solder bridging.

6. Three different assembly types

FH12 is offered in Top & Bottom Contact and Vertical Mount and offered in both a 0.5mm contact pitch as well as a 1.0mm contact pitch (bottom contact only).

Applications

Notebook computers, printers, PDAs, digital cameras and other compact devices for interconnecting the main circuit board with the LCD, HDD or other device.



6 **HS**

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website Reference of switchingse connector percharge on the second status of the Hirose website Reference of the second status of the second status of the Hirose website Reference of the second status of the second status of the Hirose website Reference of the second status of the second status of the Hirose website Reference of the second status of the second status of the Hirose website Reference of the second status of the second status of the Hirose website Reference of the second status of the second statu

Product Specifications

	Current rating: 0.5A DC(Note 1)	Operating Temperature Range:-40 t	o +70°C (Note 2)	Storage Temperature Range:-10 to +50°C (Note 3)	
Rating	Voltage rating: 50V AC	Operating Humidity Range:Relative hu	midity, 90% max.	Storage Humidity Range:Relative humidity, 90% max.	
			(Not dewed)	(Not dewed)	
Applicable FPC	t=0.3±0.0	05 Gold plated	t=	0.18 ± 0.05 for FH12F-*S-0.5SH	
Item	Spe	ecification		Conditions	
1. Insulation resistance	500M ohms minimum		100V DC		
2. Withstanding voltage	No flashover or insulation	ı breakdown.	150V AC/1	minute	
3. Contact resistance	50m ohms maximum		1mA		
4. Durability (Insertion/withdrawal)	Contact resistance: 50m No damage, cracks, or p		20 cycles		
5. Vibration	No electrical discontinuit Contact resistance: 50m No damage, cracks, or p	ohms maximum.	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions.		
6. Shock	No electrical discontinuit Contact resistance: 50m No damage, cracks, or p	ohms maximum.		n of 490 m/s ² , 11 ms duration, ave waveform, 3 cycles in each of the 3 axis.	
7. Humidity(Steady state)	Contact resistance: 50m Insulation resistance: 50l No damage, cracks, or p	V ohms minimum.	96 hours at	40°C and humidity of 90% to 95%	
8. Temperature Cycle	Contact resistance: 50m Insulation resistance: 50l No damage, cracks, or p	M ohms minimum.		e: -40° $C \rightarrow 15$ to 35° $C \rightarrow 85^{\circ}$ $C \rightarrow 15$ to 35° , 5 max. $\rightarrow 30 \rightarrow 5$ max.(minutes)	
9.Resistance to Soldering heat	No deformation of components affecting pe	rformance.		he recommended temperature profile dering: $350\pm5^\circ$ for 3 seconds	

Note 1: When passing the current through all of the contacts, use 70% of the current rating.

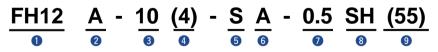
Note 2: Includes temperature rise caused by current flow, Mote 3: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and

Humidity range covers nonconducting condition of installed connectors in storage, shipment or during transportation.

Material

Part	Material	Material Finish		
Insulator	Polyamide, LCP(60 pos.)	olyamide, LCP(60 pos.) Color : Beige		
Actuator	PPS	Color : Dark brown	UL94V-0	
Contact	Phosphor bronze	Gold plated		
Metal Fittings	Brass	Tin plated		

■ordering Infoil apTech.com www.KaiLapTech.com



Series Name : FH12	5 Contact alignment: Single		
Blank : standard type	6 Eccentric direction:		
A : Top contact type	Blank : standard type		
S : Type with strengthed flip-lock actuator	A : Eccentric type		
F : Type with 0.18mm FPC End Thickness	Contacts Pitch : 0.5mm, 1mm		
Standard type : Number of contacts	8 Contact type		
Eccentric type : Number of contacts in 0.5mm housing	SH : SMT horizontal mounting type		
Standard type : Blank	SV : SMT vertical mounting type		
Eccentric type : Number of contacts	9 Plating specification		
	(55) : Gold plated		

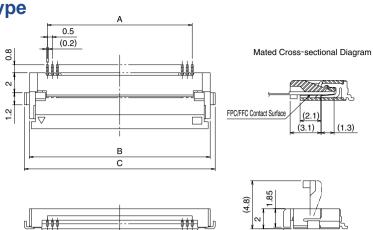
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-Roll for the products by the product of the content of the content

Series Configuration

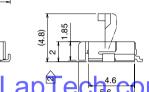
Pitch	Bottom Contact Type	Top Contact Type	Vertical mounting Type
		tion port	FPC conductive surface (bottom side)
W	WHY Kailap Tech.c	One were Ka	ail o Tech.com
0.5mm	Number of contacts 6, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 33, 34, 35, 36, 40, 45, 50, 53		
	Type with Strengthened Lock Lever		
W	FH12S- ** S-0.5SH P.13 Number of contacts 30, 40, 45, 50, 53 WW. Allapheenergy Type with 0.18mm FPC End Thickness FH12F- ** S-0.5SH Number of contacts 6, 8, 10, 12, 13, 14, 15,	FH12A- ** S-0.5SH P.15 Number of contacts 10, 12, 15, 16, 18, 20, 22, 24, 26, 28, 29, 30,	FH12- ** S-0.5SV P.16 Number of contacts 10, 12, 13, 15, 16, 17, 18, 20, 22, 24, 26, 30,
	16, 18, 20, 22, 24, 25, 26, 28, 30, 32, 34, 36, 40	32, 33, 34, 36, 40, 42, 45, 50	32, 33, 34, 36, 40, 45, 49, 50, 60
W	wwkailaptech.c	om www.Ka	PPC conductive surface (bottom side)
1mm			· Ø •
	Standard FH12- ** S-1SH P.18 Eccentric FH12- ** (**) SA-1SH Standard Number of contacts 5, 6, 7, 8, 9, 11,		
	12,16,17,22,26		FH12- ** S-1SV P.19
	Eccentric		Number of contacts 6, 7, 8, 16, 20, 22,
	Number of contacts 4, 6, 8, 10, 11, 14, 19, 24		24

■0.5mm Pitch Bottom Contact Type





www.KaiLapTech.com



Unit:mm

(1.3)

www.KaiLapTechtc

	-	0 1 11			-	•	_		
	Part Number	CL No.	Number of Contacts	A	В	С	D	RoHS	
	FH12- 6S-0.5SH(55)	586-0582-5-55	6	2.5	6.1	7.1	3.57		
	FH12- 8S-0.5SH(55)	586-0744-5-55	8	3.5	7.1	8.1	4.57		
	FH12-10S-0.5SH(55)	586-0522-3-55	10	4.5	8.1	9.1	5.57		
	FH12-11S-0.5SH(55)	586-0600-5-55	11	5	8.6	9.6	6.07		
	FH12-12S-0.5SH(55)	586-0704-0-55	12	5.5	9.1	10.1	6.57		
	FH12-13S-0.5SH(55)	586-0549-0-55	13	6	9.6	10.6	7.07		
	FH12-14S-0.5SH(55)	586-0533-0-55	14	6.5	10.1	11.1	7.57		
WW	FH12-15S-0.5SH(55)	<mark>586-0</mark> 523-6-55	n 15		10.6	11.6	8.07	ch.cd	om
	FH12-16S-0.5SH(55)	586-0531-4-55	16	7.5	11.1	12.1	8.57		
	FH12-17S-0.5SH(55)	586-0606-1-55	17	8	11.6	12.6	9.07		
	FH12-18S-0.5SH(55)	586-0530-1-55	18	8.5	12.1	13.1	9.57		
	FH12-19S-0.5SH(55)	586-0534-2-55	19	9	12.6	13.6	10.07		
	FH12-20S-0.5SH(55)	586-0524-9-55	20	9.5	13.1	14.1	10.57		
	FH12-22S-0.5SH(55)	586-0532-7-55	22	10.5	14.1	15.1	11.57	YES	
	FH12-24S-0.5SH(55)	586-0521-0-55	24	11.5	15.1	16.1	12.57	123	
	FH12-25S-0.5SH(55)	586-0692-3-55	25	12	15.6	16.6	13.07		
	FH12-26S-0.5SH(55)	586-0576-2-55	26	12.5	16.1	17.1	13.57		
	FH12-28S-0.5SH(55)	586-0612-4-55	28	13.5	17.1	18.1	<u>14.</u> 57		
Note 2	FH12-308-0.55H(55)	536-0525-1-55	n 30	V14\5/	N181	119 G	015.57	ch.co	SM
	FH12-32S-0.5SH(55)	586-0681-7-55	32	15.5	19.1	20.1	16.57		
	FH12-33S-0.5SH(55)	586-0520-8-55	33	16	19.6	20.6	17.07		
	FH12-34S-0.5SH(55)	586-0617-8-55	34	16.5	20.1	21.1	17.57		
	FH12-35S-0.5SH(55)	586-0740-4-55	35	17.0	20.6	21.6	18.07		
	FH12-36S-0.5SH(55)	586-0526-4-55	36	17.5	21.1	22.1	18.57		
Note 2	FH12-40S-0.5SH(55)	586-0527-7-55	40	19.5	23.1	24.1	20.57		
Note 2	FH12-45S-0.5SH(55)	586-0528-0-55	45	22	25.6	26.6	23.07		
Note 2	FH12-50S-0.5SH(55)	586-0529-2-55	50	24.5	28.1	29.1	25.57		
Note 2	FH12-53S-0.5SH(55)	586-0595-7-55	53	26	29.6	30.6	27.07		

Note 1 : Embossed tape reel packaging (2,000 pieces/reel).

Order by number of reels.

Note(2): If there is no problem with the connector height, we recommend the type with the strengthened Flip-lock actuator (FH12S-*S-0.5SH).

Standard type connector height: 2 mm

Connector height of type with strengthened Flip-lock actuator: 2.4 mm

SONY

[Product Brief]

Ver.1.0

IMX258

www.KaiLapTech.com

Diagonal 5.867 mm (Type 1/3.06) 13Mega-Pixel CMOS Image Sensor with Square Pixel for Color Cameras

Description

IMX258 is a diagonal 5.867mm (Type 1/3.06) 13 Mega-pixel CMOS active pixel type stacked image sensor with a square pixel array. It adopts Exmor RS[™] technology to achieve high speed image capturing by column parallel A/D converter circuits and high sensitivity and low noise image (comparing with conventional CMOS image sensor) through the backside illuminated imaging pixel structure. R, G, and B pigment primary color mosaic filter is employed.

WVBW introducing spatially multiplexed exposure echnology, high dynamic range still pictures and movies are of machine value. It

equips an electronic shutter with variable integration time. It operates with three power supply voltages: analog 2.7 V, digital 1.2 V and 1.8 V for input/output interface and achieves low power consumption.

In addition, this product is designed for use in cellular phone and tablet pc. When using this for another application, Sony does not guarantee the quality and reliability of product. Therefore, don't use this for applications other than cellular phone and tablet pc. Consult your Sony sales representative if you have any questions.

Functions and Features

- Back-illuminated and stacked CMOS image sensor Exmor RSTM
- Phase Detection pixel data output for Phase Detection Auto Focus
 High Dynamic Range (HDR) mode with raw data output.
 - High signal to noise ratio (SNR).
 - ◆ Full resolution @30fps (Normal / HDR). 4K2K @30fps (Normal / HDR) 1080p @60fps (Normal)
 - Output video format of RAW10/8.
 - Pixel binning readout and V sub-sampling function.
 - Independent flipping and mirroring.
 - CSI-2 serial data output (MIPI 2lane/4lane, Max. 1.3Gbps/lane, D-PHY spec. ver. 1.1 compliant)
 - ◆ 2-wire serial communication.
 - Two PLLs for independent clock generation for pixel control and data output interface.

Dynamic Defect Pixel Correction. COM Fast mode transition. (on the fly)

- Dual sensor synchronization operation.
- 4K bit of OTP ROM for users.
- Built-in temperature sensor.

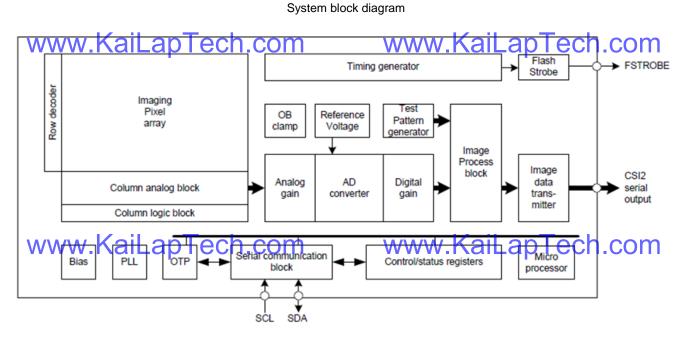
Device Structure

- CMOS image sensor
- Image size :
- Total number of pixels :
- Number of effective pixels :
- Number of active pixels :
- Chip size :
- Unit cell size :
- Substrate material :

Diagonal 5.867 mm (Type 1/3.06) 4224 (H) × 3192 (V) approx. 13.48 M pixels 4224 (H) × 3144 (V) approx. 13.28 M pixels 4208 (H) × 3120 (V) approx. 13.13 M pixels 5.990 mm (H) × 3.908 mm (V) 1.12 μm (H) × 1.12 μm (V)

.

Silicon



www.KaiLapTech.com

www.KaiLapTech.com



* Exmor RS is a trademark of Sony Corporation. The Exmor RS is a Sony's CMOS image sensor with high-resolution, high-performance and compact size by replacing a supporting substrate in Exmor R[™] which changed fundamental structure of Exmor [™] pixel adopted column parallel A/D converter to back-illuminated type, with layered chips formed signal processing circuits.



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
HRAFVXHKalLaplech.com	DVP HREF OUTPUTW, Kallap ech.con
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
AFERW.KaiLapTech.com	CEN chip enable active high on CM driver O. CON
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 ECh.COM	www.KaiLapTech.con
D0 D00 Y0	DVP data output port 0
D1 D01 Y1	DVP data output port 1
D2 D02 Y2	DVP data output port 2
D3 D03 Y3	DVP data output port 3
D4 D04 Y4	DVP data output port 4
D5 D05 Y5	DVP data output port 5
D6 D06 Y6	DVP data output port 6
D7 D07 Y7	DVP data output port 7
D8 D08 Y8	DVP data output port 8
D9 D09 Y9	DVP data output port 6
D10 D010 Y10	DVP data output port 10
D11 D011 Y11	DVP data output port 10

www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



Cameras Applications

your BEST camera module partner



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



your BEST camera module partner

Camera Reliability Test

Reliability Inspection Item			Tooting Mathed	Acceptone Oritoria	
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	
	Humidity	60°C 80% 24 Hours	Temperature Chamber	No Abnormal Situation	
www.	Thermal Shock Cycling in 24 Hours		www.KaiLap	Tech.com 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	
		50Hz Z-Axis 2mm 30min	Vibration Table	Electrically Functional	
www.	Cable Tensile Strength Test	Loading Weight 4 kg 60 Seconds Cycling in 24 Hours	WWW.KaiLap	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	C On/Off 250 Times	W Plug and Unplug a p	Electrically Functional	



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778

Camera Inspection Standard

your BEST camera module partner

Inspectior		n Item	Inspection Method	Standard of Inspection	
Category		ltem	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	
	Holder	Gap	The Naked Eye	Meet the Height Standard	
Appearance	riolder	Screw	The Naked Eye	Make Sure Screws Are Presented (If Any)	
WW	w.KaiL	ap Transfer.con	ך The Naked אין The Naked	The Inside Crack Exposure is Not Atlowed	
		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	
WW	w.KaiL	ap recn.cor	The Naked Eye	Not Allowed ap recn.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	n ^{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	
D:		Width	The Naked Eye	Follows Approval Data Sheet	
Dimer	ISION	Length	The Naked Eye	Follows Approval Data Sheet	
		Overall	The Naked Eye	Follows Approval Data Sheet	

www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



your BEST camera module partner

KLT Package Solutions

www.kaweren www.kaweren www.kaiLapTech.com

KLT Camera Module

Tray with Grid and Space



Complete with Lens Protection Film



Place Cameras on the Tray



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



your BEST camera module partner

Camera Modules Package Solution

Full Tray of Cameras



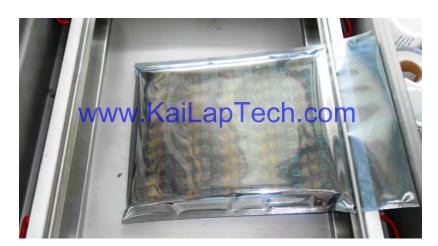
Put Tray into Anti-Static Bag

Cover Tray with Lid



Vacuum the Anti-Static Bag





www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



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



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



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



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



your BEST camera module partner

Small Order Package Solution

Place Foam Sheets and Trays into Small Box



www.KaiLapTech.com

Package in Small Box for Shipment

Foam Sheets are Nicely Fitting the Small Box



www.KaiLapTech.com

Place Small Boxes into Larger Box



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



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



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



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



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778



your BEST camera module partner

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



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778

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/on/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.



KUT

CMOS CAMERA MODULES

your BEST camera module partner

KLT Strength

Powerful Factory



Professional Service



Promised Delivery



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778