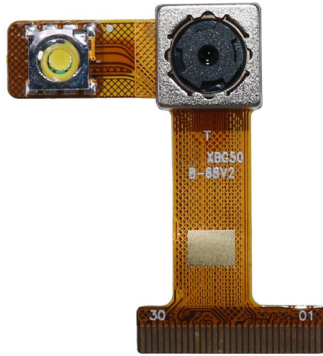
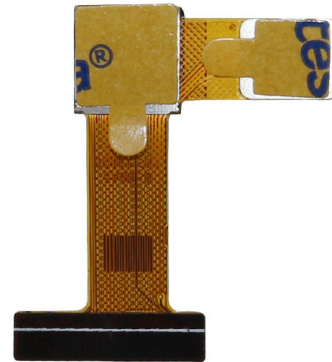


YDS-G4K-OV8858 V2.3

8MP OmniVision OV8858 MIPI-Schnittstelle LED Autofokus Kameramodul



Vorderansicht

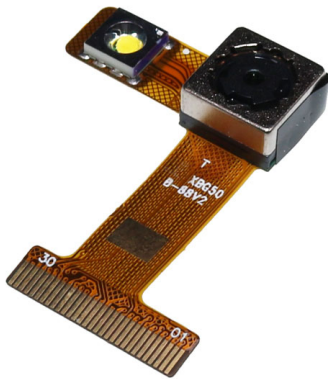


Rückansicht

Spezifikationen

| | |
|---------------------------------|-------------------------------------|
| Kameramodul Nr. | YDS-G4K-OV8858 V2.3 |
| Auflösung | 8MP |
| Bildsensor | OV8858-R2A |
| Sensorart | 1/4" |
| Pixel Größe | 1.12 um x 1.12 um |
| EFL | 2.96 mm |
| F.NO | 2.00 |
| Pixel | 3264 x 2448 |
| Betrachtungswinkel | 75.0°(DFOV) 62.8°(HFOV) 49.3°(VFOV) |
| Linsenabmessungen | 8.50 x 8.50 x 4.90 mm |
| Modulgröße | 28.70 x 26.15 mm |
| Modultyp | Autofokus with LED |
| Schnittstelle | MIPI |
| Autofokus-VCM-Treiber-IC | DW9714P |
| Linsenmodell | YDS-LENS-9570A3 |
| Linsentyp | 650 nm IR-Schnitt |
| Betriebstemperatur | -30°C to +85°C |
| Gegenstecker | FH12-30S-0.5SH |

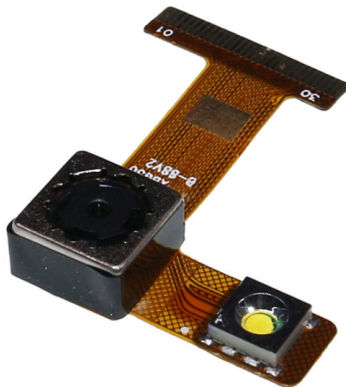
YDS-G4K-OV8858 V2.3 8MP OmniVision OV8858 MIPI-Schnittstelle LED Autofokus Kameramodul



Ansicht von oben



Seitenansicht



Untersicht



Gegenstecker

ROHS

| | |
|----|-----------|
| 1 | DGND |
| 2 | MCLK |
| 3 | DGND |
| 4 | AVDD2.8V |
| 5 | AGND |
| 6 | DVDD1.2V |
| 7 | DOVDD1.8V |
| 8 | DGND |
| 9 | AFVDD2.8V |
| 10 | SDA |
| 11 | SCL |
| 12 | RESET |
| 13 | PWDN |
| 14 | SID(GND) |
| 15 | DGND |
| 16 | MDP1 |
| 17 | MDN1 |
| 18 | DGND |
| 19 | MDP0 |
| 20 | MDN0 |
| 21 | DGND |
| 22 | MCP |
| 23 | MCN |
| 24 | DGND |
| 25 | LED1+ |
| 26 | LED2+ |
| 27 | LED1- |
| 28 | LED2- |
| 29 | STROBE |
| 30 | DGND |

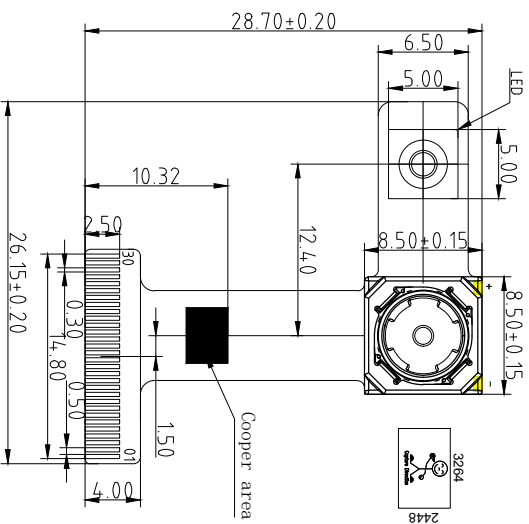
Parameters:

1、Sensor specification:

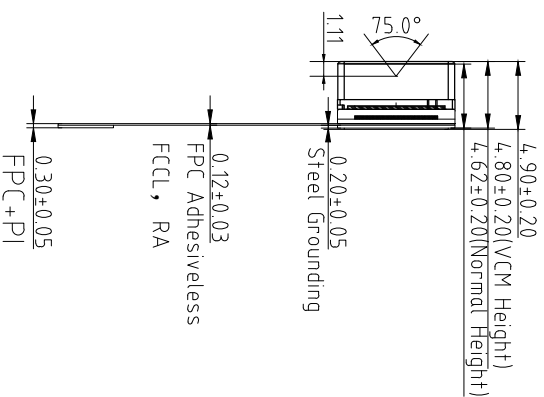
Image Sensor: OV8858-R2A
 Pixel: 1.2um×1.2um
 Lens Type: 1/4
 Important Voltage Description: DVDD1.2V
 (external power supply);

2、Lens specification:

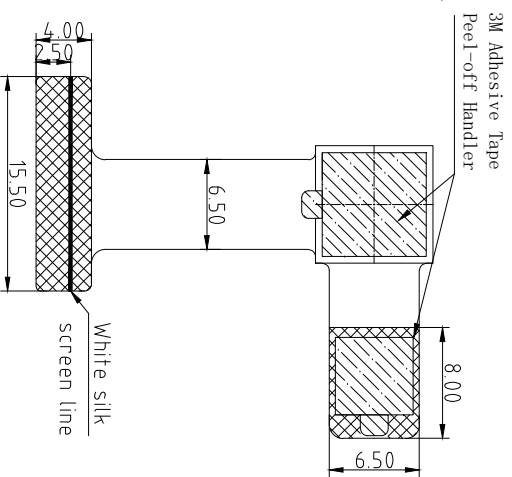
FOV: 75°(D);62.8°(H);49.3°(V);
 F/NO.: 2.0
 TV distortion: <1.0%
 Focal length: 2.96mm
 IR Cut Coating: 650nm±10nm@50%
 Sensor I2C:0X6C



TOP VIEW



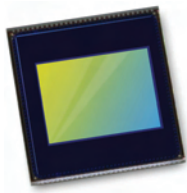
SIDE VIEW



BOTTOM VIEW

| Version | Information | Date |
|---------|---------------------|-----------|
| V1.0 | First Version | 6-23-2016 |
| V2.0 | Update layout | 7-27-2016 |
| V2.3 | Change lens and vcm | 5-7-2022 |

| | | | | | |
|-------------|------------|------------------|-----------------|-----------|----------|
| Designed By | Kevin | Model Name: | G4K-OV8858 V2.3 | | |
| Checked By | Aouly__Yan | Projection Type: | Unit: | Material: | |
| | | Third Angle | mm | | |
| | | | Scale: | Sheet: | Version: |
| | | | 1:1 | 1 of 1 | 1/0 |



OV8858 8MP product brief



available in
a lead-free
package

Cost-Effective 1/4-Inch 8-Megapixel Image Sensor with Video-in-Video Support for Mainstream Mobile Devices

OmniVision's OV8858 is a 1/4-inch 8-megapixel PureCel® image sensor for the rapidly growing mainstream smartphone and tablet market. The compact and cost-effective OV8858 sensor delivers dramatically reduced power consumption and best-in-class performance, making it a highly competitive solution for the next-generation of mobile devices.

Compared to OmniVision's previous-generation 1/4-inch 8-megapixel sensor, the OV8858 delivers a number of performance enhancements, including dramatically improved full-well capacity (FWC) and sensitivity for enhanced high- and low-light performance. It also offers a significant reduction in power consumption and form factor.

The sensor also features OmniVision's Video-in-Video (ViV®) technology, which stitches together images from the front- and rear-cameras, applies enhancements such as independent lens correction and color compensation, and sends the combined image to the host ISP. In ViV mode, users can capture a portrait scene perfectly alongside their own face, record video while narrating for

high quality video blogging, or utilize the feature for video conferencing. This is made possible by a special input MIPI receiver on the OV8858 that can accept image data from a wide range of OmniVision image sensors designed for front-facing applications of 2-megapixel and below, thus saving a camera port on the host ISP.

The OV8858 supports an active array of 3264 x 2448 pixels (8-megapixel) operating at 30 frames per second (fps) for zero shutter lag, enabling high-speed photography. The sensor is capable of recording 1080p high definition (HD) video at 60 fps, or 720p HD video at 90 fps, each with additional pixels for electronic image stabilization (EIS). The OV8858, when paired with OmniVision's latest 2-megapixel sensors, can provide full resolution ViV snapshot images at 15 fps and preview ViV video at 30 fps.

The OV8858 fits into an 8.5 x 8.5 mm camera module with a build height of approximately 4 mm.

Find out more at www.ovt.com.



OmniVision

Applications

- Cellular Phones
- PC Multimedia
- Tablets

Product Features

- 1.12 μm x 1.12 μm pixel
- optical size of 1/4"
- 32.9° CRA for -4 mm Z-height
- programmable controls for:
 - frame rate
 - mirror and flip
 - cropping
 - windowing
- supports images sizes:
 - 8MP (4:3 - 3264x2448)
 - 8MP (16:9 - 3264x1836)
 - EIS 1080p (2112x1188)
 - 1080p (1920x1080)
 - EIS 720p (1408x792), and more
- 8MP at 30 fps (720 Mbps/4-lane or 10-8 DPCM 1.104 Gbps/2-lane)
- two on-chip phase lock loops (PLLs)
- two-wire serial bus control (SCCB)
- built-in temperature sensor
- frame exposure mode for still image (with mechanical shutter)
- 4k bits of embedded one-time programmable (OTP) memory for customer use
- supports Video-in-Video (ViV*) mode using an on-chip 1-lane MIPI receiver and a secondary sensor
- special ViV features include:
 - ViV video at up to 30 fps
 - ViV snapshot at up to 15 fps
 - arbitrary positions and shapes for ViV window
 - separate AWB compensation for secondary sensor, and more
- image quality control:
 - defect pixel correction
 - automatic black level calibration
 - lens shading correction
 - alternate row HDR
- suitable for module size of 8.5 x 8.5 x -4 mm

OV8858



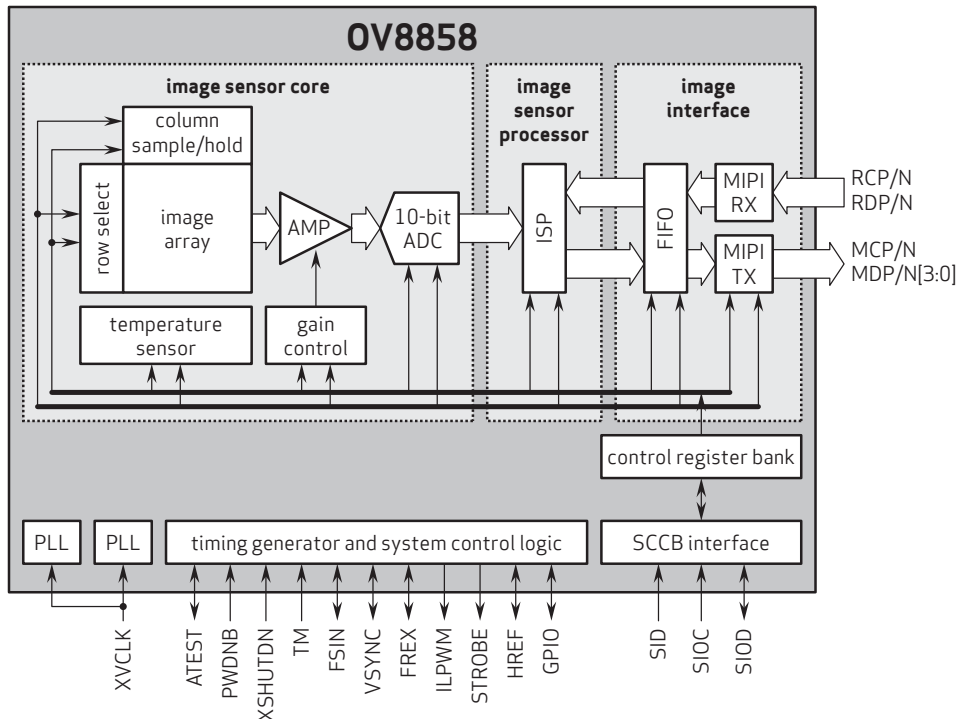
Ordering Information

- OV08858-G04A (color, chip probing, 200 μm backgrinding, reconstructed wafer with good die)

Product Specifications

- active array size: 3264 x 2448
- power supply:
 - analog: 2.6 to 3.0V (2.8V nominal)
 - core: 1.14 to 1.26V (1.2V nominal)
 - I/O: 1.7 to 3.0V (1.8V or 2.8V nominal)
- power requirements:
 - active: 153 mW
 - standby: 160 μW
 - XSHUTDOWN: 0.3 μW
- output formats: up to 4-lane MIPI serial output
- output formats: 10-bit RAW RGB data
- lens chief ray angle: 32.9° non-linear
- lens size: 1/4"
- input clock frequency: 6 - 27 MHz
- max S/N ratio: 35.8 dB
- dynamic range: 64.4 dB @ 8x gain
- maximum image transfer rate:
 - 3264 x 2448: 30 fps
 - 3264 x 1836: 30 fps
 - 2112 x 1184: 60 fps
 - 1920 x 1080: 60 fps
 - 1408 x 792: 90 fps
- sensitivity: 486 mV/Lux-sec
- scan mode: progressive
- pixel size: 1.12 μm x 1.12 μm
- dark current: 17 e-/sec @ 60°C junction temperature
- image area: 3678.3 μm x 2767.68 μm
- die dimensions:
 - COB: 5040 μm x 4590 μm
 - RW: 5090 μm x 4640 μm

Functional Block Diagram



4275 Burton Drive
Santa Clara, CA 95054
USA

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

OmniVision reserves the right to make changes to their products or to discontinue any product or service without further notice. OmniVision, the OmniVision logo, PureCel and ViV are registered trademarks of OmniVision Technologies, Inc. All other trademarks are the property of their respective owners.



OmniVision

FEATURES

- 120mA output driver with 10-bit resolution DAC
- Smart Actuator Control (SAC™) modes
- Supply voltage (V_{DD}): 2.3V to 4.3V
- I/O voltage (V_{IN}): 1.8V to V_{DD}
- Fast mode and Fast mode plus I²C interface compatible
- Power On Reset (POR)
- Power Down (PD) mode current consumption less than 1uA
- Package: 6-pin WLCSP (0.77mm x 1.14mm x 0.30mm)

APPLICATIONS

- Mobile camera
- Digital still camera
- Camcorder
- Web camera
- Action camera

GENERAL DESCRIPTION

The DW9714P designed for linear control of Voice Coil Motors (VCM). This device is compatible with DW9714. The DW9714P has a single 10-bit DAC with 120mA output current sink capability. This device features SAC™ mode which can minimize the mechanical vibration and achieve very fast mechanical settling time. The SAC™ is protected by patent and registered trademark of DONGWOON ANATECH.

The DW9714P operates from a single 2.3V to 4.3V supply. The internal DAC is controlled via an I²C serial interface that operates at clock rate up to 1MHz. The I²C address for the DW9714P is 0x18. The DW9714P offers PD mode with current consumption less than 1uA.

The DW9714P can be used for auto focus applications in mobile cameras, digital still cameras, camcorders, web cameras and action cameras.

TYPICAL APPLICATION CIRCUIT

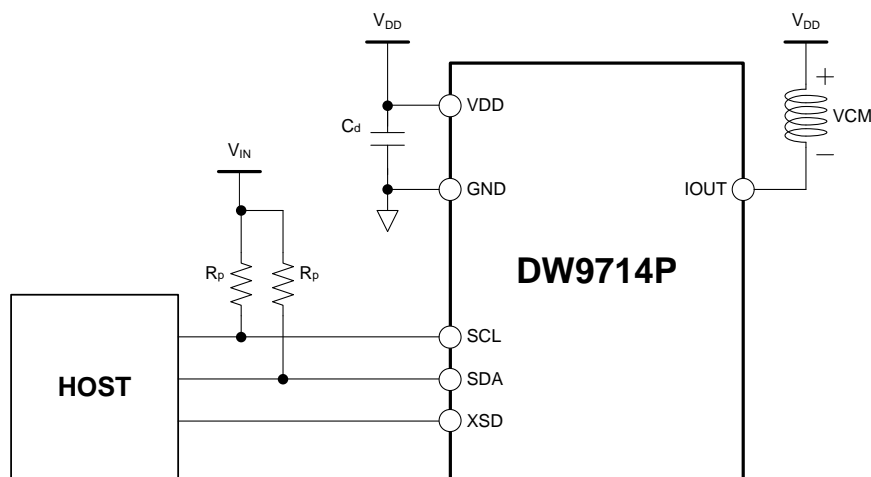
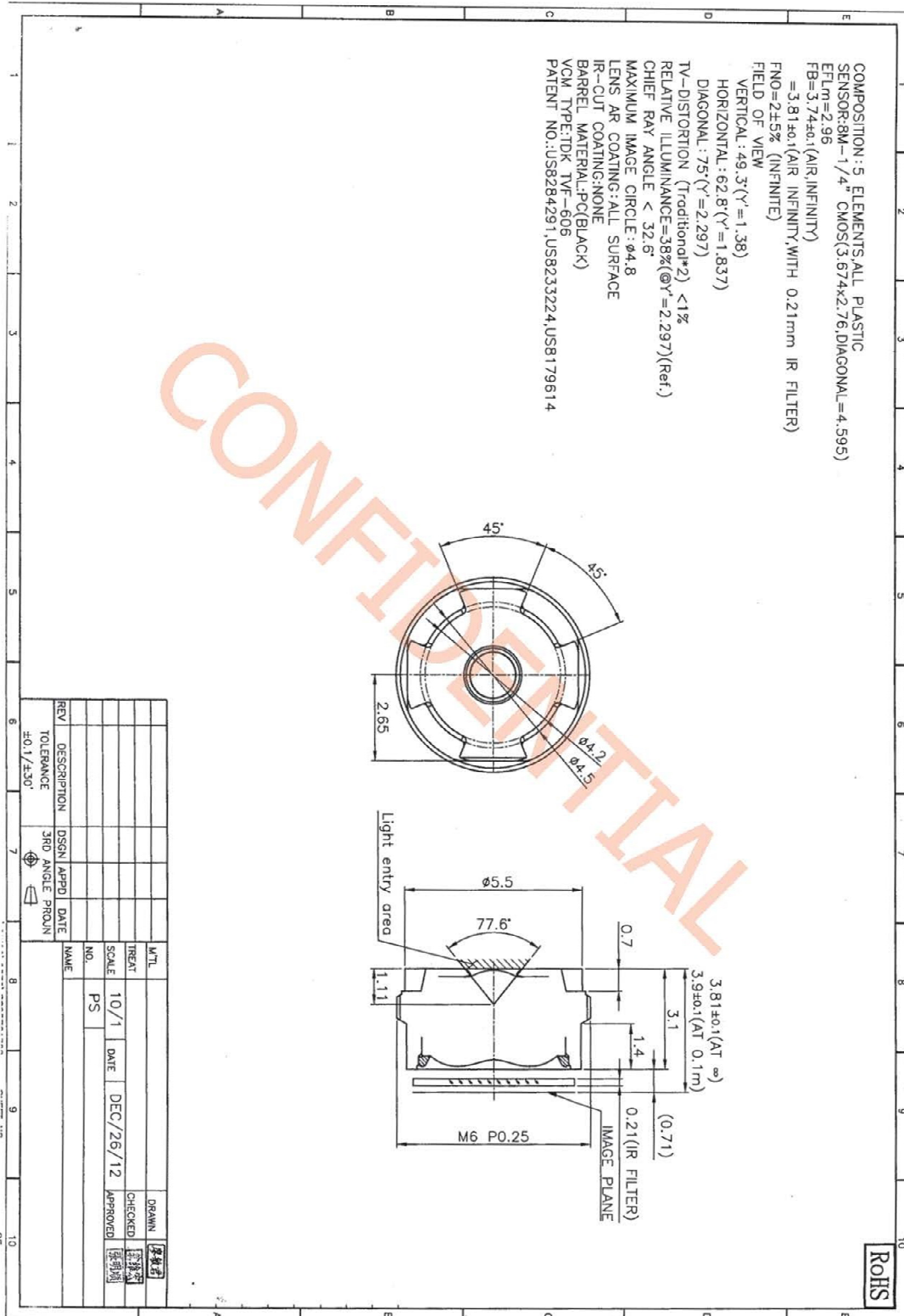


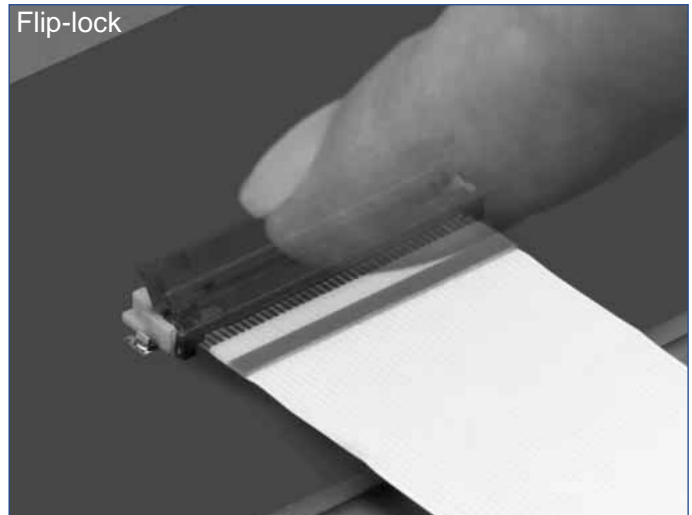
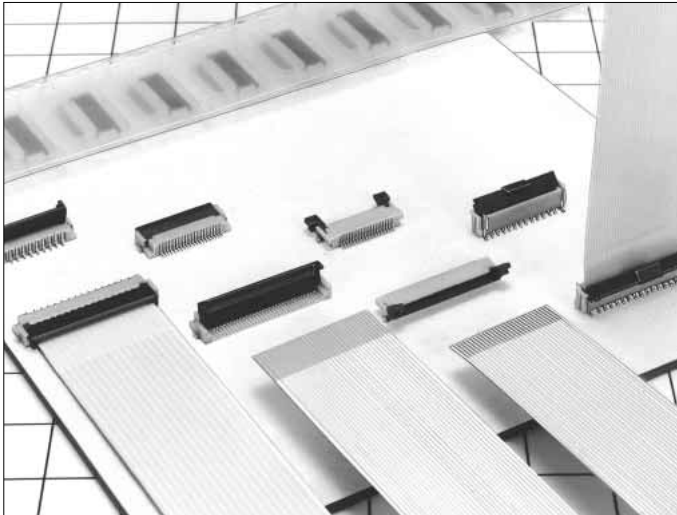
Figure 1. Typical application circuit

YDS-LENS-9570A3



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

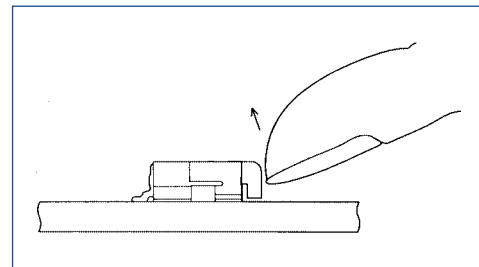
FH12 is offered in Top & Bottom Contact and Vertical Mount and offered in both a 0.5mm contact pitch as well as a 1.0mm contact pitch (bottom contact only).

■ Applications

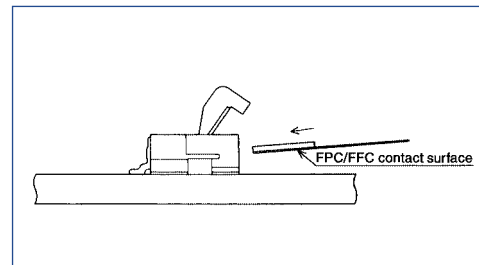
Notebook computers, printers, PDAs, digital cameras and other compact devices for interconnecting the main circuit board with the LCD, HDD or other device.

Rotating One-touch Mechanism

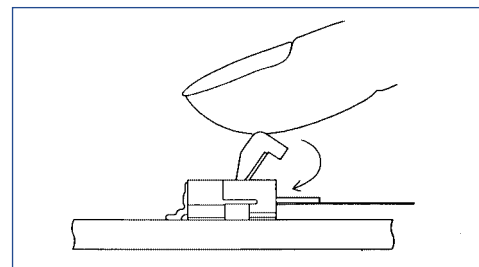
①



②



③



Product Specifications

| | | | |
|--------|---------------------------------|--|--|
| Rating | Current rating: 0.5A DC(Note 1) | Operating Temperature Range: -40 to +70°C (Note 2) | Storage Temperature Range: -10 to +50°C (Note 3) |
| | Voltage rating: 50V AC | Operating Humidity Range: Relative humidity, 90% max. (Not dewed) | Storage Humidity Range: Relative humidity, 90% max. (Not dewed) |

| | | |
|----------------|------------------------|----------------------------------|
| Applicable FPC | t=0.3±0.05 Gold plated | t=0.18 ± 0.05 for FH12F-*S-0.5SH |
|----------------|------------------------|----------------------------------|

| Item | Specification | Conditions |
|--------------------------------------|---|--|
| 1. Insulation resistance | 500M ohms minimum | 100V DC |
| 2. Withstanding voltage | No flashover or insulation breakdown. | 150V AC/1 minute |
| 3. Contact resistance | 50m ohms maximum | 1mA |
| 4. Durability (Insertion/withdrawal) | Contact resistance: 50m ohms maximum No damage, cracks, or parts dislocation. | 20 cycles |
| 5. Vibration | No electrical discontinuity of 1μs or more Contact resistance: 50m ohms maximum. No damage, cracks, or parts dislocation. | Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions. |
| 6. Shock | No electrical discontinuity of 1μs or more Contact resistance: 50m ohms maximum. No damage, cracks, or parts dislocation. | Acceleration of 490 m/s ² , 11 ms duration, sine half-wave waveform, 3 cycles in each of the 3 axis. |
| 7. Humidity(Steady state) | Contact resistance: 50m ohms maximum. Insulation resistance: 50M ohms minimum. No damage, cracks, or parts dislocation. | 96 hours at 40°C and humidity of 90% to 95% |
| 8. Temperature Cycle | Contact resistance: 50m ohms maximum. Insulation resistance: 50M ohms minimum. No damage, cracks, or parts dislocation. | Temperature: -40°C → 15 to 35°C → 85°C → 15 to 35°C, Time: 30 → 5 max. → 30 → 5 max.(minutes) 5 cycles |
| 9. Resistance to Soldering heat | No deformation of components affecting performance. | Reflow: At the recommended temperature profile Manual soldering: 350±5°C 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.

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

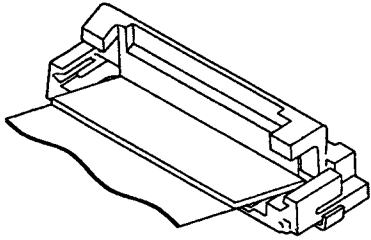
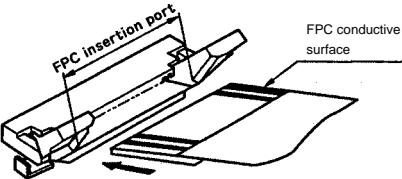
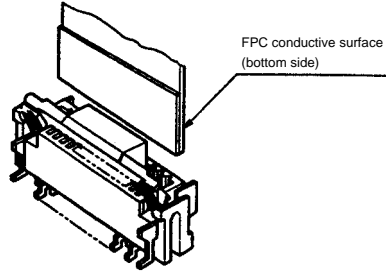
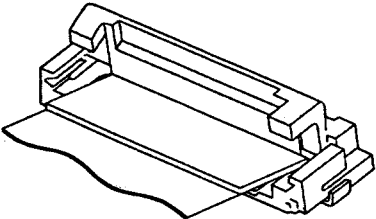
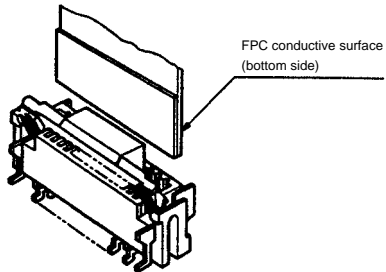
Ordering Information

FH12 **A** - **10** (**4**) - **S** **A** - **0.5** **SH** (**55**)
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

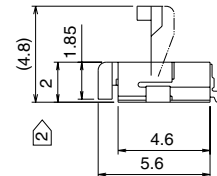
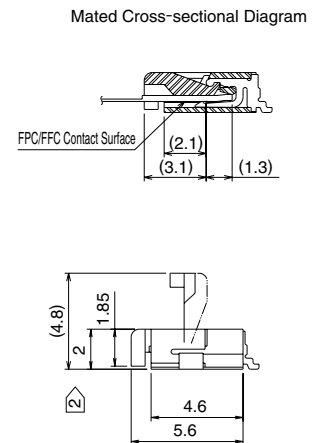
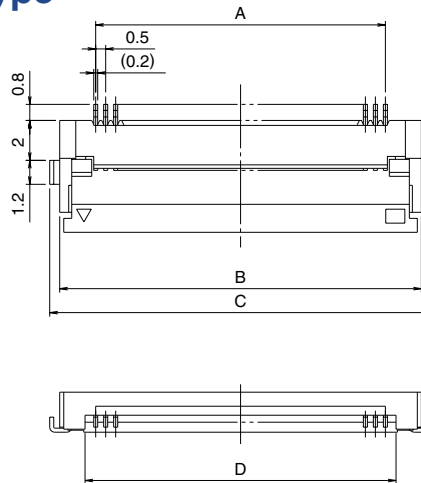
| | |
|--|--|
| ① Series Name : FH12 | ⑤ Contact alignment: Single |
| ② Blank : standard type A : Top contact type S : Type with strengthened flip-lock actuator F : Type with 0.18mm FPC End Thickness | ⑥ Eccentric direction: Blank : standard type A : Eccentric type |
| ③ Standard type : Number of contacts Eccentric type : Number of contacts in 0.5mm housing | ⑦ Contacts Pitch : 0.5mm, 1mm |
| ④ Standard type : Blank Eccentric type : Number of contacts | ⑧ Contact type SH : SMT horizontal mounting type SV : SMT vertical mounting type |
| | ⑨ Plating specification (55) : Gold plated |

FH12 Series 0.5mm and 1mm Pitch Connectors For FPC/FPC

Series Configuration

| Pitch | Bottom Contact Type | Top Contact Type | Vertical mounting Type |
|-------|--|--|--|
| 0.5mm |  <p>FH12- ** S-0.5SH P.12 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</p> |  |  |
| | Type with Strengthened Lock Lever | | |
| | <p>FH12S- ** S-0.5SH P.13 Number of contacts 30, 40, 45, 50, 53</p> | | |
| | Type with 0.18mm FPC End Thickness | | |
| | <p>FH12F- ** S-0.5SH P.14 Number of contacts 6, 8, 10, 12, 13, 14, 15, 16, 18, 20, 22, 24, 25, 26, 28, 30, 32, 34, 36, 40</p> | | |
| 1mm |  <p>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 Eccentric Number of contacts 4, 6, 8, 10, 11, 14, 19, 24</p> | |  <p>FH12- ** S-1SV P.19 Number of contacts 6, 7, 8, 16, 20, 22, 24</p> |

0.5mm Pitch Bottom Contact Type



Unit:mm

| Part Number | CL No. | Number of Contacts | A | B | C | D | RoHS |
|---------------------------|---------------|--------------------|------|------|------|-------|------|
| FH12- 6S-0.5SH(55) | 586-0582-5-55 | 6 | 2.5 | 6.1 | 7.1 | 3.57 | YES |
| 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 | |
| FH12-15S-0.5SH(55) | 586-0523-6-55 | 15 | 7 | 10.6 | 11.6 | 8.07 | |
| 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 | |
| FH12-24S-0.5SH(55) | 586-0521-0-55 | 24 | 11.5 | 15.1 | 16.1 | 12.57 | |
| 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 | 14.57 | |
| Note ② FH12-30S-0.5SH(55) | 586-0525-1-55 | 30 | 14.5 | 18.1 | 19.1 | 15.57 | |
| 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

Kameraanwendungen



Autopilot



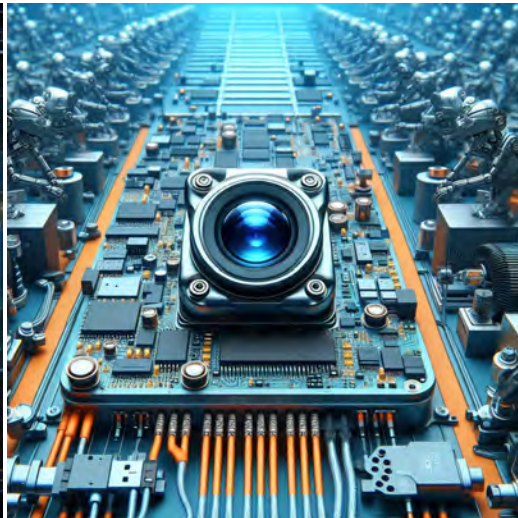
Live-Streaming



Videokonferenz



Biometrische Eye-Tracker-Erkennung



Maschinelles Sehen



Agrarmonitor



Nachtsichtsicherheit



Drohnen- und Sport-Adleraugen



Interaktive Haustierkamera

Referenztable für die Pinbelegungsdefinition des Kameramoduls

| OmniVision Sony Himax Samsung On-Semi Aptina Himax GalaxyCore PixArt Bildsensoren | |
|---|---|
| Pin Signal | Beschreibung |
| DGND GND | Masse für digitale Schaltung |
| AGND | Masse für analoge Schaltung |
| PCLK DCK | DVP-PCLK-Ausgang |
| XCLR PWDN XSHUTDOWN STANDBY | Abschalten aktiv hoch mit internem Pulldown-Widerstand |
| MCLK XVCLK XCLK INCK | Systemeingangsuhr |
| RESET RST | Aktiv Low mit internem Pull-up-Widerstand zurücksetzen |
| NC NULL | keine Verbindung |
| SDA SIO_D SIOD | SCCB-Daten |
| SCL SIO_C SOIC | SCCB-Eingangstakt |
| VSYNC XVS FSYNC | DVP-VSYNC-Ausgang |
| HREF XHS | DVP-HREF-Ausgang |
| DOVDD | Strom für E/A-Schaltung |
| AFVDD | Strom für VCM-Schaltung |
| AVDD | Strom für analoge Schaltung |
| DVDD | Strom für digitale Schaltung |
| STROBE FSTROBE | Strobe-Ausgang |
| FSIN | Synchronisieren Sie das VSYNC-Signal vom anderen Sensor |
| SID | SCCB letzte Bit-ID-Eingabe |
| ILPWM | mechanische Shutter-Ausgangsanzeige |
| FREX | Rahmenbelichtung / mechanischer Verschluss |
| GPIO | Allzweckeingänge |
| SLASEL | I2C-Slave-Adresse auswählen |
| AFEN | CEN-Chip aktivieren aktiv hoch auf VCM-Treiber-IC |
| MIPI Schnittstelle | |
| MDN0 DN0 MD0N DATA_N DMO1N | MIPI 1st negative Ausgabe der Datenspur |
| MDP0 DP0 MD0P DATA_P DMO1P | MIPI 1st positiver Ausgang der Datenspur |
| MDN1 DN1 MD1N DATA2_N DMO2N | MIPI 2nd negative Ausgabe der Datenspur |
| MDP1 DP1 MD1P DATA2_P DMO2P | MIPI 2nd positiver Ausgang der Datenspur |
| MDN2 DN2 MD2N DATA3_N DMO3N | MIPI 3rd negative Ausgabe der Datenspur |
| MDP2 DP2 MD2P DATA3_P DMO3P | MIPI 3rd positiver Ausgang der Datenspur |
| MDN3 DN3 MD3N DATA4_N DMO4N | MIPI 4th negative Ausgabe der Datenspur |
| MDP3 DP3 MD3P DATA4_P DMO4P | MIPI 4th positiver Ausgang der Datenspur |
| MCN CLKN CLK_N DCKN | MIPI Uhr negativer Ausgang |
| MCP CLKP MCP CLK_P DCKN | MIPI Takt positiver Ausgang |
| DVP Parallel Schnittstelle | |
| D0 DO0 Y0 | DVP Datenausgabeport 0 |
| D1 DO1 Y1 | DVP Datenausgabeport 1 |
| D2 DO2 Y2 | DVP Datenausgabeport 2 |
| D3 DO3 Y3 | DVP Datenausgabeport 3 |
| D4 DO4 Y4 | DVP Datenausgabeport 4 |
| D5 DO5 Y5 | DVP Datenausgabeport 5 |
| D6 DO6 Y6 | DVP Datenausgabeport 6 |
| D7 DO7 Y7 | DVP Datenausgabeport 7 |
| D8 DO8 Y8 | DVP Datenausgabeport 8 |
| D9 DO9 Y9 | DVP Datenausgabeport 9 |
| D10 DO10 Y10 | DVP Datenausgabeport 10 |
| D11 DO11 Y11 | DVP Datenausgabeport 11 |

Kamera-Zuverlässigkeitstest

| Zuverlässigkeitsprüfpunkt | | Testmethode | Akzeptanzkriterium | |
|---------------------------|------------------------------------|---|---------------------------|---------------------------|
| Kategorie | Artikel | | | |
| Umwelt | Lager Temperatur | Hoch 60°C 96 Std | Temperaturkammer | Keine anormale Situation |
| | | Niedrig -20°C 96 Std | Temperaturkammer | Keine anormale Situation |
| | Betriebs Temperatur | Hoch 60°C 24 Std | Temperaturkammer | Keine anormale Situation |
| | | Niedrig -20°C 24 Std | Temperaturkammer | Keine anormale Situation |
| | Feuchtigkeit | 60°C 80% 24 Std | Temperaturkammer | Keine anormale Situation |
| | Thermischer Schock | Hoch 60°C 0.5 Std Niedrig -20°C 0.5 Std Radfahren rein 24 Std | Temperaturkammer | Keine anormale Situation |
| Physisch | Falltest (Im freien Fall) | Ohne Verpackung 60cm | 10 Mal auf Holzboden | Elektrisch funktionsfähig |
| | | Mit Paket 60cm | 10 Mal auf Holzboden | Elektrisch funktionsfähig |
| | Vibrations Test | 50Hz X-Axis 2mm 30 Minuten | Vibrationstisch | Elektrisch funktionsfähig |
| | | 50Hz Y-Axis 2mm 30 Minuten | Vibrationstisch | Elektrisch funktionsfähig |
| | | 50Hz Z-Axis 2mm 30 Minuten | Vibrationstisch | Elektrisch funktionsfähig |
| | Zugfestigkeit des Kabels Krafttest | Gewicht laden 4 kg 60 Sekunden Radfahren rein 24 Std | Zugprüfmaschine | Elektrisch funktionsfähig |
| Elektrisch | ESD-Test | Kontaktaufnahme 2 KV | ESD-Prüfmaschine | Elektrisch funktionsfähig |
| | | Luftentladung 4 KV | ESD-Prüfmaschine | Elektrisch funktionsfähig |
| | Alterungstest | On/Off 30 Sekunden Radfahren rein 24 Std | Stromschalter | Elektrisch funktionsfähig |
| | USB-Anschluss | On/Off 250 Mal | Einstecken und ausstecken | Elektrisch funktionsfähig |



Kamerainspektionsstandard

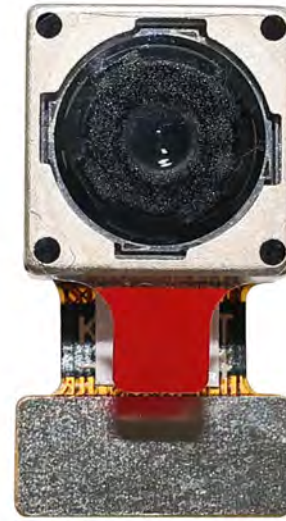
| Inspektionsgegenstand | | Untersuchungsmethode | Inspektionsstandard | |
|-----------------------|--------------|--------------------------|------------------------------|---|
| Kategorie | Artikel | | | |
| Aussehen | FPC oder PCB | Farbe | Das bloße Auge | Größere Unterschiede sind nicht zulässig. |
| | | Zerrissen/gehackt werden | Das bloße Auge | Das Freilegen von Kupferrissen ist nicht zulässig. |
| | | Markierung | Das bloße Auge | Klar, erkennbar (innerhalb von 30 cm Entfernung) |
| | Halterin | Kratzer | Das bloße Auge | Die Freilegung von Rissen im Inneren ist nicht zulässig |
| | | Lücke | Das bloße Auge | Erfüllen Sie den Höhenstandard |
| | | Schraube | Das bloße Auge | Stellen Sie sicher, dass Schrauben vorhanden sind (falls vorhanden) |
| | | Schaden | Das bloße Auge | Die Freilegung von Rissen im Inneren ist nicht zulässig |
| | Linse | Kratzen | Das bloße Auge | Keine Auswirkung auf den Auflösungsstandard |
| | | Kontamination | Das bloße Auge | Keine Auswirkung auf den Auflösungsstandard |
| | | Ölfilm | Das bloße Auge | Keine Auswirkung auf den Auflösungsstandard |
| | | Abdeckband | Das bloße Auge | Kein Problem beim Aussehen. |
| | Funktion | Bild | Keine Kommunikation | Testboard |
| Helles Pixel | | | Tafel | Im Image Center nicht erlaubt |
| Dunkles Pixel | | | Weißer Tafel | Im Image Center nicht erlaubt |
| Verschwommen | | | Das bloße Auge | Nicht erlaubt |
| Kein Bild | | | Das bloße Auge | Nicht erlaubt |
| Vertikale Linie | | | Das bloße Auge | Nicht erlaubt |
| Horizontale Linie | | | Das bloße Auge | Nicht erlaubt |
| Kleines Leck | | | Das bloße Auge | Nicht erlaubt |
| Blinkendes Bild | | | Das bloße Auge | Nicht erlaubt |
| Prellung | | | Inspektionslehre | Nicht erlaubt |
| Auflösung | | | Diagramm | Folgt dem Diagrammstandard für ausgehende Inspektionen |
| Farbe | | | Das bloße Auge | Kein Problem |
| Lärm | | | Das bloße Auge | Nicht erlaubt |
| Ecke dunkel | | | Das bloße Auge | Weniger als 100 x 100 Pixel |
| Farbauflösung | | | Das bloße Auge | Kein Problem |
| Abmessungen | Höhe | Das bloße Auge | Befolgt Zulassungsdatenblatt | |
| | Breite | Das bloße Auge | Befolgt Zulassungsdatenblatt | |
| | Länge | Das bloße Auge | Befolgt Zulassungsdatenblatt | |
| | Gesamt | Das bloße Auge | Befolgt Zulassungsdatenblatt | |

YDSCAM Paketlösungen

YDSCAM Kameramodul



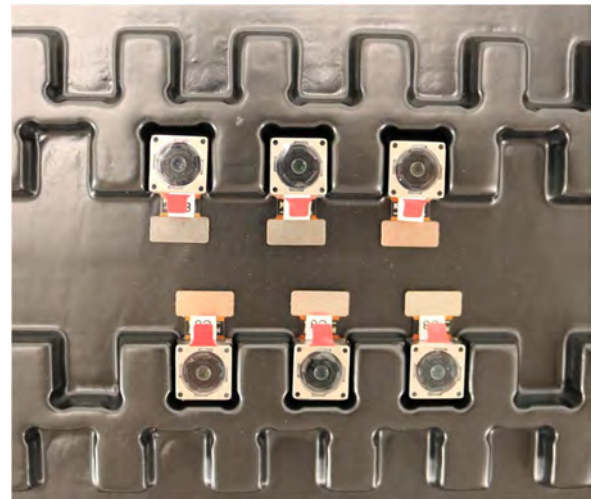
Komplett mit Linsenschutzfolie



Tablett mit Gitter und Raum



Legen Sie die Kameras auf das Tablett

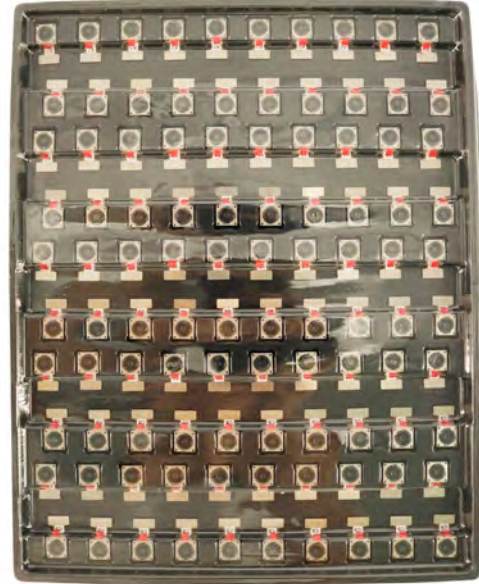


YDSCAM Paketlösungen

Volles Fach mit Kameras



Decken Sie das Tablett mit dem Deckel ab



Legen Sie das Tablett in den antistatischen Beutel



Staubsaugen Sie den antistatischen Beutel



YDSCAM Paketlösungen

Versiegelter antistatischer Vakuumbbeutel mit Etiketten

1. Modell und Beschreibung 2. Menge 3. Herstellungsdatumscode 4. Achtung



YDSCAM Paketlösungen

Legen Sie Schaumstoffplatten zwischen die Tablettbeutel



Schaumstoffplatten sind größer als Tablett



Legen Sie Schaumstoffplatten und Tablett in den Karton



Die Schaumstoffplatten sitzen fest im Karton



Verschließen Sie die Carbon Box



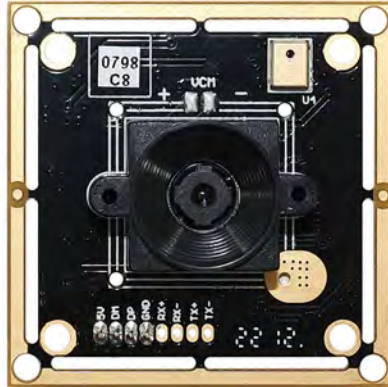
Beschriften Sie den Carbon-Versandkarton



YDSCAM Paketlösungen

USB-Kameramodul

Komplett mit Objektivschutzfolie



Legen Sie die Kameraprobe in den antistatischen Beutel

Legen Sie USB-Kameras in das Fach



Verschließen Sie das Tablett mit einem antistatischen Beutel

Beschriften Sie den Carbon-Versandkarton



YDSCAM Paketlösungen

Legen Sie die Kameraprobe in den antistatischen Beutel



Legen Sie die Steckverbinder in den antistatischen Beutel



Beschriften Sie die Probenbeutel



Stecken Sie die Steckverbinder in die Spule



Legen Sie Proben in die Carbonbox



Stecken Sie die Steckverbinder in die Carbonbox



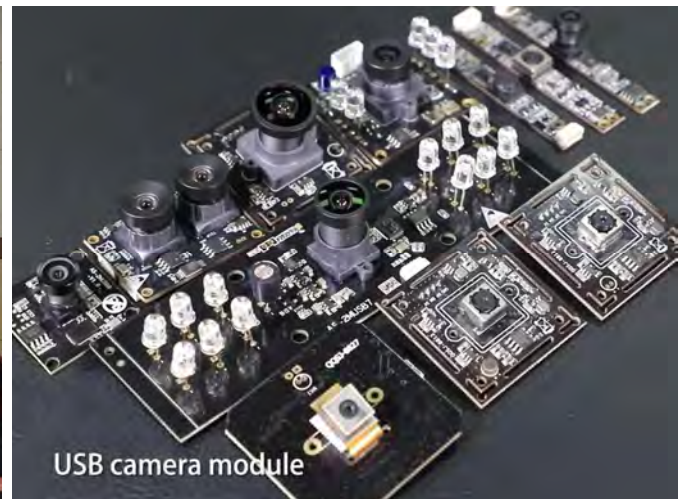


Firma YDSCAM

YingDeShun Co. Ltd. (YDS) wurde 2017 gegründet, ein technologieorientierter Hersteller der nächsten Generation, der sich auf Forschung, Design und Produktion von Audio- und Videoprodukten spezialisiert hat. YDS verfügt über 20.000 Quadratmeter große automatisierte Anlagen mit 100 Mitarbeitern und einem Jahresdurchsatz von 30.000.000 Kameraeinheiten.

YDS bietet OEM- und ODM-Design sowie Auftragsfertigung und baut die Kameraprodukte. Sie können uns die Anforderungen mitteilen, sogar mit einem Handentwurf. Unser Vertrieb und unsere Technik arbeiten zusammen, um Ihre Anforderungen zu erfüllen. Wir verstehen uns als Ihr langfristiger Partner bei der Entwicklung praktischer und innovativer Lösungen.

Unser Team deckt alles von der ersten Konzeptentwicklung bis zum Massenprodukt ab. YDS ist auf kundenspezifisches Kameradesign, Rohmaterial, Elektroniktechnik, Firmware-/Softwareentwicklung, Produkttests und Verpackungsdesign spezialisiert. Unsere erfahrenen strategischen Liefersysteme bieten eine robuste und zuverlässige Fertigungskapazität für Aufträge unterschiedlicher Größe.



Eingeschränkte Garantie

YDS gewährt die folgende eingeschränkte Garantie, wenn Sie das/die Produkt(e) direkt von der YDS-Firma oder über die YDS-Website www.YDSCAM.com erworben haben. Von anderen Verkäufern oder Quellen gekaufte Produkte fallen nicht unter diese eingeschränkte Garantie. YDS garantiert, dass die Produkte bei normalem Gebrauch für einen Zeitraum von einem (1) Jahr ab dem Datum, an dem Sie das Produkt erhalten („Garanzzeitraum“), frei von Material- und Verarbeitungsfehlern sind.

Für alle Produkte, die während der Garanzzeit wesentliche Material- oder Verarbeitungsfehler aufweisen oder entwickeln, wird YDS nach eigenem Ermessen entweder: (i) das/die Produkt(e) reparieren; (ii) das/die Produkt(e) durch ein/e neue oder generalüberholte(n) Produkt(e) ersetzen (wobei das/die Ersatzprodukt(e) vom identischen Modell oder einer gleichwertigen Funktion sein müssen); oder (iii) Ihnen eine Rückerstattung des Preises gewähren, den Sie für das/die Produkt(e) bezahlt haben.

Diese eingeschränkte Garantie von YDS beschränkt sich ausschließlich auf Reparatur und/oder Ersatz gemäß den oben dargelegten Bedingungen. YDS ist nicht zuverlässig oder verantwortlich für etwaige Folgeereignisse.





YDS CAMERA MODULE

your best camera partner

Unsere Unternehmensstärke

Leistungsstarke Fabrik



Professioneller Service



Versprochene Lieferung



www.YDSCAM.com sales@ydscam.com Phone (WeChat, QQ): (+86) 177 2732 6718

All rights reserved @ YingDeShun Co. Ltd. Specifications subject to change without notice.