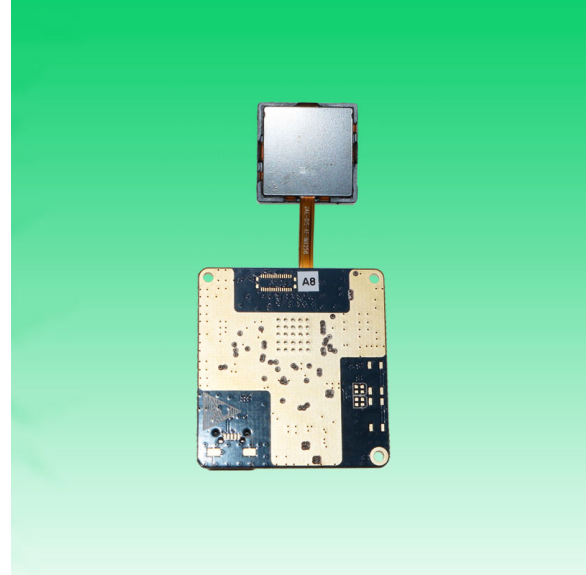
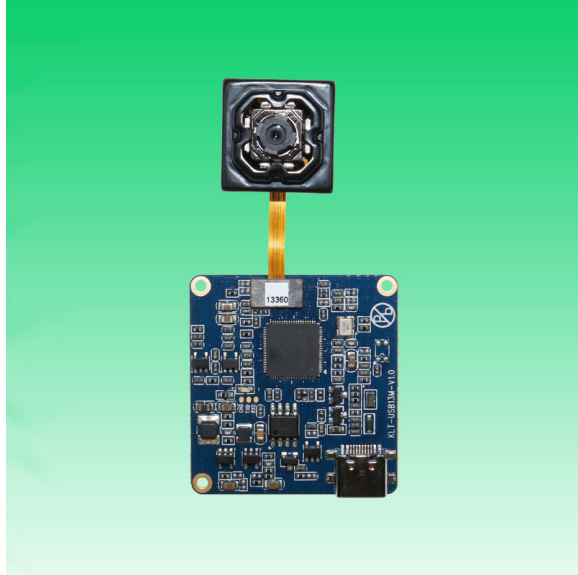


KLT-OIS-USB4A-FF-IMX258 V1.0**Modulo telecamera USB 2.0 a fuoco fisso Sony IMX258 OIS MGS da 13 MP**

KLT-OIS-USB4A-FF-IMX258 V1.0 è un modulo fotocamera USB a fuoco fisso da 13 MP basato sul sensore di immagine IMX258 da 1/3,06". Il Micro Gimbal Stabilizer (MGS) consente alla fotocamera di acquisire immagini chiare e nitide in ambienti in movimento. Fornisce immagini ultra nitide ad alta velocità con risoluzione 4K. La fotocamera è dotata di una funzione di messa a fuoco fissa dedicata e ad alte prestazioni che fornisce immagini e output video migliori della categoria. Questo modulo fotocamera è la soluzione ideale per droni, automobili, agricoltura, apparecchiature mediche e monitoraggio del traffico.

Caratteristiche principali

- (1) Sensore Sony IMX258 con risoluzione 4K (4224 x 3192).
- (2) Micro Gimbal Stabilizer (MGS) sulla piattaforma di stabilizzazione ottica dell'immagine (OIS).
- (3) USB 2.0 Plug and Play ad alta velocità
- (4) Formato di output MJPG
- (5) Basso consumo energetico
- (6) Dimensioni compatte
- (7) UVC compatibile con Windows, Linux, sistema operativo con driver UVC
- (8) Supporto USB OTG (On-The-Go).

Modulo telecamera n.	KLT-OIS-USB4A-FF-IMX258 V1.0
Risoluzione	13 MP
Sensore di immagine	IMX258 con MGS OIS
Tipo di sensore	1/3.06"
Dimensione Pixel	1.12 μm x 1.12 μm
EFL	2.35 mm
F.NO	2.40
Metodo di stabilizzazione	Stabilizzazione ottica dell'immagine (OIS)
Tipo di stabilizzatore	Stabilizzatore micro cardanico (MGS)
Asse stabilizzatore n.	2 assi (beccheggio e imbardata)
Angolo stabilizzatore	Massimo 3.0°
Potenza stabilizzatrice	180 mW
Pixel	4224 x 3192
Angolo di visione	127.0°(DFOV) 99.5°(HFOV) 70.0°(VFOV)
Dimensioni delle lenti	19.0 x 19.0 x 9.90 mm
Tipo di modulo	Messa a fuoco fissa
Driver VCM per messa a fuoco automatica IC	Nessuno
Interfaccia	USB 2.0
Formato di output	MJPEG
Controllo automatico	Saturazione. Contrasto. Acutezza. Bilanciamento del bianco. Esposizione
Audio	Nessuno
Tensione di ingresso	CC 5V
Corrente di lavoro	Massimo 500 mA
Compatibilità del sistema	Windows XP (SP2. SP3). Vista. 7. 8. 10. 11 Android. Mac OS. Linux o OS con driver UVC Raspberry Pi tramite porta USB
Software per fotocamera USB	AMCAP. Webcam Viewer. V4L2 controlla Contacam. VLC Player. MotionEye OS iSpy. ZoneMider. Yawcam
Tipo di lente	Taglio IR a 650 nm
Temperatura di esercizio	da -20°C a +70°C
Cavo USB	KLT-Cable-U006



KLT-OIS-USB4A-FF-IMX258 V1.0

Modulo telecamera USB 2.0 a fuoco fisso Sony IMX258 OIS MGS da 13 MP



Vista dall'alto



Vista laterale



Vista dal basso

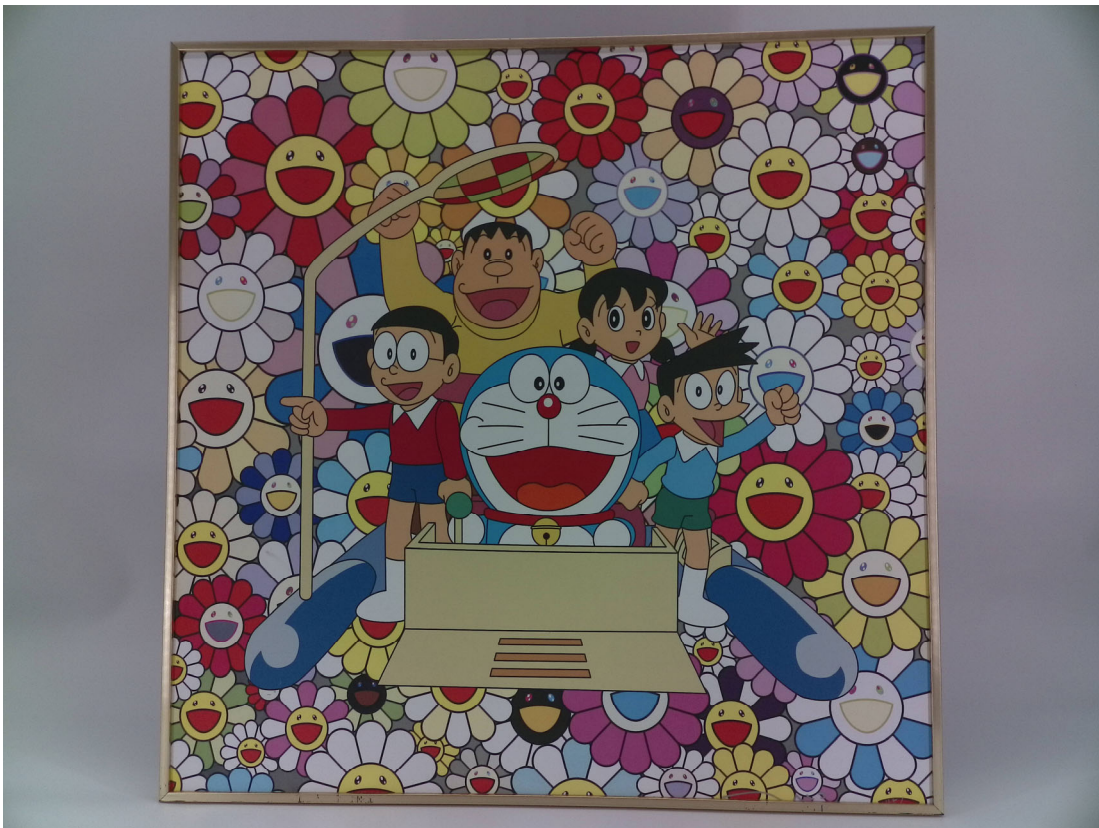


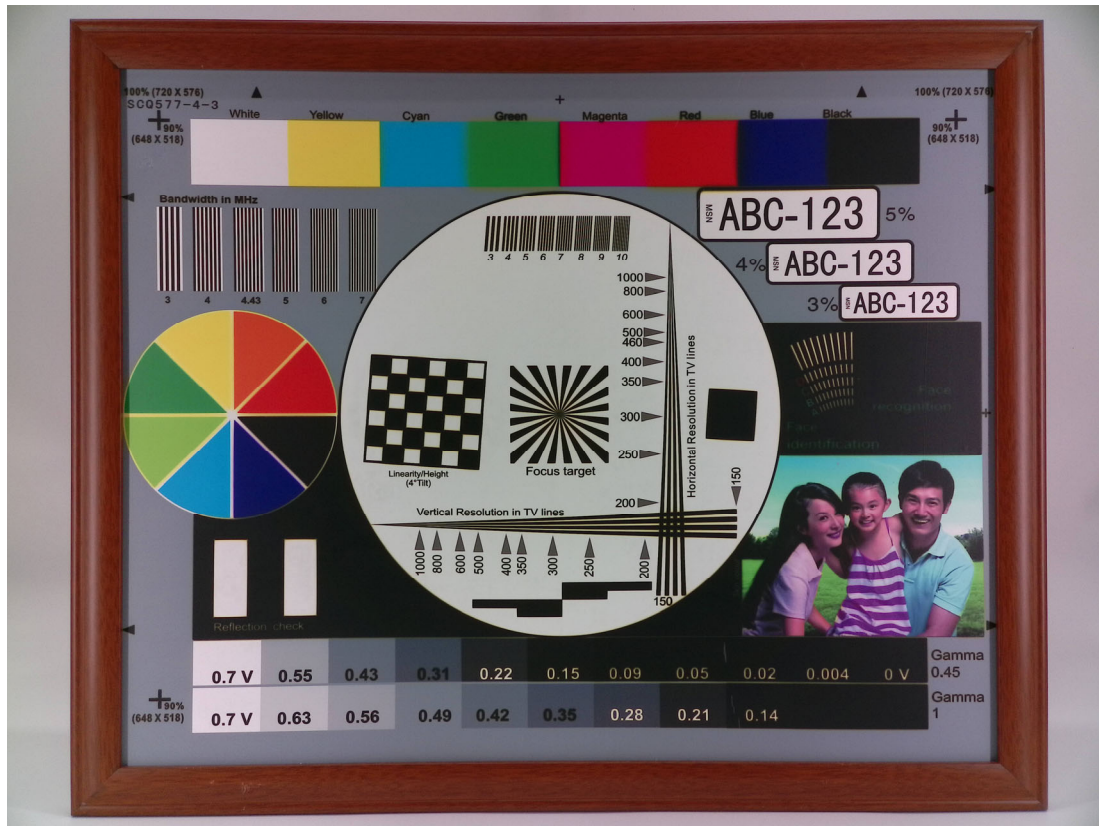
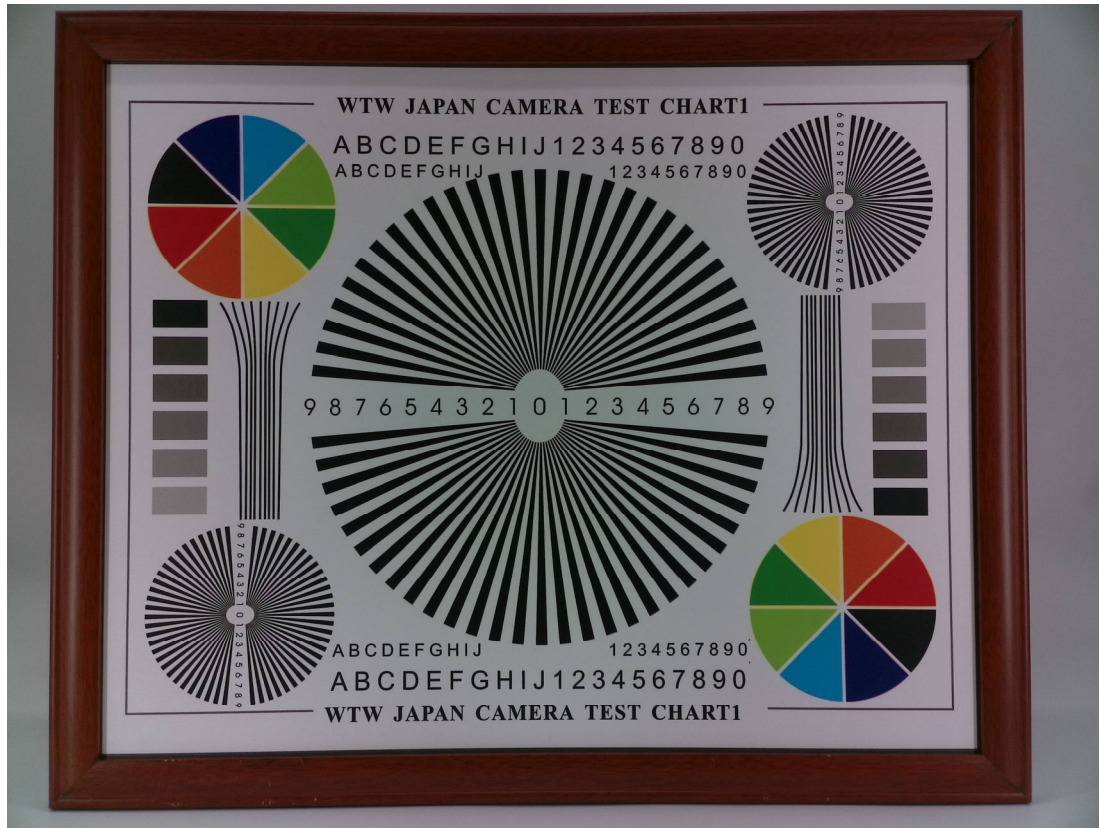
Connettore di accoppiamento

KLT-OIS-USB4A-FF-IMX258 V1.0**Modulo telecamera USB 2.0 a fuoco fisso Sony IMX258 OIS MGS da 13 MP**

FORMAT	RESOLUTION	FRAME RATE
		USB 2.0
MJPEG	320 x 240	25 FPS
	640 x 480 (VGA)	25 FPS
	800 x 600	25 FPS
	1024 x 768	25 FPS
	1280 x 720 (720P)	25 FPS
	1600 x 1200	25 FPS
	1920 x 1080 (1080P)	25 FPS
	2592 x 1944 (5MP)	10 FPS
	3264 x 2448 (8MP)	10 FPS
	3840 x 2160	10 FPS
	4192 x 3104	10 FPS

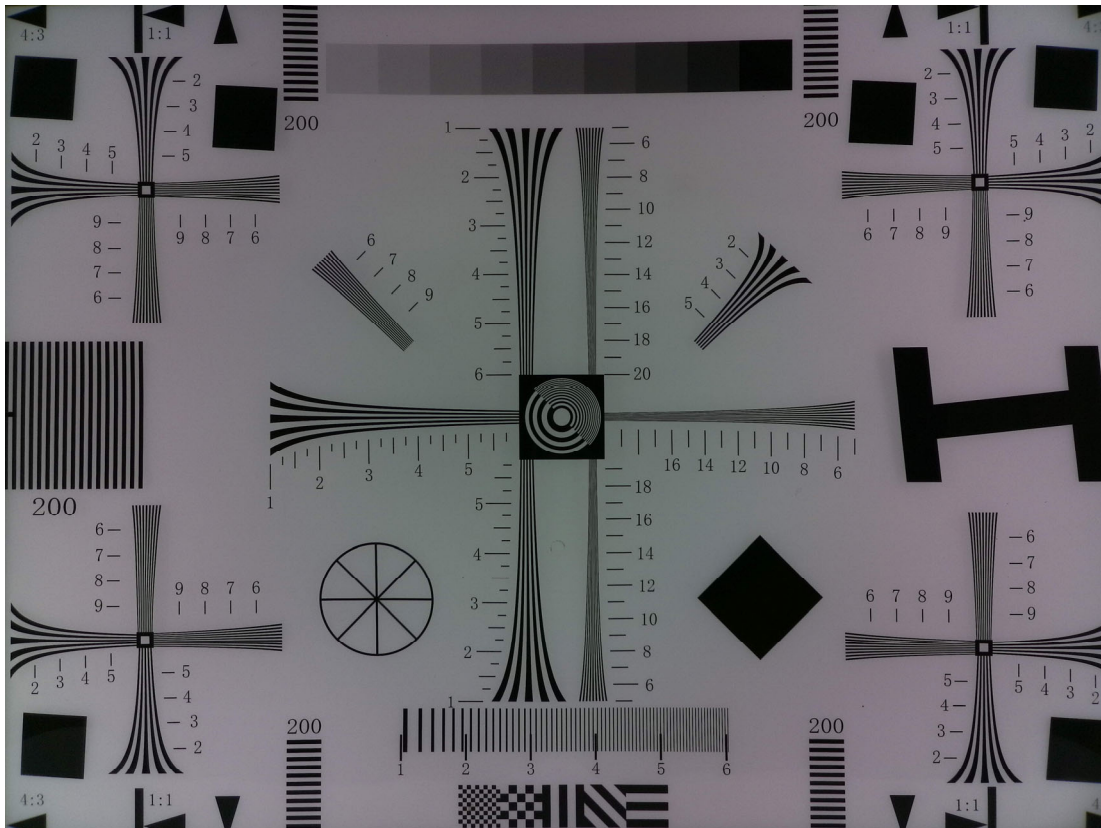












[Product Brief]

Ver.1.0

IMX258

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. By introducing spatially multiplexed exposure technology, high dynamic range still pictures and movies are achievable. 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.

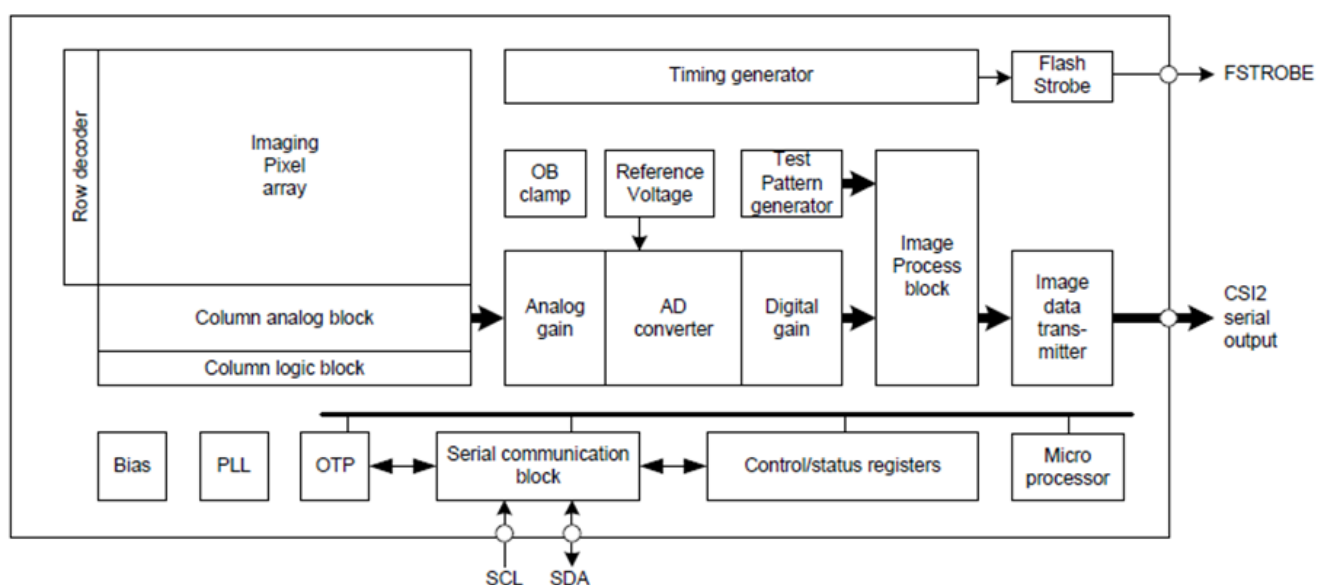
Functions and Features

- ◆ 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.
- ◆ 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 : Diagonal 5.867 mm (Type 1/3.06)
- ◆ Total number of pixels : 4224 (H) × 3192 (V) approx. 13.48 M pixels
- ◆ Number of effective pixels : 4224 (H) × 3144 (V) approx. 13.28 M pixels
- ◆ Number of active pixels : 4208 (H) × 3120 (V) approx. 13.13 M pixels
- ◆ Chip size : 5.990 mm (H) × 3.908 mm (V)
- ◆ Unit cell size : 1.12 μm (H) × 1.12 μm (V)
- ◆ Substrate material : Silicon

System block diagram



Exmor RS

* 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.