



Diagonal 6.6 mm (Type 1/2.7) CMOS Solid-state Image Sensor with Square Pixel for Color Cameras

INX8201-B

Brief Datasheet

V2.0

Description

The INX8201-B is a diagonal 6.6 mm (Type 1/2.7) CMOS solid-state image sensor with a square pixel array and 8 M effective pixels. This chip operates with analog 2.8 V, digital 1.5 V, and interface 1.8 V triple power supply, and has HDR , 850nm/940nm NIR. High sensitivity, high signal to noise ratio. This chip features low power consumption

(Application: Security cameras/ Mobile device cameras/ Smart home cameras)

Features

- Staggered HDR
- High sensitivity
- High signal to noise ratio
- High sensitivity
- 850nm/940nm NIR
- Low power consumption
- External control frame rate, multiple sensors synchronization
- 32 x analog gain, 4 x digital gain
- Programmable I2C port register

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Device Structure

- ◆ CMOS image sensor
- ◆ Image size
Diagonal 6.6 mm (Type 1/2.7) approx. 8 M pixels, All pixels
- ◆ Total number of pixels
3840 (H) × 2160 (V) approx. 8.29 M pixels
- ◆ Unit cell size
1.5 μm (H) × 1.5 μm (V)
- ◆ Substrate material Silicon

Absolute Maximum Ratings

Item	Symbol	Min.	Max.	Unit	Remarks
Supply voltage (analog: 2.8 V)	AV _{DD}	-0.3	3.4	V	—
Supply voltage (interface: 1.8 V)	OV _{DD}	-0.3	2.2	V	—
Supply voltage (digital: 1.2 V)	DV _{DD}	-0.3	1.65	V	—
Input voltage	VI	-0.3	OV _{DD} + 0.3	V	—
Output voltage	VO	-0.3	OV _{DD} + 0.3	V	—
Operating temperature	Topr	-30	85	°C	—
Storage temperature	Tstg	-40	85	°C	—

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