Automotive (Automotive Grade) System Series



Introductions

The UI2-OS02K10-1080P-MIPI_LH-XASZ-DR2200 is a high-reliability, automotive-grade camera module integrated with OmniVision's advanced OS02K10 CMOS image sensor. Purpose-built for vehicular vision networks, it utilizes a high-speed MIPI interface paired with an ultra-bright F1.55 wide aperture to deliver stellar, low-noise Full HD (1080P) imagery across challenging day and night conditions. Boasting an active resolution of 1920 x 1080 and a large 2.9μm x 2.9μm pixel architecture, this robust module yields the exceptional clarity, extreme low-light sensitivity, and broad horizontal coverage (115.6° H-FOV) crucial for intelligent driving assistance and automotive safety systems.

Features

* Premium automotive-grade OmniVision OS02K10 Full HD image sensor.
* High-sensitivity 2.9μm pixel architecture ensures outstanding night vision.
* Ultra-bright F1.55 wide-aperture lens for superior low-light performance.
* Advanced 2G+4P+IR lens composition minimizes optical distortion.
* High-speed MIPI interface for reliable, low-latency video streaming.

Applications

* Next-generation automotive surround-view networks.
* Advanced Driving Assistance Systems
* Rearview and blind-spot monitoring cameras.
* Fleet Management Solutions

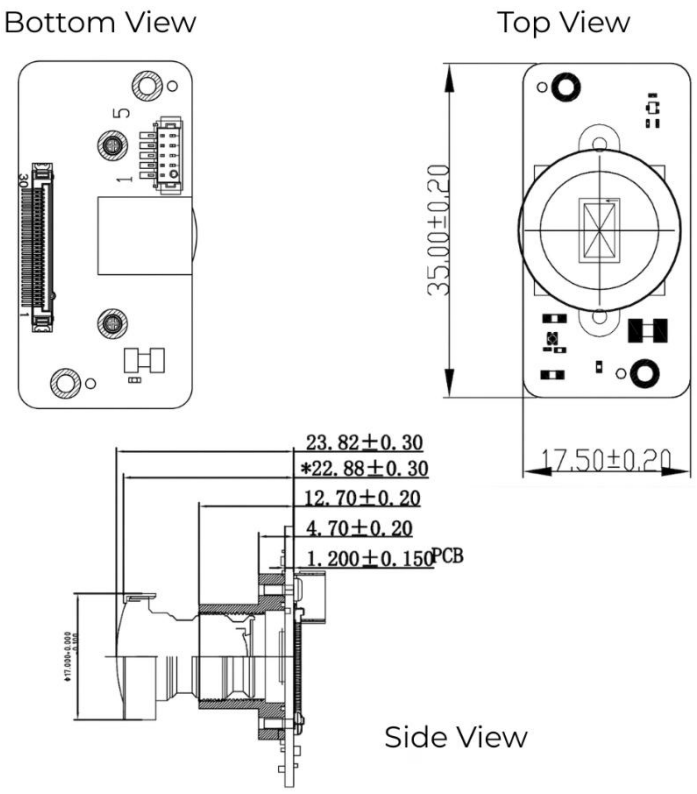
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Specifications

Model Name	UI2-OS02K10-1080P-MIPI_LH-XASZ-DR2200 MD
Sensor Type	OS02K10
Pixel Size	2.9μm * 2.9μm
Active Pixel Array / Resolution	1920 X 1080
Optical Format	1/2.8 inch
Sensor I2C Address	0x6C(W) / 0x6D(R)
PDWN Control (High/Low Active)	Low Active
IR Bandwidth / Wavelength	650-670nm (T=50%)
Chief Ray Angle (Sensor)	9°
Lens Type	/
Lens Construction	2G4P+IR
Effective Focal Length (EFL)	3.0mm
Aperture (F No.)	1.55
Field of View (FOV)	D136.6° H115.6° V61.6°
Distortion	<-14.6%
Focusing Range	5M
Image Circle	TBD
Chief Ray Angle (Lens)	<17°

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Outline Dimensions



Pin Define

1	MDN0	11	MDP2	21	RESET
2	MDP0	12	DGND	22	PWDNB
3	DGND	13	MDN3	23	BREATH_EN
4	MDN1	14	MDP3	24	SDA_LED
5	MDP1	15	DGND	25	SCL_LED
6	DGND	16	SCL	26	DOVDD (1.8V)
7	MCN	17	SDA	27	DOVDD (1.8V)
8	MCP	18	DGND	28	3.3V
9	DGND	19	MCLK	29	3.3V
10	MDN2	20	DGND	30	3.3V

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