

# **LI-OV2311-MIPI-M8-H110 SPECIFICATION**

**Rev 1.1  
Leopard Imaging Inc.**

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## Version History

Version	Description	Release Date
1.0	First Release.	25. Jul. 2018
1.1	Deleted info quoted from sensor spec.	20. May. 2022

# LI-OV2311-MIPI-M8-H110 SPECIFICATION

## Key Information

Module Part#		LI-OV2311-MIPI-M8-H110
Module Size		38.00 (L) x 10.00 (W) x 17.46 (H) mm
Sensor Type		OV2311 Mono sensor
Array Size		1600 (H) x 1300 (V)
Power Supply	Core	1.2V (nominal)
	Analog	2.8V (nominal)
	I/O	1.8V (nominal)
Lens		1/2.9"
F/No.		2.0
Focal Length		2.65 mm
View Angle		110° (H)
TV Distortion		< -15%
Object Distance		50 cm ~ Infinity
Sensitivity		TBD
Pixel Size		3 x 3µm
IR Cut Filter		No
Temperature Range	Operating	-10°C to +60°C
Output Formats		Mono RAW output
Maximum Image Transfer Rate		1600 x 1300 @ 60 fps
Dynamic Range		TBD
Lens Chief Ray Angle		15° linear
Input Clock Frequency		6 ~ 27 MHz
Power Requirement	Active	190 mW
	Standby	130 mW
	XSHUTDOWN	< 10 uW
Fixed Pattern Noise		TBD
Shutter		Global shutter
Dark Current		TBD
Image Area		4857.7 x 3955.9 µm
Package Dimensions		7219 x 6157 µm

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## Pin Assignment

No.	Name	Pin Type	Description
1	SDA	I/O	SCCB data
2	SCL	Input	SCCB input clock
3	DOVDD1.8V	Power	Power for I/O circuit
4	MCP	Output	MIPI clock positive output
5	MCN	Output	MIPI clock negative output
6	DGND	Ground	
7	MDP0	Output	MIPI data positive output
8	MDN0	Output	MIPI data negative output
9	DGND	Ground	
10	MDP1	Output	MIPI data positive output
11	MDN1	Output	MIPI data negative output
12	DGND	Ground	
13	PWM	I/O	PWM output
14	ATEST	Reference	Analog test
15	AGND	Ground	
16	FSIN	I/O	Frame sync input
17	SID	Input	Chip ID selection
18	DVDD1.2V	Power	Power for digital circuit
19	XCLK	Input	System input clock
20	STROBE	I/O	Strobe output
21	XSHUTDOWN	Input	Reset and power down (active low)
22	AVDD2.8	Power	Analog power
23	ULPM	Output	ULPM open-drain output
24	DGND	Ground	

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## Mechanical Diagram

