

LI-OV9782-MPI-103H

SPECIFICATION

Rev 1.2
Leopard Imaging Inc.

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Version History

Version	Description	Release Date
1.0	First Release.	10. Oct. 2017
1.1	Updated pin assignment.	28. Feb. 2018
1.2	Deleted info quoted from sensor spec.	20. May. 2022



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Key Information

Module Part#		LI-OV9782-MIPI-103H
Sensor Type		OV9782
Array Size		1296 (H) x 816 (V)
Power Supply	Core	1.2V
	Analog	2.8V
	I/O	1.8V
Lens Size		1/4"
F.NO		2.5
FOV		103° (HFOV)
Focal Length		2.0 mm
Focusing Range		30 cm ~ Infinity (Lens is not glued)
TV Distortion		< -88 %
Sensitivity		TBD
Pixel Size		3 x 3 μm
IR Filter		No filter
Sensor Temperature Range	Operating	-30°C to +85°C
	Stable Image	0°C to +50°C
Output Formats		10-bit RAW
Maximum Image Transfer Rate		1280 x 800: 120 fps
Max S/N Ratio		TBD
Scan Mode		Progressive
Power Requirement	Active	134 mW
	Standby	65 μA
	XSHUTDOWN	50 μA
Interface		MIPI
Color / Mono		Color



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	I/O	MIPI positive clock
5	MCN	I/O	MIPI negative clock
6	DGND	Ground	
7	MDP0	I/O	MIPI positive data [0]
8	MDN0	I/O	MIPI negative data [0]
9	DGND	Ground	
10	MDP1	I/O	MIPI positive data [1]
11	MDP1	I/O	MIPI negative data [1]
12	DGND	Ground	
13	ILPWM	I/O	Mechanical Shutter output indicator
14	GPIO2	I/O	General purpose I/O
15	AGND	Ground	
16	FSIN	I/O	Frame sync input
17	SID	Input	SCCB ID select input
18	DVDD1.2V	Power	Power for digital circuit
19	XCLK	Input	System input clock
20	STROBE	I/O	Frame exposure output indicator
21	RESET	Input	Reset and power down (active low with internal pull down resistor)
22	AVDD2.8V	Power	Analog power
23	ULPM	I/O	ALS trigger indicator
24	GND	Ground	



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Mechanical Diagram

