

LI-IMX219-MIPI-FF-NANO SPECIFICATION

Model:

LI-IMX219-MIPI-FF-NANO-H90

LI-IMX219-MIPI-FF-NANO-H136

LI-IMX219-MIPI-FF-NANO-H145

Rev 1.5

Leopard Imaging Inc.

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Version History

Version	Description	Release Date
1.0	First release.	16. Mar. 2019
1.1	Added H90 and H135 version	22. Mar. 2019
1.2	Updated the dimensions of H90 and H135 modules.	14. Apr. 2019
1.3	Removed H135 module.	26. Apr. 2019
1.4	Added H136 module.	18. Oct. 2019
1.5	Deleted info quoted from sensor spec.	25. May. 2022



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Key Information

Module Part#		LI-IMX219-MIPI-FF-NANO
Compatible Platform		NVIDIA® Jetson Nano™ Developer Kit
Module Size	H90	150.0 (L) x 25.0 (W) x 15.27 (H) mm
	H136	150.0 (L) x 25.0 (W) x 15.3 (H) mm
	H145	150.0 (L) x 25.0 (W) x 14.1 (H) mm
Sensor Type		Sony IMX219 8.08MP Color sensor
Active Pixels		3280 (H) x 2464 (V)
Image Size		Diagonal 4.60 mm (Type 1/4.0)
F/No.		2.6 (H90) / 2.0 (H136) / 2.5 (H145)
Focal Length		2.3 mm (H90) / 1.58 mm (H136) / 1.55 mm (H145)
FOV		90°(H) / 136°(H) / 145°(H)
TV Distortion		< -10% (H90) / < -15%(H136) / < -15% (H145)
Focusing Range		30 cm ~ Infinity
Pixel size		1.12 x 1.12 μm
IR Cutter Filter		Yes
Temperature Range	Operating	-20°C to +60°C
	Storage	-30°C to +80°C
Data Output Interface		CSI-2 MIPI 2-lane
Maximum Image Transfer Rate		3280 x 2464 @ 21 fps
Mating Connector	Part#	1-1734248-5
	Number of Positions	15
	Pitch	0.039" (1.00mm)

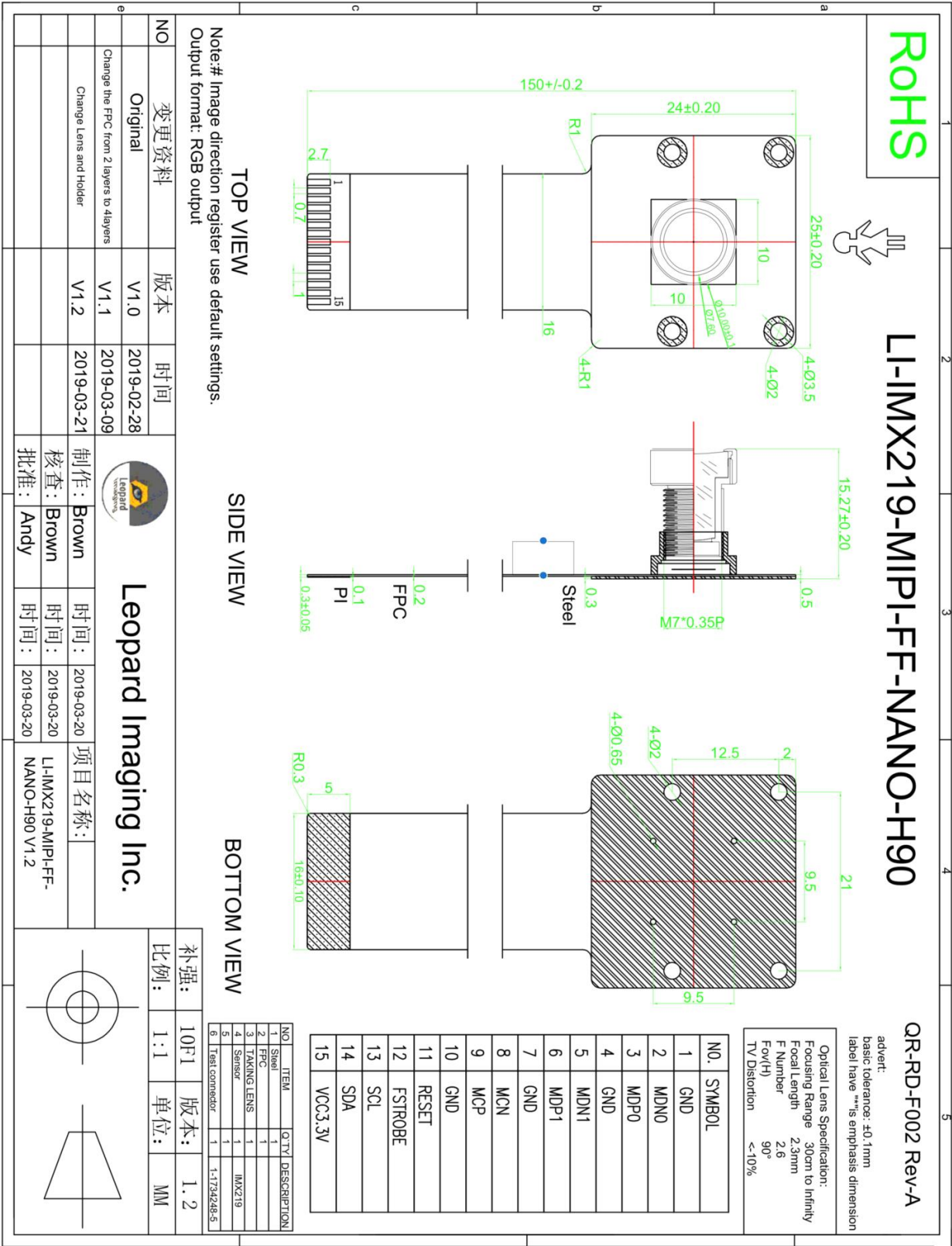


Pin Assignment

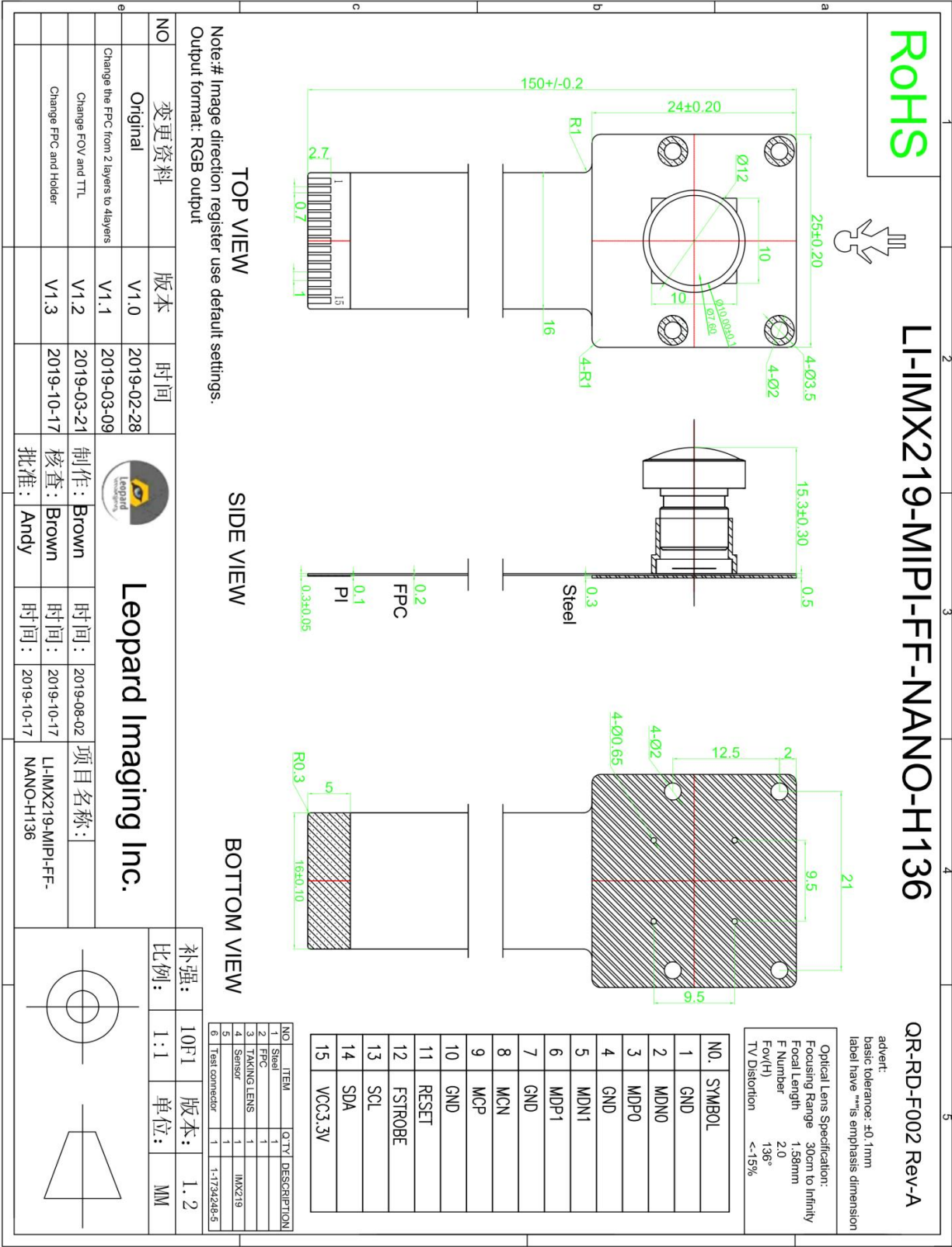
No.	Name	Pin Type	Description
1	GND	Ground	
2	MDN0	O	MIPI data positive output
3	MDP0	O	MIPI data negative output
4	GND	Ground	
5	MDN1	O	MIPI data positive output
6	MDP1	O	MIPI data negative output
7	GND	Ground	
8	MCN	O	MIPI clock negative output
9	MCP	O	MIPI clock positive output
10	GND	Ground	
11	RESET	I	Reset
12	FSTROBE	O	Strobe output
13	SCL	I	
14	SDA	I/O	
15	VCC3.3V	Power	

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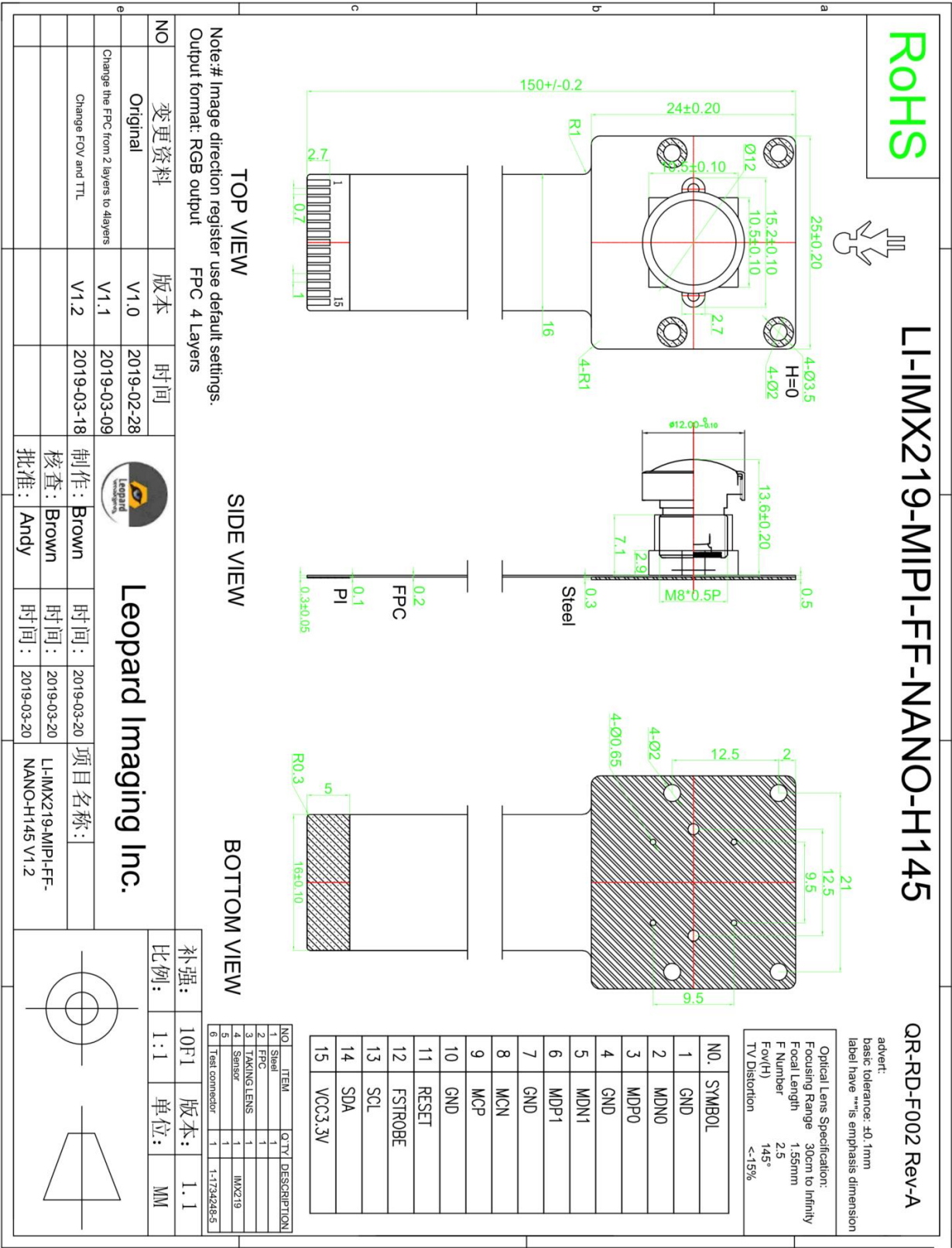
Mechanical Diagram



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NO.	ITEM	QTY	DESCRIPTION
1	Steel	1	
2	FPC	1	
3	TRAGING LENS	1	
4	Sensor	1	IMX219
5		1	
6	Test connector	1	1-1734248-5

变更资料

NO	版本	时间
Original	V1.0	2019-02-28
Change the FPC from 2 layers to 4layers	V1.1	2019-03-09
Change FOV and TTL	V1.2	2019-03-18

制作: Brown

时间: 2019-03-20

项目名称: LI-IMX219-MIPI-FF-NANO-H145 V1.2

核查: Brown

时间: 2019-03-20

批准: Andy

时间: 2019-03-20

补强: 10F1

版本: 1.1

比例: 1:1

单位: MM

