



LEOPARD IMAGING INC

Rev. 1.1

LI-OV580-OV7251ST

Data Sheet

Key Features

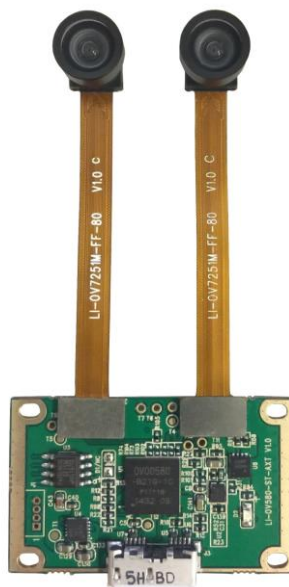
- USB 3.0 Super Speed support
- 8-bit RAW output without compression
- UVC compliance
- USB 2.0 backwards compatible
- Dual Camera
- Adjustable two cameras distance
- Provide customization services
- USB +5VDC powered device
- CMOS VGA image sensor
- 3 Parts: 1 OV580 and 2 OV7251
- Part#: **LI-OV580-OV7251ST**

Interface

- Part#: AXT524124 (on OV580)
- Number of Positions: 24
- Pitch: 0.016" (0.40mm)
- Number of Rows: 2

SDK Supported

- Camera Tool Source Code in C#
- Capture & Display



OV7251 module Spec

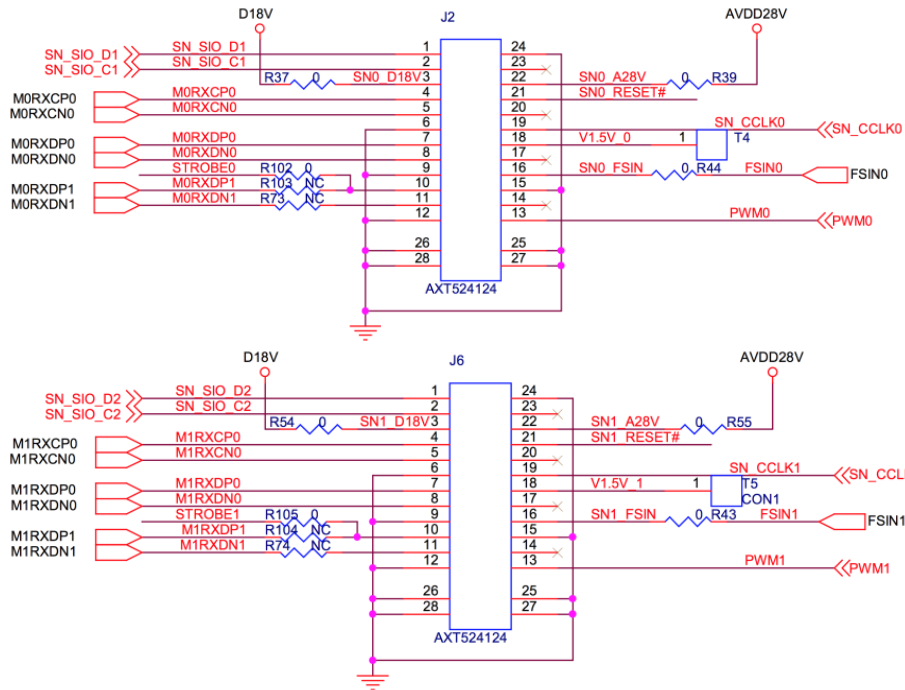
- Part#: LI-OV7251M-FF-80
- Resolution: 640 x 480
- Sensor size: 1/7.5"
- Mono sensor
- Global shutter
- MIPI Interface
- Connector: AXT624124
- Focusing range: 60cm ~ Infinity
- Focal Length: 1.3 mm
- Aperture, F/#: 2.8
- FOV (H): 80 °
- TV Distortion: < -25%



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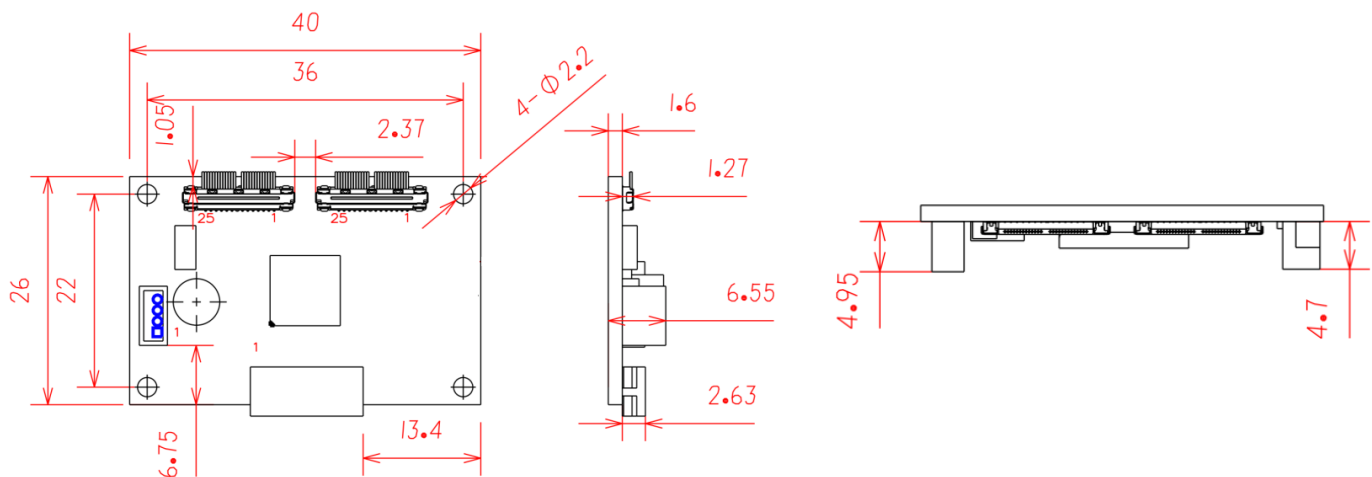
Pin Assignment (OV580)



Pin Assignment (OV7251)

No.	Name	No.	Name	No.	Name	No.	Name
1	SDA	7	MDP	13	PWM	19	XCLK
2	SCL	8	MDN	14	NC	20	NC
3	DOVDD1.8V	9	GND	15	GND	21	RESET
4	MCP	10	STROBE	16	FSIN	22	AVDD2.8V
5	MCN	11	ULPM	17	NC	23	NC
6	GND	12	GND	18	DVDD1.5V	24	GND

Dimensions (OV580)



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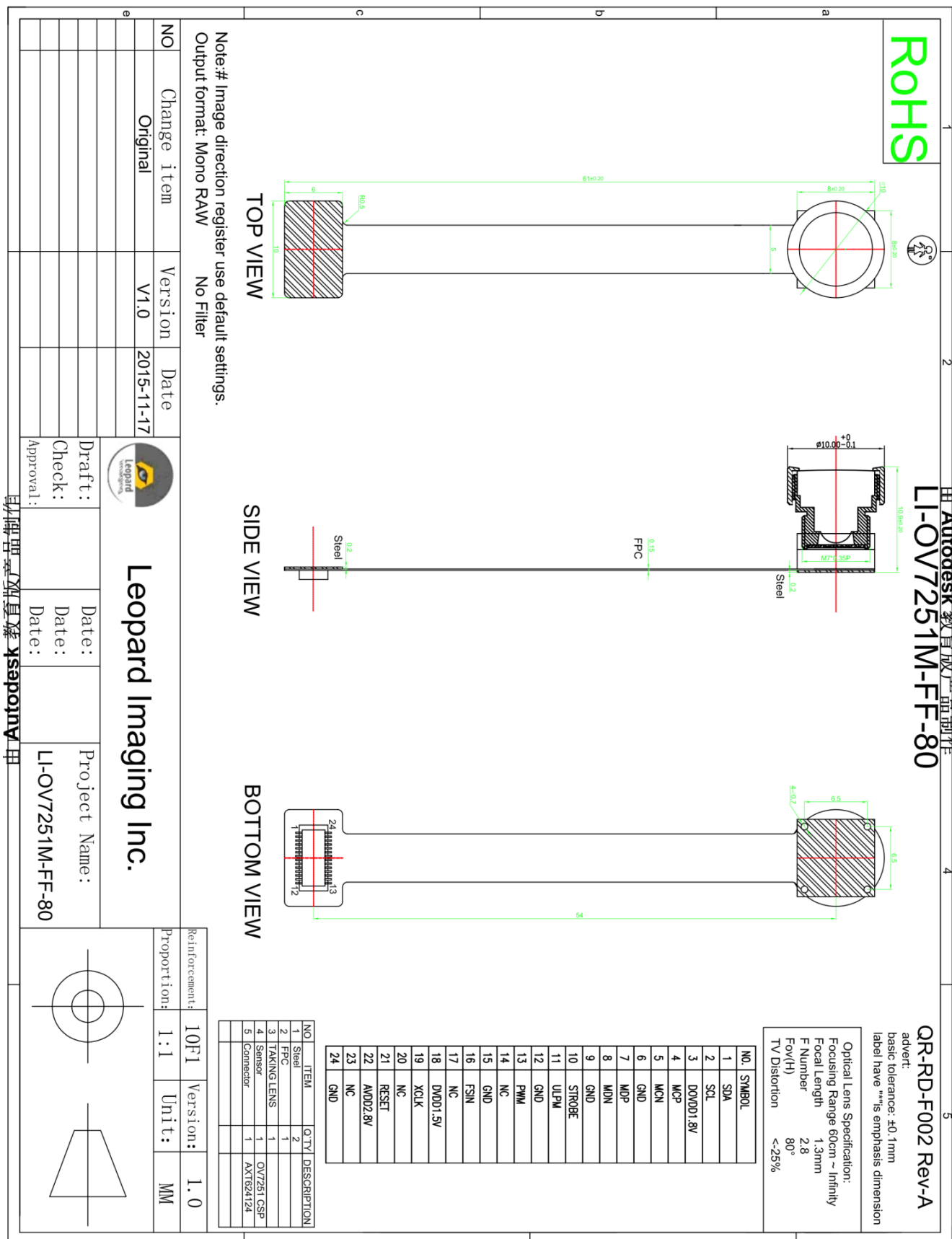
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General Behavior		
Video Resolution @ Frame rate		640 x 480 @ 100 fps 640 x 480 @ 60 fps
Sensitivity		7190 mV/ (uW.cm-2 .sec) @ 850nm 2800 mV/ Lux-sec @ 530nm
Interface (Optical)		
IR cut filter		No
Sensor specification		OmniVision mono VGA image sensor OV7251
Shutter		Global
Format		1/7.5”
Resolution		H:640, V:480
Pixel size		H: 3 um, V: 3 um
Interface (Electrical)		
Interface		USB 3.0
Supply voltage		USB 3.0 +5 VDC power source
Current consumption		Approx. 247mA at 5 VDC
Interface (Mechanical)		
Dimensions	OV580	L: 40 mm, W: 26 mm, H: 6.55 mm
	OV7251	L: 61 mm, W: 8 mm, H: 10.9 mm
Weight (with lens)		6 g
Environmental		
Max. temperature (operation)		-30 °C ~ 70 °C (-22 °F~ 158 °F)
Max. temperature (storage)		0 °C ~ 50 °C (32 °F~ 122 °F)
Max. humidity (operation)		20 % ~ 80 %, relative, non-condensing
Max. humidity (storage)		20 % ~ 80 %, relative, non-condensing



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