AISTAR OV7251 MIPI Module Spec

General Information:
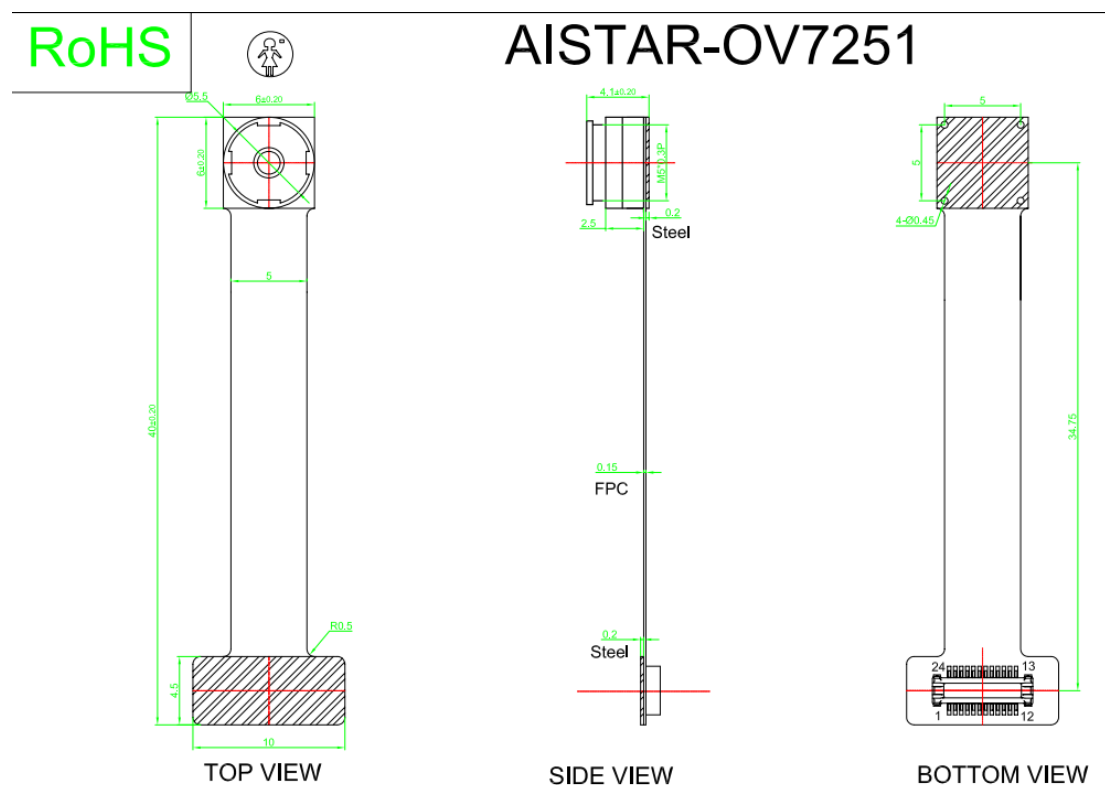
Module Part#		AISTAR-OV7251
Sensor Type		OV7251
Module Size		40.00x6.0x4.1(L*W*H,mm)
Full resolution		640x480
Power Supply	Core	1.5V(optional)
	Analog	2.8V
	I/O	1.8V
Lens		1/7.5″
Focal Length		2.66mm
F#		2.8
Field of view(FOV,diangonal)		39°
Focus range		30cm-infinity
TV Distortion		< 1%
Pixel size		3 um* 3 um
Sensitivity		7190 Mv/(uW.cm.sec)@ 850nm;2800 mV/ Lux-sec @ 530nm
IR Cutter		No filter
Working temperature		-30℃ to +70℃
Working Mode		640*480@100fps
Output Format		8/10-bit RAW
Dynamic Range		69.6 db@ 8x gain
Max S/N ratio		39 dB
Interface Type		MIPI
Scan mode		Progressive
Connector		AXK824145

Module Pin assignment:

No.	Symbol	Pin Type	Description
1	SDA	I/O	SCCB data
2	SCL	I/O	SCCB data
3	DOVDD 1.8V	Power	Power for I/O circuit
4	MCP	Output	MIPI clock+
5	MCN	Output	MIPI clock-
6	GND	Ground	Ground
7	MDP	Output	MIPI data+
8	MDN	Output	MIPI data-
9	GND	Ground	Ground
10	Strobe	I/O	Strobe output
11	ULPM	Output	ULPM open-drain output

12	GND	Ground	Ground
13	PWM	I/O	PWM output
14	NC	NC	NC
15	GND	Ground	Ground
16	FSIN	I/O	Frame sync input
17	NC	NC	NC
18	DVDD1.5V	Power	Digital core power
19	XCLK	Input	System input clock
20	NC	NC	NC
21	RESET	Input	Sensor reset(active low with internal pull up resistor
22	AVDD2.8V	Power	Analog power
23	NC	NC	NC
24	GND	Ground	Ground

Mechanical:

Note:

For module customization service,please contact support@aistarvision.com for more information.

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96Boards Camera

Document History:

Revision	Date	Notes	Who
Rev1.0	03/11/2017	Initial draft	Kevin.W