DELTAVISION

AISTAR OV13850 MIPI Module Spec

General Information:

Module Part#		AISTAR-OV13850
Sensor Type		OV13850
Module Size		27.75x8.5x5.7(L*W*H,mm)
Full resolution		4224x3136
Power Supply	Core	1.2V
	Analog	2.8V
	I/O	1.8V/2.8V
Lens		1/3.06"
Focal Length		3.81 mm
F#		2.2
Field of view(FOV,diangonal)		70º
Focus range		10cm-infinity
TV Distortion		< 1.5%
Pixel size		1.12 um* 1.12 um
Sensitivity		TBD
IR Cutter		650nm
Working temperature		-30℃ to +70℃
Working Mode		4224*3136@30fps
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		AXK8L24124

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	MDP0	Output	MIPI data+
8	MDN0	Output	MIPI data-
9	GND	Ground	Ground
10	MDP1	Output	MIPI data+
11	MDN1	Output	MIPI data-
12	GND	Ground	Ground
13	MDP2	Output	MIPI data+
14	MDN2	Output	MIPI data-
15	GND	Ground	Ground
16	MDP3	Output	MIPI data+

17	MDN3	Output	MIPI data-
18	DVDD1.2V	Power	Digital core power
19	XCLK	Input	System input clock
20	PWDN	Input	Power Down
21	RESET	Input	Sensor reset(active low with internal pull up resistor
22	AVDD2.8V	Power	Analog power
23	AF-VCC2.8V	Power	Analog power
24	AF-GND	Ground	Analog ground

Mechanical:
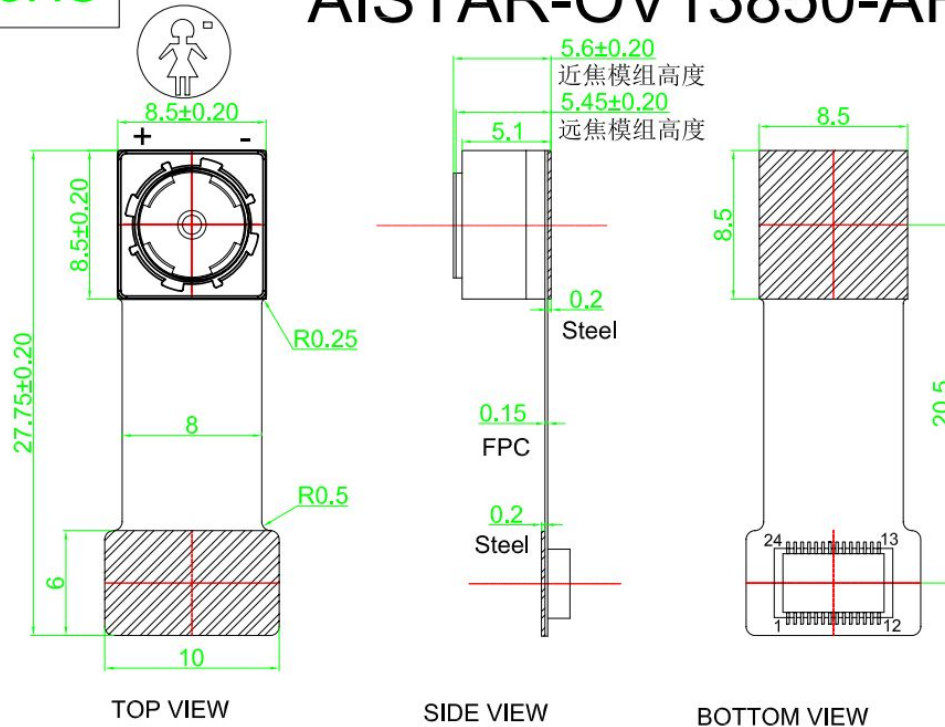
Note:

      For module customization service,please contact support@deltavision.io for more information.

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Document History:

Revision	Date	Notes	Who
Rev1.0	10/11/2017	Initial draft	Kevin.W

	support@		