# Large Area Scan Series

AX7C10MK250E

Features

● Sony CMOS sensor, global shutter, APS-C image size;

● Patented flatness adjustment scheme to prevent partial defocusing;

● Excellent heat dissipation design, precise temperature control and constant temperature maintenance;

● Support Software Trigger/Hardware Trigger/Free Run Model, support trigger via CameraLink acquisition board;

● Support user-defined ROI, horizontal mirror and vertical mirror;

● Support ISP functions including Auto Exposure/Auto Gain/Gamma Correction/LUT etc.;

● Mono cameras support contrast adjustment;

● Support for FFC function to provide more uniform picture quality;

● Support mutil-frame average function, up to 16 frames averaging;

● Support fan speed adaptive function for setting the target temperature of the sensor;

Dimensions (mm)
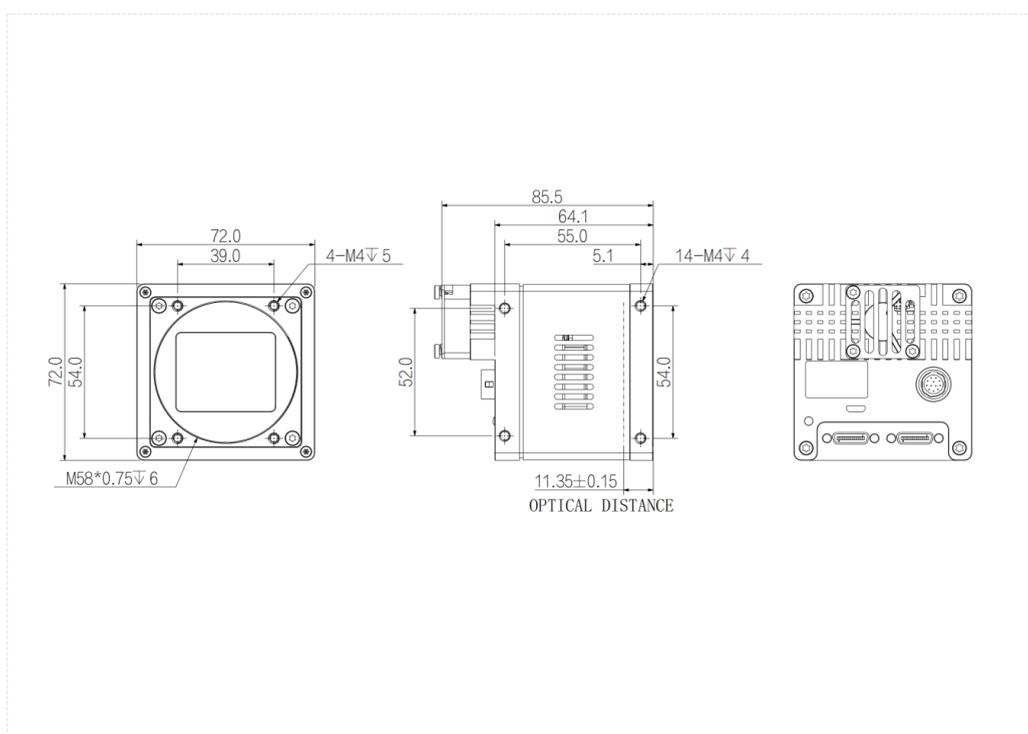
Specification

Model		AX7C10MK250E
Basic	Sensor	IMX342
	Image Sensor	22.3 mm x 16.7 mm CMOS
	Shutter	Global
	Resolution	6240 × 4848
	Frame Rate	24.8 fps
	Bit Depth	10 bit
	Mono/Color	Mono
	Pixel Size	3.45 μm × 3.45 μm
Image	Pixel	31 MP
	S/N Ratio	40 dB
	Dynamic Range	73 dB
	Image Format	Mono8/10/12
	ROI	Support
	X Flip	Support
	Y Flip	Support
	Gain	1 ~ 32
	Gamma	0 ~ 4 , Support LUT
	Exposure Time	3 μs ~ 15 s
	Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode
	SPC	Support
Performance	User Setting	Support two sets of user-defined configurations
Port	Port	CameraLink
	GPIO Interface	3x Opto-isolated input, 3x Opto-isolated output;1x RS232
	Lens Mount	M58 x 0.75
Power	Power Supply	DC 24V power supply via 12 Hirose interface
	Power Consumption	24 V ≈ 16.8 W
Structure	Product Dimensions	72 mm x 72 mm x 64.1 mm (Non including rear case connector)
	Net Weight	500 g
Environment	Storage Temperature	-30℃~+80℃
	Operating Temperature	-30℃~+50℃

Connector Pin-out
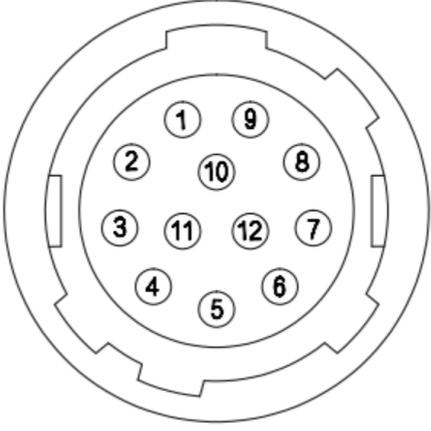
Pin	Signal	Description
1	GND	Power and signal GND
2	Power	Power supply
3	RXD RS232	Serial receive
4	TXD RS232	Serial send
5	Line3	Opto-isolated input
6	Line4	Opto-isolated input
7	Line5	Opto-isolated input
8	OPT_IN_GND	Opto-isolated input GND
9	Line0	Opto-isolated output
10	Line1	Opto-isolated output
11	Line2	Opto-isolated output
12	OPT_OUT_GND	Opto-isolated output GND

Spectrogram