

Contact Image Sensor Heads for narrow-width scanners

LSH2004-AA30A

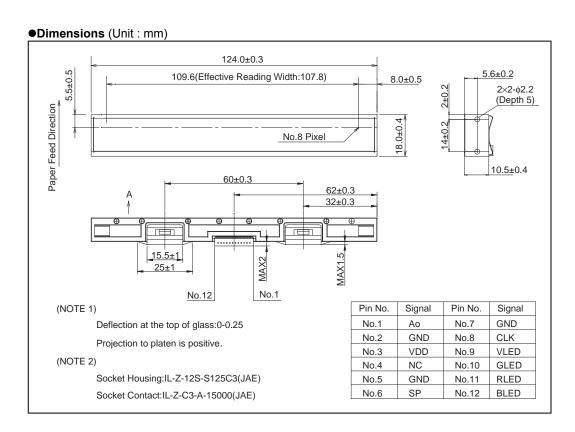
These image sensor heads feature high-speed scanning (1000mm/s) and are compatible with A6 size media. They are center connector type units with no frame protrusion, simplifying assembly.

Applications

Check readers, card scanners, and a variety of other image input devices.

Features

- 1) Signal amplifier integrated into each sensor IC in order to eliminate external noise; compatible with 3.3V interface.
- 2) LED light source mounted on the same substrate as the sensor chip itself, resulting in a more compact, lightweight package.
- 3) Utilizes proprietary prism for improved lighting efficiency.
- 4) Ceramic substrate used, ensuring excellent dimensional and thermal stability.



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Characteristics

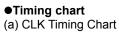
Parameter	Symbol	Тур.	Unit
Effective scanning width	-	107.8	mm
Primary scan dot density	-	200	dpi
Total dot number	-	864	dots
Power supply voltage	V _{DD}	3.3	V
Scanning speed	SLT	0.125x3	ms / line *
Clock frequency	CLK	8	MHz
Maximum dynamic range	VRMax.	0.5	V
Minimum dynamic range	VRMin.	0.25	V
Dark output	Vod	0.8±0.2	V
Operating temperature	-	5 to 45	°C

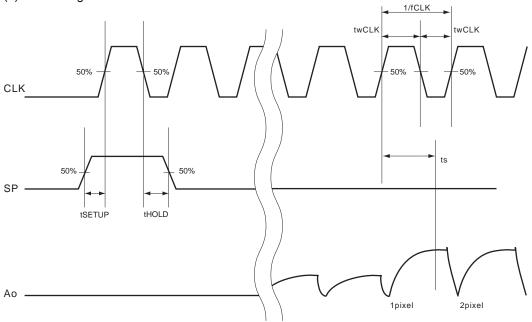
 $[\]ast$ Analog signals are produced output at double rate of clock frequency.

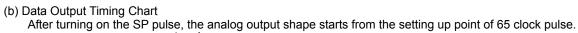
Pin assignments

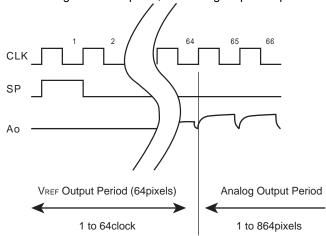
Till assignments					
No.	Circuit	1/0	Functions		
1	Ao	0	Analog Output		
2	GND	I	Ground		
3	V _{DD}	I	Power Supply		
4	NC	_	Non connect		
5	GND	I	Ground		
6	SP	I	Start pulse		
7	GND	I	Ground		
8	CLK	ı	Clock		
9	VLED	ı	LED power supply		
10	GLED	I	LED ground		
11	RLED	I	LED ground		
12	BLED	ı	LED ground		

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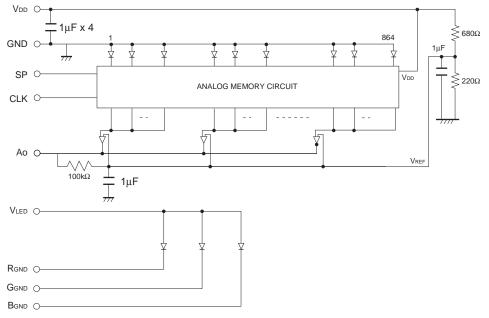




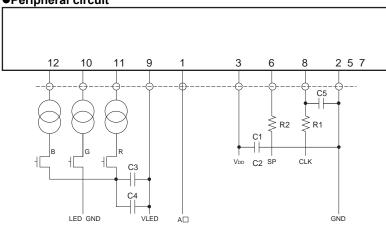
Note) Output blank part cannot be used as the analog output standard level.

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•Inner circuit



●Peripheral circuit



* R1=R2=100 Ω C1=47 μ F C3=100 μ F, C4=0.1 μ F, C5=100 ρ F

* Please adjust the value of resistance to fit your interface circuit.

Notes

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