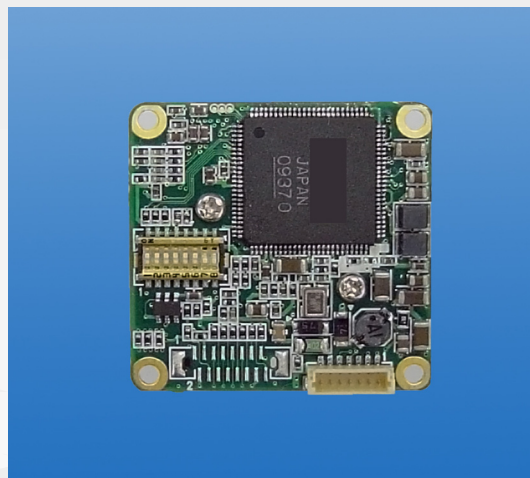


MS-59 1/4 type 320k pixels High-Sensitivity color board camera
 MS-59H 1/4 type 470k pixels High-Sensitivity color board camera



Specifications

■ Outline

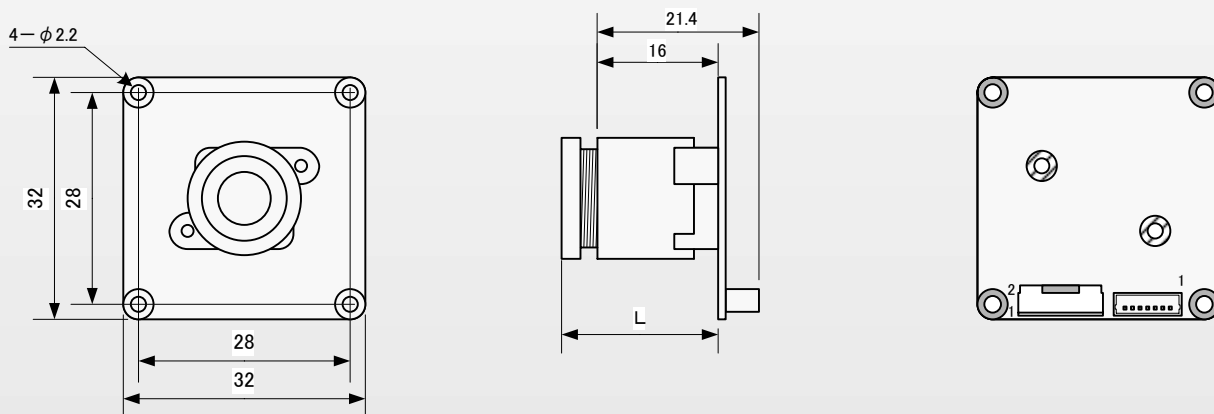
MS-59/MS-59H, 1/4 type CCD adopting color board camera. 32x32mm, about 20g, small type, can be installed in the different machinery. Small type of short focus board lens, it is possible to be selected depends of the needs.

■ Features

- 1/4 type 320k Pixels CCD (MS-59)
470k Pixels CCD (MS-59H)
- TV System : PAL
- Minimum Sensitivity : 0.4 lx (MS-59)
0.6 lx (MS-59H)
- Compact and Lightweight 32x32mm approx 20g
- Video Output : VBS
- YUV Digital Output (Option)
- Mirror Reversing (Option)
- Auto White Balance
- Auto Gain Control
- Backlight Compensation
- Board Camera Lens
- Power source : DC12V

Function Items	Specifications	
Model Name	MS-59	MS-59H
Signal System	PAL	
Image Sensor	1/4 type IT CCD	
Effective picture elements	500(H) × 582(V)	752(H) × 582(V)
Horizontal Resolution	350TV Line	540TV Line
S/N Ratio	48dB	
Minimum illumination	0.4 lx (F1.2)	0.6 lx (F1.2)
Video output	VBS: 1.0V (p-p) / 75Ω	
Digital output	YUV 8bit	
Sync system	Internal	
Lens mount	M12 / Non mount	
Power requirements	DC12V ± 10%	
Current consumption	Approx. 80mA	Approx. 90mA
Dimensions	32(W) × 32(H) mm	
Mass	Approx. 20g	
Operating temperature	-15°C ~ +70°C	
Operating humidity	20~80% (no condensation)	

Mechanical Drawings



Digital Outputs

I/O Connector (04-6214 016 008 00+)		
Pin No.	Signal names	Function
1	+12V	DC+12V IN
2	GND	GND IN
3	VIDEO	VBS OUT
4	VIDEO GND	VBS GND
5	YUV7	YUV7 OUT
6	YUV6	YUV6 OUT
7	YUV5	YUV5 OUT
8	YUV4	YUV4 OUT
9	YUV3	YUV3 OUT
10	YUV2	YUV2 OUT
11	YUV1	YUV1 OUT
12	YUV0	YUV0 OUT
13	HD	HD
14	VD	VD
15	GND	GND
16	RCK	CLOCK OUT

Connector Outputs

IN/OUT connector BM07B-SRSS-TB	
Pin No.	Signal names
1	VIDEO GND
2	VIDEO OUT
3	-
4	DATA I/O (SDA) ※1
5	DATA I/O (SCL) ※1
6	+12V IN
7	GND

SW settings

Sw No.	Signal name	Function
1	SHUTTER3	Shutter setting 3
2	SHUTTER2	Shutter setting 2
3	SHUTTER1	Shutter setting 1
4	SHUTTER0	Shutter setting 0
5	AWB1	AWB setting 1
6	AWB0	AWB setting 0
7	BLC	ON : BLC , OFF : Normal
8	MIR	ON : Mirror , OFF : Normal

AWB setting		
AWB1	AWB0	Function
0	0	Fix 1
0	1	Fix 2
1	0	Fix 3
1	1	Auto

Lens lineup

Standard Lens					
Model name	Focal length	F No.	Horizontal	Vertical	Diagonal
MD15	12mm	2.2	15°	11°	17°
MD23	8mm	2.0	23°	18°	26°
MD33	6mm	1.8	33°	24°	39°
MD45	4.3mm	2.0	45°	34°	58°
MD55	3.6mm	2.0	55°	42°	67°
MD65	3mm	2.0	65°	48°	83°
MD74	2.5mm	2.0	74°	56°	91°
MD91	2.1mm	2.0	91°	67°	111°
MY104	1.9mm	2.0	104°	77°	129°

Accessories

Harness : HN-0715N (150mm)



FFC Cable : FC-16100(100mm)



Shutter speed setting				
SHUTTER3	SHUTTER2	SHUTTER1	SHUTTER0	Shutter speed
OFF	OFF	OFF	OFF	1/60
OFF	OFF	OFF	ON	1/100
OFF	OFF	ON	OFF	1/200
OFF	OFF	ON	ON	1/500
OFF	ON	OFF	OFF	1/1,000
OFF	ON	OFF	ON	1/2,000
OFF	ON	ON	OFF	1/5,000
OFF	ON	ON	ON	1/10,000
ON	OFF	OFF	OFF	1/20,000
ON	OFF	OFF	ON	1/50,000
ON	OFF	ON	OFF	1/100,000
ON	OFF	ON	ON	1/30
ON	ON	OFF	OFF	1/12.5
ON	ON	OFF	ON	1/6.25
ON	ON	ON	OFF	-
ON	ON	ON	ON	Electronic iris

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