

CBM30273AF

1/2.9" Global Shutter CMOS x30 Zoom/AF Camera Module



■ Overview

- 1.6M camera module with SONY global shutter image sensor.
- Equipped with 30x optical zoom lens for 1/2.8" 2M.
- Compact size housing adopted.

■ Feature

- AF camera module for traffic monitoring, equipped with a global shutter sensor.
- Supports auto ICR operation, automatically switching from daytime color images to nighttime near-infrared images
- 30x optical zoom and 32x digital zoom for a total of 960x zoom.
- Equipped with auto iris, auto electronic shutter, auto gain, auto white balance, and auto focus.
- Equipped with various correction functions according to the image scene (DNR, WDR, fog, heat haze, etc.).
- Compatible with LVDS output, allowing easy connection to network modules.
- Supports 3G-SDI/HD-SDI output, enabling long-distance wiring up to 100m without image quality degradation.
- Supports 1080p, 1080i, 720p video formats.
- Flexible support for additional functions.

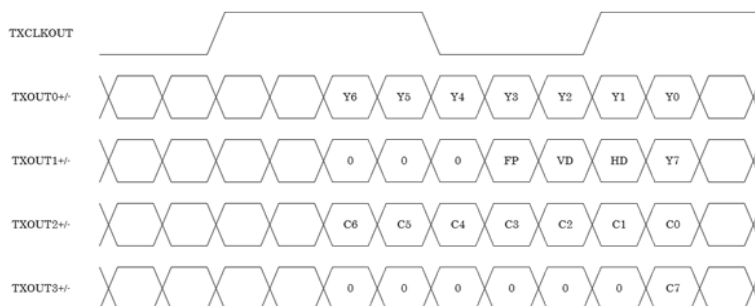
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■ Specifications

Sensor	Image Sensor	1/2.9" Global Shutter CMOS Image Sensor (IMX273LQR-C)	
	Number of pixels	1456(H) x 1098(V), 1.60M Pixels	
	Pixel Size	3.45 μ m(H) x 3.45 μ m(V)	
	Scan Format	1440x1080@30fps, 1440x1080@25fps, 1440x1080@60fps, 1440x1080@50fps (Option 1440x1080@29.97fps, 1440x180@59.94fps)	
Lens	F No.	Wide: F1.6, Tele: F4.4	
	Focal Length	Wide (x1) :4.5mm, Tele (x30) : 135mm	
	Zoom	Optical Zoom 1~30times : Stepping Moter Digital Zoom 1~32 times : (Optical + Digital Zoom Max : 960 times)	
	Focus	Stepping motor system auto focus Focus range : Wide 1.5m~∞, Tele 1.5m~∞	
	Optical Arange of view	Wide (x1) : D/60.0° , H/50.7° , V/39.1° Tele (x30) : D/2.5° , H/2.0° , V/1.4°	
	Optical Filter	1: IR Cut Filter (for Day Color) 2: Through Glass	
Video	Video Format	3G-SDI : 1080p60, 1080p50 (Option 1080p59.94) HD-SDI : 1080p30, 1080p25, 1080i60, 1080i50, 720p60, 720p50, 720p30, 720p25 (Option 1080p29.97, 1080i59.94, 720p59.94, 720p29.97) LVDS : 1080p30, 1080p25, 1080i60, 1080i50, 720p60, 720p50, 720p30, 720p25 (Option 1080p29.97, 1080i59.94, 720p59.94, 720p29.97) VBS : NTSC, PAL	
		Minimum Illumination	Color 0.02 lx, B/W 0.01 lx, F1.6, 25IRE, AGC 42dB
		Signal to Noise Ratio	STD 52dB (Minimum 48dB)
		Setting	OSD, UART(2ch)
Function	Auto Iris	Yes	
	Auto Exposure	Yes	
	Auto Focus	Yes	
	White Balance	AUTO / ATW / AWB (One Push)	
	Manual Shutter	1/30(25), 1/50, 1/60, 1/100, 1/120, 1/150, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/2000, 1/4000, 1/10000, 1/34000, 1/78000 sec.	
	Sense Up	AGC Max 60dB & Slow Shutter Max 8 sec.	
	Day & Night Mode	Color / B&W / Auto / External	
	Digital Noise Reduction	2D + 3D (Coupled Motion ON/OFF)	
	Backlight Control	Yes	
	Peak / Average Control	Yes	
	Gamma Control	0.45 ~ 1.00 (Auto Setup ON/OFF)	
	Wide Dynamic Range	XDR, D-WDR, V-WDR	
	Eclipse (High Light Clip)	Yes	
	Fog Reduction	Yes	
	Heat Haze Correction	Yes	
	Motion Detection	Yes	
	H/V Mirror, Flip	Yes	
	OSD Language	English, Japanese (Customizable)	
	Title Display	Yes	
	Communication Protocol	Original / Pelco-D / Pelco-P / VISCA	
General	Privacy Mask	Yes (16 Masks)	
	Preset Position	Yes (64 Area)	
	Synchronous Mode	Internal	
	Power Source	DC+12V	
	Consumption Current	450mA (30fps)	
	Operation Temperature	-10°C ~ +50°C	
	Storage Temperature	-30°C ~ +70°C	
	Humidity	80% Max	
	Outside Dimensions	W50mm x H60mm x D95mm	
	Net Weight	230g	

■ LVDS Format



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Pin Assignment

JP1 (USL00-30L-A/KEL)		
1	TXout3+	LVDS TXD3+
2	TXout3-	LVDS TXD3-
3	TXCLKout+	LVDS TXCLK+
4	TXCLKout-	LVDS TXCLK-
5	TXout2+	LVDS TXD2+
6	TXout2-	LVDS TXD2-
7	TXout1+	LVDS TXD1+
8	TXout1-	LVDS TXD1-
9	TXout0+	LVDS TXD0+
10	TXout0-	LVDS TXD0-
11	GND	Ground
12	TXD1	UART TX (5V)
13	RXD1	UART RX (5V)
14	DC12in	12V DC
15	DC12in	12V DC
16	DC12in	12V DC
17	DC12in	12V DC
18	DC12in	12V DC
19	GND	Ground
20	GND	Ground
21	GND	Ground
22	GND	Ground
23	GND	Ground
24	GND	Ground
25	-	Reserved
26	-	Reserved
27	VBS	Analog Video
28	-	Reserved
29	-	Reserved
30	RS485EN1	RS485 Enable (5V)

JP2 (53261-0671/MOLEX)		
1	DC12in	12V DC
2	GND	Power Ground
3	VBS	Analog Video
4	GND	Video Ground
5	IReXt	ICR Control
6	VDO	Sensor VD Pulse

JP3 (SM06B-SRSS-TB/JST)		
1	ENTER	OSD Enter
2	RIGHT	OSD Right/Tele
3	LEFT	OSD Left/Wide
4	UP	OSD Up/Near
5	DOWN	OSD Down/Far
6	GND	Ground

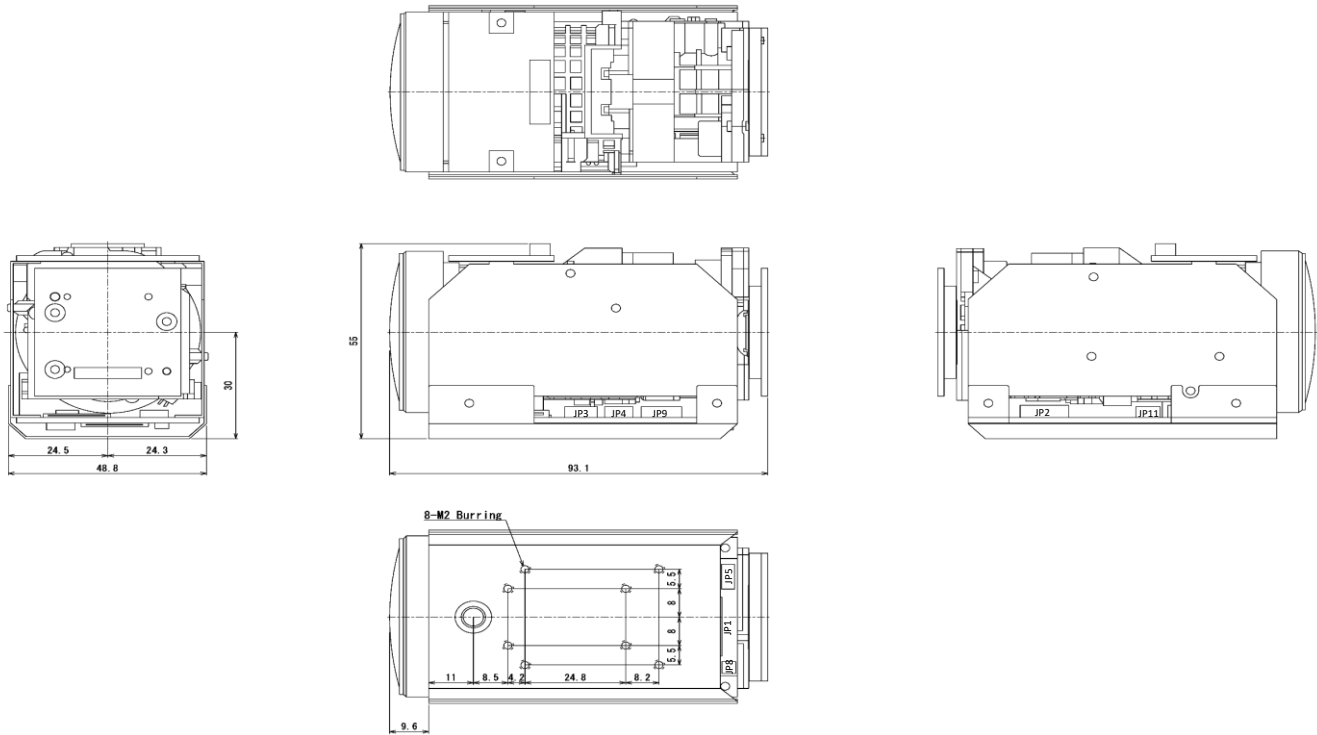
JP4 (SM05B-SRSS-TB/JST)		
1	GND	Ground
2	TXD2	UART TX (3.3V)
3	RXD2	UART RX (3.3V)
4	DC33out	3.3V DC
5	RS485EN2	RS485 Enable (3.3V)

JP8 (AYU1-1P-02676-120/JST)		
1	TX-SDI	SDI TX
2	GND	Video Ground

JP11 (SM04B-SRSS-TB/JST)		
1	DC33out	3.3V DC
2	ARin	Audio R
3	ALin	Audio L
4	AGND	Ground

(Option)

Dimensions



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