



FULL HD COLOR CAMERA MODULE KSM203L-F

- 1/2.8" 2.38 Million Pixels Sony IMX236 Exmor CMOS Sensor
- Full 1920x1080p/60 and 59.94 High Definition
- Optical 20x Zoom Lens Developed By Japanese Company
- Excellent Low Light Performance (0.04 lx, 1/30 sec, 50% ICR on)
- Least Output Delay By Ultra High Speed Image Processing
- Wide Dynamic Range without Loss of Frame Rate
- Back Light & Spot Light Compensation, DEFOG Function



Available Now

Best for IR Camera

KSM203 is equipped with the latest Sony IMX236 Exmor CMOS sensor. It has accomplished sensitivity improvement of 5dB than IMX136 in near infrared region.

Typical Use

Full HD, Day & Night and Optical 20x Zoom

 D&Night Monitoring	 Night Time Monitoring with IR Light	 License Plate Monitoring
 Flood Tsunami Monitoring	 Road & Railway Monitoring	 Airport Harbor Monitoring

Pictures by KSM203

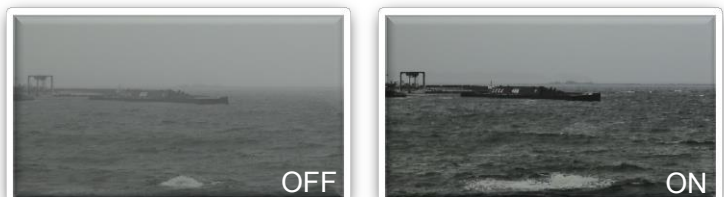
With IR Auxiliary Light



Back Light Compensation + WDR



Foggy Weather (DEFOG)



KSM203 L-F Specifications & Features

Specifications and features are subject to change

Camera Specifications		Comment
Image Device (Effective Pixels)	Sony 1/2.8 type Exmor CMOS sensor (Approx. 2.38 million)	KSM203L-F uses the latest Sony IMX236 CMOS Sensor. It has about 5dB better sensitivity than IMX136 in a near infrared region.
Out Put Pixels (HxV)	1920x1080, 1280x720	
Video Out Signal (HD)	1080p/60, 1080p/50, 1080p/30, 1080p/25, 1080i/60, 1080i/50, 720p/60, 720p/50, 720p/30, 720p/25	Realize 60 frame/ sec with Full 1920x1080 HD resolution 59.94/29.97 fps option is available
Min. Illumination	0.43 lx (1/30 sec) 0.04 lx (1/30sec, ICR On) (50%)	The brightness under the half moonlight is around 0.04 lx. The top-notch low light performance.
Lens	20x Optical f = 4.7mm~94.0mm F1.6 ~F3.5	
Zoom Movement Time	Wide~Tele 2.6 sec (Focus tracking on)	
Zoom Mode	Std, Speed, Variable Speed, Direct Position	
Focus System	Auto Focus (Normal, Interval, Zoon, Trigger) Manual (Std., Variable, Direct) One Push Trigger/ Infinity / Near Limit Setting	
Focus Movement Time	Wide~Tele 1.3 sec	
Focus Weighting	Yes	Focus Weighting puts a focus priority area on the image and keep focusing on the target.
Angular Field of View (1080)	55.4° (Wide)~2.9° (Tele)	
Angular Field of View (720)	37.6° (Wide)~1.95° (Tele)	
Min. Object Distance	10mm~100mm (Wide~Tele)	
Camera Features		
Shutter Speed	1/1~1/10,000 sec 22 Steps	
Gain	Auto/Manual/Max Gain Limit 0dB~42dB 2dB/Step 22 Steps	
Exposure Compensation	-12dB~+12dB 2dB/Step 13 Steps	
Back Light Compensation	On/Off	
Spot Light Compensation	Yes	Correct strong spot light. Example: It reduces halation of the target that comes closer to IR night light.
DEFOG	Yes	The DEFOG function individualizes an outline and the black of the image and makes an object in fog or haze clearer.
Aperture Enhancement	16 Steps	
Gamma	Normal/ Straight / other two modes	
White Balance	Auto (3 modes) /ATW/ One Push WB/ One Push Trigger	
AE	Auto/ Manual/ Shutter Priority/ Iris Priority/ Bright/ Spot Exposure Auto Slow Shutter (On/Off)	
Auto ICR	On/ Off/ Threshold Setting	
WDR	On/Off	WDR corrects a large intensity difference. From dark to light parts in the picture can be recognized by WDR. KSM203L-F does not drop the frame rate even with WDR. By WDR, KSM203L-F expands about double of DR.
Noise Reduction	Off, 1~5, 6 Steps	
Privacy Zone Masking	Yes	PTZ compliance
AE Response	1 sec~ 6 sec	Make AE response time slower, even if the camera catches a high-intensity subject (e.g., the headlights) for a moment, it still can distinguish the portions of the image. surrounding the headlights.
Picture effect	Negative/ B&W	
Flip & Miller Image	Upside down/ Horizontal reverse/ Flip & Miller	
Slow Shutter	Auto/ Manual	
Temperature Read	Yes	
Title Display	20 Characters/ line Max 12 Lines	For OSD menu
Camera Mode Display	English	
Video Out/ Interface		
Digital/ Analog	Digital Only	
Video Out (HD)	Digital: Y/ Cb/ Cr 4:2:2 (LVDS)	
Video S/N	50dB and over	
Camera control Interface	VISCA Protocol (RS232)	
Hardware		
Operating Voltage	6.0V~12V DC	Absolute Max. Voltage 5.5V~15.0V DC
Power Consumption	3W (motor in active 3.5W)	
Storage Temperature/ Humidity	-20°C~+60°C / 20%~90%	
Operating Temperature/ Humidity	-5°C~+60°C / 20%~80%	
WxHxD mm	50.0 x 60.0 x 88.0	
Weight	210g	Light weight module helps the maneuverability of PTZ camera and reduce its long-term loads.

VISCA is trade mark of Sony



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