

KSM201L-F

- Full 1920x1080P/60 High Definition
- Optical 20x Zoom Lens Developed By Japanese Company
- 1/2.8" 3.27 Million Pixels Sony Exmor CMOS Sensor
- The Top-Notch Low Light Performance (0.04 lx, 1/30 sec, ICR On)
- Least Out Put Delay By Ultra High Speed Image Processing
- Wide Dynamic Range without Loss of Frame Rate
- Back Light & Spot Light Compensation, DEFOG Function
- Privacy Zone Masking
- Light Weight 210g Reduces Long-Term Loads of PTZ Camera

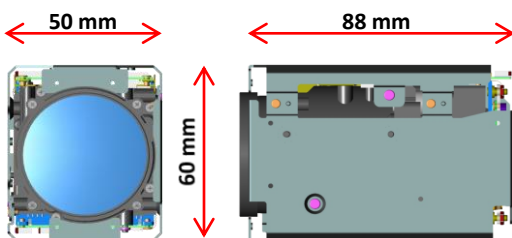


Main Specification

Image Device:	1/2.8" Type CMOS Sensor (Approx. 3.27 Million)
Lens:	20x Optical Inner Focus Lens f=4.7mm (wide)~94.0mm (tele) F1.6~F3.5
Video Out Signal:	1080p/60, 1080p/50, 1080p/30, 1080p/25, 1080i/60, 1080i/50, 720p/60, 720p/50, 720p/30, 720p/25, 576p/50 (4:3 16:9), 480p/59.94 (4:3 16:9)
Video Out:	Digital Y/Cb/Cr 4:2:2 (LVDS)
Camera Control:	VISCA Protocol *
Min. Illumination:	0.43lx (1/30 sec, 50% Intensity, Normal) 0.04lx (1/30 sec, 50% intensity, ICR On)
Power Consumption:	3.0W (Motor Inactive: 3.5W Max)
W x H x D:	50.0mm x 60.0mm x 88.0mm
Weight:	210g

Typical Use

IP Camera, HD-CCTV Camera (HD-SDI Standard), Security, TV Conference, Medical, Care, Beauty, Inspection Camera etc.



* VISCA is trade mark of Sony corporation

KSM201L-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. 3.27million)	KSM201L-F uses RGB and White array CMOS Image Sensor. It has about two times better minimum illumination performance than the same type of Bayer array CMOS sensors .
Out Put Pixels (HxV)	1920x1080, 1280x720, NTSC (720x480), PAL (720x576)	
Video Out Signal (HD)	1080p/60, 1080p/50, 1080p/30, 1080p/25, 1080i/60, 1080i/50, 720p/60, 720p/50, 720p/30, 720p/25, 576p/50 (4:3 16:9), 480p/59.94 (4:3 16:9)	Realize 60 frame/ sec with Full 1920x1080 HD resolution
Min. Illumination (50%)	0.43 lx (1/30 sec) 0.04 lx (1/30sec, ICR On)	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 a target that comes closer to IR night light.
DEFOG	Yes	The DEFOG function individualizes an outline and the black parts of the image. It 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. KSM201L-F does not drop the frame rate even with WDR.
Noise Reduction	Off, 1~5 6 Steps	
Privacy Zone Masking	Yes	
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	
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 (CMOS 5V)	
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.



KSM201L (No out side case version)



HD-SDI out put board

- Made in Japan
- Customization of out side case is available
- Based on KSM201L or L-F, Camera module OEM, ODM, customization are available
- Please ask about HD-SDI out put board



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