

FULL HD COLOR CAMERA MODULE

HY-301

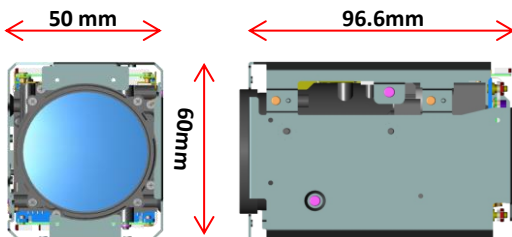
- Full High Definition 1920x1080/60P
- Optical 30x Zoom Lens
- 1/2.8" 2.13 Million Pixels Sony Exmor CMOS Sensor
- The Top-Notch Low Light Performance (0.0002lx, F1.5, 50IRE)
- Least Out Put Delay By Ultra High Speed Image Processing
- Wide Dynamic Range 120dB
- Back Light & Spot Light Compensation, DEFOG Function

Main Specification

Image Device:	1/2.8" Type CMOS Sensor (Approx. 2.13Million)
Lens:	30x Optical Inner Focus Lens f=4.5mm (wide)~135 mm (tele), F1.6~F4.4
Video Out Signal:	1080p/60, 1080p/50, 1080p/30, 1080p/25, 720p/60, 720p/50
Video Out:	Digital Y/Cb/Cr 4:2:2 (LVDS)
Camera Control:	VISCA Protocol
Min. Illumination:	0.002lux(F1.5, 50IRE, Color) 0.0002lux(F1.5, 50IRE, Black&White)
Power Consumption:	4.08W
W x H x D:	50.0mm x 60.0mm x 96.6mm
Weight:	270g

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

HY-301 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. 2.13million)	HY-301 uses Exmor CMOS Image Sensor
Output Pixels (HxV)	1920x1080, 1280x720	
Video Out Signal (HD)	1080p/60,1080p/50,1080p/30,1080p/25, 720p/50,720p/60	Realize 60 frame/ sec with Full 1920x1080 HD resolution
Min. Illumination	Color:0.002lux(F1.5,IRE50) Black&White:0.0002lux(F1.5,IRE50)	The brightness under the half moonlight is around 0.0002 lx. The top notch low light performance.
Lens	30x Optical f = 6.7mm~134.0mm F1.6~F4.4	
Zoom Movement Time	Wide~Tele 4.2 sec (Focus tracking on)	
Zoom Mode	Std Speed, Variable Speed, Direct Position	
Focus System	Auto Focus (Normal,Trigger) Manual (Std.,Variable, Direct) One Push Trigger/ Near Limit Setting	
Focus Movement Time	Wide~Tele 1.3 sec	
Field of View angle	59.8° (Wide)~2.34° (Tele)	
Min. Object Distance	10cm ~1000cm (Wide~Tele)	
Camera Features		
Shutter Speed	1/6~1/8000 sec, 22step	
Gain	Auto/Manual/Max Gain Limit 0dB ~36dB	
Exposure Compensation	0~14dB, 15step	
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	0 ~ 5	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	
White Balance	Auto/Manual	
AE	Auto/ Manual/ Shutter Priority/ Iris Priority/ indoor 50/60Hz Gain Priority,custom	
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 recognised by WDR, the value of the WDR is 120dB
Noise Reduction	2DNR 256 Level , 3DNR 256 Level	
Flip & Miller Image	Flip&Reverse	
Slow Sutter	Auto/ Manual	
Temperature Read	Yes	
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	
Hardware		
Operating Voltage	9.0V~15V DC	Absolute Max. Voltage 9V ~ 15.0V DC
Power Consumption	4.08W	
Operating Temperature/ Humidity	-10°C~+60°C / 20%~80%	
WxHxD mm	50.0 x 60.0 x 96.6	
Weight	270g	