S290H16XF

2MP WDR H.265+ Smart Single Module
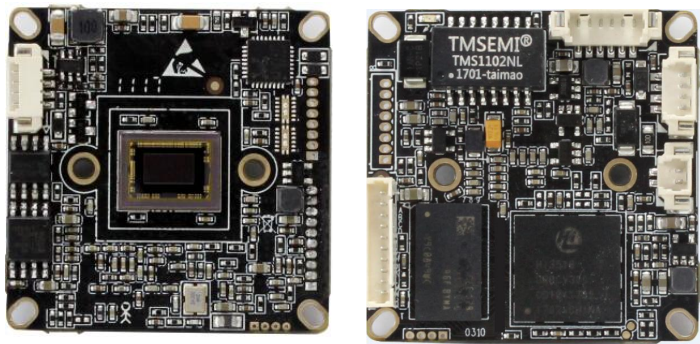
Technical parameters ：

Model	S290H16XF
Camera Module	
Image Sensor	1/2.8 SONY 290 CMOS Sensor
DSP	Hi3516CV300
Effect Pixel	1920(H)x1080(V)
Scan Mode	Line by line Scan
Electronic shutter	1/25s~1/10000s;Automatic Adjustment
Min Illumination	Color 0.001Lux@F1.2
S/N Ratio	≥50dB(AGC OFF)
Day and night switch	Photo Detect / Video Detect / Time Detect
WDR	＞120dB；
Digital Noise Reduction	3DNR
ROI region	Support up to 4 ROI region
Video Parameters	
Video compression	H.265+ ； H.265 Main Profile ; H.264 Baseline，Main Profile，High Profile
Video resolution — Main stream	1920*1080/1280*720
Video resolution — Sub stream	D1(704×576)/VGA(640*480)/640*352/QVGA(320×240)
Video Frame	1-25(30)fps
Video Bit rate	32KB ~16Mbps,
Image settings	Supports Brightness, Contrast, Saturation, Sharpness, White Balance; AWB, AGC, AE (Automatic Exposure Control); Supports privacy area occlusion; OSD overlay; Image rotation: Normal 90 ° / 270 °. Automatic, manual or automatic color to black and other switching methods
Smart functions	
Smart Coding	Support low code rate, low latency, ROI region of interest coding, support 4 ROI area
Smart Detect	Support Block Detection、Defocus Detection、Brightness Detection、Color Detection、Sound Detection、Remnants Detection、Motion Detection、Virtual Cordon、Regional Invasion

Smart Control	Support intelligent control alarm on, alarm off, fault clearing, intelligent noise reduction
Peripheral Interface	
Audio / Talkback input	1 CH audio MIC input / linear input
Audio Output	1 CH audio output
Analog Video Output	1 CH CVBS Analog video output
IO Function Interface	1 CH reset
USB Interface	1 USB interface, support TF card storage expansion (maximum 128G)
Alarm I/O	1 alarm input GPO interface / 1 alarm output GPO interface
Network Parameters	
Network Interface	10M / 100M adaptive Ethernet port
Network Protocol	IPv4/IPv6,802.1x,HTTPS, HTTP, TCP/IP, UDP, RTP, RTCP, UPNP, RTSP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP
Access Standard	Support the latest ONVIF2.42 / GB28181 / SDK
Number of Client Visits	Support 8 users login at the same time
APP	iPhone、iPad、Android
General Parameters	
Power Supply	DC 12V
Power consumption	2W(MAX)
Size	38(L) * 38(W) *10(H)mm(Without Lens)
IR-CUT Pitch Of Holes	20mm
Weight	0.06Kg

Interface Definition：

Network Interface ：

1.RJ45_1(TX+)

2.RJ45_2(TX-)

3.RJ45_3(RX+)

4.RJ45-6(RX-)

5.Link Lamp

6.Status Lamp

Power Interface：

4.Power Ground

3.Video Loop Out

2.Video Ground

1.DC12V

IR-CUT interface：

2.ICR12V+

1.ICR12V-

Functional Interface：

10.Alarm Input

9.Alarm Output Control GPO(3.3V Level Signal)

8.DC5V

7.USB_DM

6.USB_DP

5.GND

4.Reset

3.Audio Output

2.Audio Ground

1.Audio Input

IR Light Board Interface：

1.DC12V Output

2.Ground

3.Light board control signal Input(0.8-12V)

4.Constant Current IC