

# SZ-R10



1/2.8" Sony CMOS Image sensor(Rolling shutter)  
1920 × 1080  
60/50 fps(TBA), 30/25 fps  
Color: 0.03 Lux @ (F1.7, AGC ON), BW: 0Lux (IR LED)  
Optical 10x Digital 10x  
256 zoom/focus presets(TBA)  
H.265 / H.264 / JPEG  
HTTP RESTful API, Onvif

## System

Product IP

## Image Sensor

**Sensor** 1/2.8" Sony CMOS Image sensor(Rolling shutter)

**Total pixels** 2,014(H) x 1,196(V) = 2.4M Pixels

**Effective pixels** 1,965(H) x 1,113(V) = 2.18M Pixels

**Resolution** 1920 × 1080

**Frame Rate** 60/50 fps(TBA), 30/25 fps

**Min. illumination** Color: 0.03 Lux @ (F1.7, AGC ON), BW: 0Lux (IR LED)

## Lens

**Zoom Ratio** Optical 10x Digital 10x

**Focal Length** f = 4.8mm ~ 40.8mm

**Aperture ratio** F1.7(wide) ~ F3.1(tele)

**Angle Of View** H : 62°(W) ~ 7.6°(T)  
V : 36.4°(W) ~ 4.4°(T)  
D : 69.2°(W) ~ 8.6°(T)

**Min. Distance** 1m(Wide), 2m(Tele)

**Iris** DC auto iris(TBA)

**IR Cut Filter** on / off

## Function

**Control Mode** Auto / Manual / Zoom Trigger / One Push

**Presets** 256 zoom/focus presets(TBA)

**Day & Night** Auto, Day, Night, Ext-in

**D&N Levels** 10 levels (without Ext-in)

**Electronic Shutter Speed** 1/25(30)/1/50(60) ~ 1/5000

**White Balance Modes** Auto, Manual (3 steps or more)

**Exposure Modes** Auto, Shutter Priority, Manual

**Gain control** Auto / Manual

**WDR** Off / On(TBA)

**BLC** Off / On, Area selectable

<b>HLC</b>	Off / On
<b>DNR</b>	2D&3D
<b>Defog</b>	Off / Low / Middle / High
<b>DIS</b>	Off / On(TBA)
<b>Mirror</b>	Off, Vertical Flip, Horizontal Flip, H+V Flip (180degree rotation)
<b>Privacy Mask</b>	Max 8 Zones
<b>Motion detection</b>	32 × 18 cell / AI motion detection(TBA)
<b>Output Format</b>	H.265 / H.264 / JPEG
<b>Bitrate</b>	512~15000 kbps
<b>Streaming</b>	Quadruple ( x4 ) IP Streaming Main Stream : up to 1920 × 1080 Second Stream : up to 1280 × 720 Third Stream : up to 640 × 480(TBA) JPEG : 1920 × 1080
<b>OSD</b>	Title, Date, Resolution
<b>Main UI</b>	Web-based GUI
<b>System Mode</b>	NTSC / PAL

## Recording

<b>Video</b>	TBD
<b>JPEG</b>	TBD

**\*TBD : To be Determined / \*TBA : To be Added**

## AI

<b>Rule Engine / Tracker</b>	TBD
<b>Video analytics</b>	TBD

## Audio

<b>Compression</b>	G.711 ulaw
<b>Sampling rate</b>	8khz
<b>Input &amp; Output</b>	1 Line In / 1 Line Out

## Network

<b>Interface</b>	10BASE-T/100BASE-TX
<b>Protocol</b>	IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, NTP, SMTP, FTP, UPnP, HTTP, HTTPS, SSL/TLS
<b>Security</b>	Password protection, IP address filtering, Https encryption, brute force delay protection
<b>control protocol</b>	HTTP RESTful API, Onvif

## General

<b>External devices</b>	1x Alarm input 1x Alarm output 1x D&N input(Ext-in) 1x PWM output(lighting control) 1x UART
<b>External Stroage</b>	Micro SD
<b>Power Supply</b>	12V
<b>Power consumption</b>	Max. 3.6W
<b>Storage Temperature</b>	-20°C ~ +60°C (Humidity < 90%RH, Non-condensing)
<b>Operating Temperature</b>	-10°C ~ +50°C (Humidity < 90%RH, Non-condensing)
<b>Dimension</b>	47 × 47 × 64.4 (WxHxD)
<b>Weight</b>	155g
<b>Certifications</b>	NA

## Dimension

