

# EYE6N0-S08M678R

## AI video Smart City Camera

YUAN  
Visualize Intelligent Planet

### Features

- 4K60 HDR/WDR smart camera with video AI processing capability powered by NVIDIA Jetson Orin NX
- Up to 100 TOPS AI performance, supports multiple AI models and Generative AI
- Hardware ISP design without CPU/GPU Loading
- Lens support auto-focus and auto-IRIS
- DMA PCIe design high-bandwidth capture, providing RGB444 image quality
- IP66 waterproof rating withstand outdoor tolerance within temperature from -20~50 °C

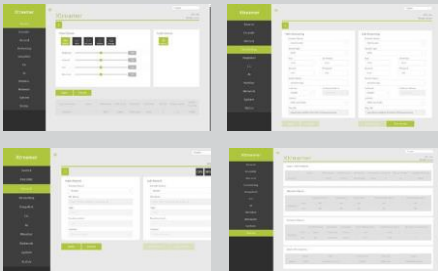


### Camera Specifications

Sensor Specifications			
Max Resolution	3840x2160 (8M)	Frame Rate	60
Shutter	Rolling Shutter	Sensor Size	1/1.8"
Pixel Size	2.0 x 2.0 μm	Sensor Model	CMOS
Color/Mono	Color	Lens	Build in Focal lens
Min illumination / light sensitivity (Color)	TBD	Min illumination / light sensitivity (B/W)	TBD
Lens Specifications			
Focal Length	10.2mm (W) ~ 29.5mm (T)	Aperture	F1.6 (W) ~ F1.7 (T)
FOV(D)	52~16.6 degree	Mount	Build in
IRIS Control	DC Auto IRIS	IR Cut Filter	Can be switched on or off
Video Tuning Specifications			
Shutter Speed	1/30(1/25) second – 1/76800 second	Auto Gain Control	60dB
HDR	Yes (2 Frames)	WDR	Yes
2D/3DNR	Yes	Low Light Gain Technology	Yes
Video Adjustment	Brightness, contrast, hue, saturation, sharpness, horizontal flip, vertical flip, rotation, overexposure suppression	EV Value	EV -4 ~ Ev + 4

### System Specifications

System		
CPU	NVIDIA Jetson Orin™ NX 8GB 6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3	NVIDIA Jetson Orin™ NX 16GB 8-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 2MB L2 + 4MB L3
GPU	1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Cores	
AI Performance	NVIDIA Jetson Orin™ NX 8GB 70 TOPS	NVIDIA Jetson Orin™ NX 16GB 100 TOPS
System Memory	NVIDIA Jetson Orin™ NX 8GB 8GB LPDDR5	NVIDIA Jetson Orin™ NX 16GB 16GB LPDDR5
Interface		
Storage	Supports External NVMe	
Ethernet	1xRJ45 for 10/100/1000Mbps Ethernet DHCP Client	
Wireless	Wi-Fi 6	
Expansion Slot (M.2)	1xM.2 2230 M Key PCIe Gen4x2 Slot 1xM.2 2230 E Key PCIe Gen4x1 Slot	
USB	1xUSB3.2 Gen2 (Type-C)	
Peripheral Communication	1xUART(*) 2xGPIO(*) *: Please select either 1xUART or 2xGPIO to use	

Video Feature	
Video Encode	AV1 ( UHP ) 1x4K60
	H.265 ( UHP ) 1x4K60
	H.264 ( UHP ) 1x4K60
SDK	
QCAP	Capture High Performance Renderer Image Snapshot Deinterlace, Alpha Blending Engine Auto Signal Detection 2D/3D Video, Audio and VANC Streams Capture
	Record Encrypt / Sync / Clone / Recording Time-Shifting / Rewind / Pre-Event / Recording Multi-Streams ( 3D ) Recording Animation Transition Effect Video Cropping, Scaling and Alpha Blending Engine
	Stream 2D/3D Universal Stream Client 2D/3D Multi-Streams Stream Server RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*), Dante AV-H (*) Animation Transition Effect Video Cropping, Scaling and Alpha Blending Engine <b>*Separate License Required</b>
QDEEP	AI SDK Integrated Multiple Algorithms and Deep-Learning Models in Various Fields of Applications Face Recognition Objects Detection Objects Segment Optical Character Recognition License Plate Recognition Customizable Video AI Functions Upon Request
Software ( Optional )	
Xtremer	Web Based User Interface
	Encode / Decode AV1, H.26X
	Color Format Adjust 444 / 422 / 420, 10Bit / 8Bit Select
	Record MP4, TS
	Stream / Network RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*), Dante AV-H (*) <b>*Separate License Required</b>
	

## Environment

Development Environment	
OS	Ubuntu: 20.04
Kernel	5.10.104-tegra or Higher
BSP	Linux for Tegra(L4T) R35.3.1 or Higher
SDK	JetPack 5.1.1 or Higher
System Spec	
Power Supply	DC Input : 9~24V ( Max 3.5A )
Power Consumption	25W (Max)
Operating Temperature	-20~50 °C
IP Rating	IP66

## Mechanical

- Dimension of Case: 90cm(W)x90cm(H)x210cm(D)
- Weight: TBA



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