

EYE6N0-I678 ONX

AI Video Industrial Camera

Features

- Adopting Sony STARVIS 2 Sensor
- Hardware ISP desing without CPU/GPU Loading
- HDR (High Dynamic Range) Support
- DMA PCIe Design High-Bandwidth Capture, providing RGB444 image quality
- C/CS-Mount Design offering flexibility for professional customers to use different lens combinations



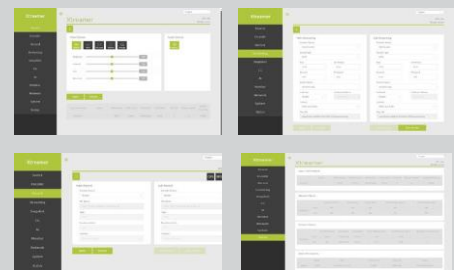
Sensor Specifications

CMOS Specifications			
Image Sensor	IMX678		
Resolution	3840x2160	Frame Rate	60
Shutter	Rolling Sutter	Sensor Size	1/1.8"
Pixel Size	2.0 x 2.0 μm	Sensor Model	Sony IMX678
Color/Mono	Color	Lens Mount	C/CS Mount

Specifications

System			
CPU	NVIDIA Jetson Orin™ Nano 8GB Super 6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3	NVIDIA Jetson Orin™ NX 8GB Super 6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3	NVIDIA Jetson Orin™ NX 16GB Super 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™ Nano 8GB Super 67 TOPS	NVIDIA Jetson Orin™ NX 8GB Super 117 TOPS	NVIDIA Jetson Orin™ NX 16GB Super 157 TOPS
System Memory	NVIDIA Jetson Orin™ Nano 8GB Super 8GB LPDDR5	NVIDIA Jetson Orin™ NX 8GB Super 8GB LPDDR5	NVIDIA Jetson Orin™ NX 16GB Super 16GB LPDDR5
Interface			
Storage	Supports External NVMe		
Display Interface	1×HDMI2.0		
Ethernet	M12 1×RJ45 for 10/100/1000Mbps Ethernet DHCP Client		
Wireless	Wi-Fi 6		
Expansion Slot	M.2 1×M.2 2230 M Key PCIe Gen4×2 Slot 1×M.2 2230 E Key PCIe Gen4×1 Slot		
USB	1×USB3.2 Gen2 (Type-C)		
Peripheral Communication	M12 1×UART		
Misc. Features	Firmware Upgradable		

Video Feature		
Video Encode	AV1 (UHP)	
	1×4K60	
	H.265 (UHP)	
	1×4K60	
Video Encode	H.264 (UHP)	
	1×4K60	
	H.264 (UHP)	
	1×4K60	
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	
QDEEP	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	
	*Separate License Required	
	AI SDK Integrated Multiple Algorithms and Deep-Learning Models in Various Fields of Applications	
Xtremer	Face Recognition	
	Objects Detection	
	Objects Segment	
	Optical Character Recognition	
	License Plate Recognition	
	Customizable Video AI Functions Upon Request	
	Web Based User Interface	
	Encode / Decode	
	AV1, H.26X	
	Color Format Adjust	
Xtremer	444 / 422 / 420, 10Bit / 8Bit Select	
	Record	
	MP4, TS	
	Stream / Network	
	RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*), Dante AV-H (*)	
	*Separate License Required	



Environment

Development Environment	
JetPack	6.2 or Higher
System Spec	
Power Supply	DC Input : 12~24V
Power Consumption	TBA Supports Orin NX and Nano Super Mode, with power consumption support up to 40W.
Operating Temperature	0~40 ` C
IP Rating	IP54

Mechanical

- Dimension of Case: 8cm(W)x13.5cm(H)x63cm(D)
- Weight: TBA