ICAM-520/500 Series Industrial AI Camera



Features

- 1.6MP 60 FPS, SONY industrial grade sensor
- Programmable variable focus lens
- Advanced LEDs illumination
- NVIDIA Jetson Al system on module
- HW ISP no GPU/CPU workload

Description

Advantech ICAM-520/500 series is a highly integrated Industrial Al Camera equipped with programmable variable focus lases, LED illumination, SONY industrial grade image sensor, multiple core ARM processors and NVIDIA AI system on module. Equipped with varifocal lens and LED illumination, Auvantech ICAM-520/500 reduces installation and maintenance effort significantly. Featuring CAMNavi SDK, HTML5 web based utility and NVIDIA Deepstream SDK, ICAM-520/500 series accelerates the development and deployment of cloud-to-edge vision Al applications. The CAMNavi SDK uses Python language by default and is better adapted to intract general and RTSP interface seamlessly connect to Al cloud services. Advantech ICAM-520/500 series is an all-in-c ne. Join Jact and rugged industrial Al camera, and is ideal for a variety of Edge Al vision applications.

Specifications

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Model		ICAM-520-10/12W	ICAM-500-10/12W
Image Sensor	Sensor	SONY MX296, 1.6MP@60fps	SONY IMX296, 1.6MP@60fps
illiage selisui	Size, Shutter	1/2.9", Global Shutter, Color	1/2.9", Global Shutter, Color
Processor system	CPU/GPU Memory/ Storage	NVIDIA Xavier NX 6-core NVIDA Camel \RM® \3.2 64-bit CPU 6MB L2 + 4MB 13 (Max. operating freq. ency: 1.9GHz GPU: 384-core NVIDIA Volta GPU with 48 Tensor 8 GB 126 bit Li DDR4 / 16G eMMC	NVIDIA Jetson Nano CPU: Quad Core ARM Cortex A57 (Max. operating frequency: 1.43GHz) GPU: Maxwell GPU, 128 CUDA core, performance up to 512 GFLOPS (FP16) 4GB LPDDR4 /16G eMMC
	ivierriory/ Storage	12 mm v. riable focal length:	40D LFDDN4 / 100 EIVIIVIO
Optical	Lens	TOV 10 x 19.3 mm @ 100 mm working distance 1 °V 36. 5 x 263.7 @ 900 mm working distance 16mm variable focal length: 50V 33.9 x 25.3 mm @ 100 mm working distance FOV 305.4 x 228.2 @ 900 mm working distance	
	LED illumination	8 x PWM white LEDs, programmable	
Synchronization		Hardware trigger / software trigger / free-run	
HW ISP		Color debayering, sharpness, white balance, CCM correction, dark noise correction and brightness	
	Peripheral	1 x USB 3.0 Type C, 1 x RS485	
I/O	Digital I/O	1x trigger in, 2 x Inputs, 2 x Outputs	
	Display	1 x HDMI 2.0	
LAN		1 x 10/100/1000 Base-T	
Power Requirement	ts	19~24V _{DC} Max: 18W, typical 15W	19~24V _{DC} Max: 17W, typical 15W
Dimensions		82mm (W) x 121mm (H) x 63 mm(D)	82mm (W) x 121mm (H) x 60 mm(D)
Environment		0-45° C, 5Grms,	
Certification		CE/FCC , IP54	
	OS	Ubuntu 18.04, Jetpack 4.6.2	Ubuntu 18.04, Jetpack 4.5.1
Software support	Software	NVIDIA Deepstream SDK	
	SDK/Utiltiy	CAMNavi SDK, Web based camera utility, IP configure tool, NVIDIA DeepStream SDK & example	

Ordering Information

P/N	Description	
ICAM-520-10W	Xavier NX, 1.6MP@60fps, color, 12mm Variable Focal length, White LEDs	
ICAM-520-12W	Xavier NX, 1.6MP@60fps, color, 16mm Variable Focal length, White LEDs	
ICAM-500-10W	Jetson Nano, 1.6MP@60fps, color, 12mm Variable Focal length, White LEDs	

Accessories

P/N	Description
96PSA-A65W19P2-1	Power supply A/D 100-240V 65W 19V
96FMSD-32G-CM-TR	Transcend 32GB microSDHC MLC
1700033944-01	3 m Power & DI/O cable with M12 male connector
1700034091-11	3 m Ethernet cable with M12 male connector