



YOUR BEST ODM/OEM PARTNER FOR EDGE AI CAMERAS & SENSORS



About Ability

With core competency in optical design, camera system integration and mass production, Ability (TWSE: 2374) has been providing first-class ODM/OEM service for digital imaging devices since 1965. As a global innovator in video camera devices, Ability's product portfolio includes consumer digital still cameras (DSC), professional camera modules for automotive, and smart edge cameras with associated software framework and toolkit for the latest AI-enabled video applications. The edge computing capabilities of these smart cameras provide a seamless edge-cloud collaborative computing platform for various AI applications in automotive, smart city and VSaaS (Video Surveillance as a Service). With the combined expertise in camera hardware and AI framework development, Ability is proud and ready to bring edge AI solutions to our valued OEM/ODM customers around the world.



Comprehensive AI Framework & SDK



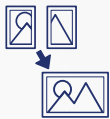
Ability Edge AI Camera Benefits for AI Vision Application Developers



Built-in Hardware AI Accelerator



NDAA Compliant



In-house developed proprietary
Auto / Dynamic Stitching of
multiple camera sensors



Rich experience in compliance fulfilment
for automotive and train applications

- EN50155: 2017 Class OT2
- Vibration - IEC61373 (Train) / ISO16750-3 (Bus)
- SAE J1455/SAE J1113
- ISO 7637-1/2/3



Compact Design to Support Various
Form Factors

(Front glass de-icing /IK69K/IP67/IK10 Design Ready)



Safe and Secure Data Transmission

- ISO 26262 Road vehicles – Functional Safety Experience (Kernel Excluded)
- Compliance to RFC4567 Secure Real-time Transport Protocol(SRTP)
- Black Duck Software for Code Composition Analysis



Proprietary Framework to Facilitate
Easy AI Model Transfer



Powerful hardware accelerates
rapid deployment of AI solutions



Seamless Migration of Proprietary AI
Algorithms to Ability Camera Via
Intel® Distribution of OpenVINO™ Toolkit
(Applicable to AI-Vue Series Only)



Model Name	VS12110	VS1NNL0	VS1NN70	VS1NL70	VS6NLB0	MD2/VD2/EBL2
Model Type	AI-Vue 2MP Bullet	AI-Vue 2MP Bullet	AI-Vue 2MP Bullet	AI-Vue 8MP Bullet	AI-Vue 8MP Dome	Azena OS 8MP Cameras
AI Engine	Intel® Movidius™ MA2485 VPU					Qualcomm QCS605
Memory	Built-in 4Gb + External Memory 4Gb	4Gb				4GB RAM/16GB eMMC
Operating System	Linux(ARM)					Azena OS 1.5.0 (Chameleon)
Image & Optical Capability	1/2.8" progressive scan 60fps @1920 x 1080 Focal: 5.1 - 51mm±5% FOV 55.2° ~ 7.1°±5% (H)±5% Auto-iris : f1.6 ~ f1.8±10% IR : 70 meters Min. Illumination: Color : 0.16 lux / B&W: 0.02 lux, F1.6		1/2.8" progressive scan 60fps @1920 x 1080 Focal: 3.2 - 10.5mm ± 5% FOV: 30.3° ~ 105.3° (H)±5% Auto-iris : f/1.6 ~ f/3.3±10% IR : 30 meters Min. Illumination : Color: 0.16 lux / B&W : 0.02 lux, F1.6		1/1.8" progressive scan 30fps @3840 x 2160 Focal : 4.46mm ~ 11mm±5% FOV : 40.03° ~ 110.9° (H)±5% Auto-iris : f/1.5 ~ f/4.3±10% IR : 30 meters Min. Illumination: Color : 0.09 lux / B&W : 0.03 lux, F1.5	
Shutter Time	1/8000 sec. ~ 1/25 sec.					1/8000s ~ 1/30s
HDR Technology	Yes					-
Video Compression	H.264, MJPEG	H.264, H.265, MJPEG				H.264, H.265
Multiple Streams	3 simultaneous streams					-
Image Settings	Configurable Brightness, Contrast, Saturation, Sharpness, White Balance, Rotate View, Exposure Mode, Stream Format, Resolution, Frame Rate, Rate Control, Video Quality, HDR, DWDR, IR Cut Filter, 2DNR/3DNR, Privacy Masks, Video Rotation					Configurable Brightness, Contrast, Saturation, Sharpness, White Balance, Rotate View, Stream Format, Resolution, Frame Rate, Rate Control, Video Quality, HDR, IR Cut Filter, DNR, Privacy Masks, Video Rotation
Audio Compression	AAC, G.711					G.711
Network Protocols	IPv4, HTTPS, SSL/TLS, DNS client, NTP client, TCP, UDP, IGMP, ICMP, DHCP, ARP, RTCP, RTSP, RTP					DHCP / SLAAC
ONVIF	Profile S					Supports ONVIF for video & metadata streaming to VMS systems
Casing	IP66, IP67, IK10					VD2/EBL2: IP67 / IK10
Safety Certifications	CE, FCC class A					CE, FCC,VCCI compliant, RoHS compliant, RCM, LVD
On-Board Storage	1x Micro-SD, SD/SDHC /SDXC UHS-I, 32GB to 512GB, class 10	1x Micro-SD, SD/SDHC /SDXC UHS-I, 32GB to 256GB, class 10				1x Micro-SD; SD, SDHC, SDXC UHS-I (16GB to 256GB); Class 10 or higher
Interface	Alarm Input*1 & Output*1/Audio Mic. in*1 & Line out*1					-
IR-ON	-20°C~ 50°C	-20°C~ 40°C			-30°C~ 40°C	-30 °C ~ 45 °C
IR-Off	Cold Start: 0°C~ 60°C Operating: -20°C~ 60°C	Cold Start: 0°C~ 60°C Operating.: -10°C~ 60°C			Cold Start: 0°C~ 55°C Operating: -10°C~ 55°C	-30 °C ~ 50 °C
Power	PoE (IEEE 802.3at)/DC 12V	PoE(IEEE 802.3at)/DC 12V/AC 24V				PoE+ (IEEE 802.3at) / DC 12V(adapter)
Cellular Modem	4G LTE (GPS Inc.) *Optional	-				-
Web Browser	Google Chrome					-
Dimensions	108mm x 90mm x 220mm	84mm x 77mm x 293.7mm	84mm x 77mm x 293.7mm	84mm x 77mm x 293.7mm	Ø142mm x 109.6 mm	MD2 : ø125 x 107.6 mm VD2:ø146.7 x 127.8 mm EBL2 : 84 mm x 77 mm x 293 mm



Model Name	VSUNQJ0	RECHB104
Model Type	AI-Cube 8MP UHD Myriad X USB A.I. Camera	AI-Cube 8MP USB A.I. Camera
AI Engine	Intel® Movidius™ MA2485 VPU	High Performance 32-bit CPU / DLA 1.5Tops
Operating System	Linux(ARM)	
Image Sensor	1/2.5" progressive scan	1/2.8" progressive scan
Max. Resolution	30fps @3840 x 2160, H.264 only	3840x2169 H.264 / 1920x1080 MJPEG / 1280x720 YUV
Fix Iris	F2.0±5%	F2.2 ± 5%
Effective Focal Length (EFL)	3.16mm±5%	2.15 mm±5%
USB Video Communication Protocols	UVC 1.1	
Video Compression	H264, MJPEG	H.264, MJPEG, YUV
Field of View	123.1°±5°(H)	113° ±5°(H)
Maximum Frame Rate	60fps @1920 x 1080	30fps @3840 x 2160 (4K) H.264
Dimensions	156mm x 90mm x 37mm	104mm x 36mm x 24.5mm



Model Name	PVS15200	PVS15200-Module
Model Type	AI-Eye 5MP Camera	AI-Eye 5MP Camera Module
Operating System	Linux(ARM)	
AI Engine	High Performance 32-bit CPU / DLA 1.5Tops	
Image Sensor	1/2.7" progressive scan	
Max. Resolution	2880 x 1620 (5MP)	
Focal Length	3.3 mm±5%	
Shutter Time	1/8,000 sec. to 1/25 sec.	
HDR Technology	Yes	
Video Compression	H.264, H.265, MJPEG	
Maximum Frame Rate	30fps @ 2880 x 1620	
Audio Compression	AAC, G.711	
ONVIF	Profile S	
Operating Temperature	IR ON: Operating temperature : -20°C~ 45°C IR OFF: Operating temperature : Cold Start Temp.: 0°C~ 55°C, Operating Temp.: -20°C~ 55°C	-
Web Browser	Google Chrome	
Dimensions	68mm x 65mm x154 mm	42mm x 42mm (Sensor Board / Main Board)

Make Your Everyday Life Easier and Safer



Suggested AI Cameras and Solutions

Series	Model	Smart City / Surveillance	Traffic / Transportation	Retail	Education
AI-Vue	VS12110	•	•		
	VS1NNL0	•	•		
	VS1NN70	•		•	
	VS1NL70	•		•	
	VS6NLB0	•		•	
AI-Cube	RECHB104			•	•
	VSUNQJ0			•	•
AI-Eye	PVS15200	•		•	
	PVS15210	•		•	
	PVS15200-Module		Depends on Customer's Request		

● Best Fit ○ Adequate

* Other Request Subject to Further Discussion

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ABILITY ENTERPRISE CO., LTD.

www.abilitycorp.com.tw

No. 200, Sec. 3, Zhonghuan Rd., Xinzhuang Dist., New Taipei City 242, Taiwan (R.O.C.)

ODM / OEM WELCOMED

Ability Taiwan / Headquarter
Tel: +886-2-8522-9788
Email: Sales.Ability@abilitycorp.com.tw

Ability USA
Tel: +1-858-401-2868
Email: Ken.Lin@abilitycorp.com.tw

Ability Italy
Tel: +39-35-1956-9498
Email: Giovanni.parisi@abilitycorp.com.tw