BABILITY

Automatic Number Plate Recognition

Safer and Fully Automatic Street & Parking Solutions

DEF-5678

ABILITY AI-Vue ANPR Camera is an ANPR AI camera designed with Intel® Movidius™ and supported by Intel® OpenVINO™ toolkit, AI-Vue ANPR Camera is best-in-class AI- algorithms-carrier for seamless integration of your AI solutions from Cloud to Edge!!



ABC-1234

Faster AI Development

vision library, framework, & pretrained models.



Contact Less Time-saving & Convenient. Just stop, go & pass.



Instant Recognition

Specialize in vehicle detection for license plate recognition as high as 60 fps of 1920*1080 resolution.



High Accuracy

Adaptive to high contrast lighting condition with Ability = Super HDR Pro (HDR + WDR).



Powered with 40m Infrared LED with clear night visibility & weather-proof housing.

24 Hours Operation

GHI-9012



Ready for Integration

Flexible for dynamic configuration from front-end to back-end such as access gates, signage, VMS, etc.

ABILITY AI-Vue ANPR Camera



Product Overview

The industry-leading AI-Vue ANPR Camera is an ANPR AI motorized Varifocal Bullet network camera. Powered by Sony Starvis 2MP sensor, the frame rate reaches as high as 60 frames per second at 1920*1080 pixels. The camera is deployed with a 5-50mm 10X lens and an IR illuminator up to 40 meters effective range for better night visibility. Weather-proof IP66 & IP67 and vandal-proof IK10 housing make the camera withstand violent situations for outdoor surveillance applications.

Feature List

• ANPR: Decode license plate image for validation of AI applications under restricted lighting conditions

• Super HDR Pro (HDR+WDR): Ensures images with quality under severe outdoor scenarios and meet

high accuracy requirement for AI applications

• Smart IR: Adjusts the angle & brightness of IR LEDs automatically to an appropriate exposure level for image details

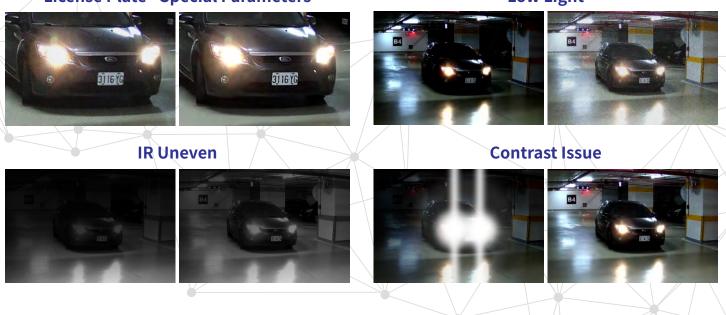
• Low Light: Enable to see the color at night by extreme low Lux

A Clearer Visibility AI Applications Can Have Than Before

Ability Super HDR Pro (HDR+WDR) is featured with a synchronized utilization of both HDR & WDR. The performance of Ability Super HDR Pro (HDR+WDR) ensures images with quality to severe outdoor scenarios and meets high accuracy requirement for AI applications as test result shows by Imatest. This brings AI-capable cameras to next level of industry standard.

License Plate - Special Parameters

Low Light

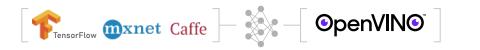


Product Specifications

Model Name Model Type Image Sensor Max. Resolution	VS1NNL0 AI-Vue 2MP bullet 1/2.8" prograssive scan
Image Sensor	
Max. Resolution	1/2.8" progressive scan
	1920 x 1080 (2MP)
Focal Length	5.1-51mm±5%
Iris	Auto-iris
Field of View	55.2°~7.1°±5% (Horizontal)
	31.8°~4.1°±5% (Vertical)
	62.5°~8.1°±5% (Diagonal)
Shutter Time	1/25 sec. to 1/8,000 sec.
HDR Technology	YES
IR Illuminators	Built-in IR Illuminators up to 40 meters (70m under Planning)
Minimum Illumination	Color: 0.04 lx, F1.6
	Black: 0.02 lx, F1.6
Video Compression	H.264, H.265, MJPEG
Maximum Frame Rate	60fps @1920 x 1080
Maximum 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
Audio Compression	AAC /G.711
Network Protocols	IPv4 ; HTTPS ; SSL/TLS ; DNS client ; NTP client; TCP ; UDP ;
	IGMP ; ICMP ; DHCP ; ARP ; RTCP;RTSP ; RTP
ONVIF	ONVIF Profile S
Casing	IP66, IP67, IK10
Operating Temperature	IR ON: Operating temperature: -20°C ~ 40°C
	IR OFF: Operating temperature: -20°C ~ 60°C
Humidity	20% to 55%
On-board Storage	1x Micro-SD ; SD / SDHC /SDXC UHS-I, 32GB to 256GB, class 10
	RJ-45 cable connector for Network 10/100/1000 Mbps PoE (IEEE 802.3at)
Interface	DC 12V / AC 24V /
	Alarm Input*1 & Output*1 / Audio Mic. in*1 & Line out*1
Web Browser	Google Chrome
Dimensions	84mm X 77mm X 293.7mm
	VSHXXX0
Accessories	
Accessories	Junction Box for standard bullet

Artificial Intelligence & Deep Learning

Ability ANPR camera series can quickly deploy AI applications and solutions via Intel® **OpenVINO**[¬] toolkit that simulate human vision and sound. This tool kit is a free software and can directly run on Ability Edge-AI camera platforms. **OpenVINO**[¬] can be used in Windows, Linux, MacOS operating systems, and support OpenCV, OpenVX computer vision library, Tensorflow, Caffe, MXNet, ONNX, Kaldi as well as other related machine learning models. There are also dozens of Inference Engine Samples code and Pre-Trained models in this tool kit for customers to develop directly. These models are applicable in fields like consumer electronics, medical, financial, retail, government, energy, transportation and industrial. Intel® **OpenVINO**[¬] tool kit is suitable for OEM or system integrators to deploy solutions quickly and easily.





BABILITY Automatic Number Plate Recognition Solution - 3

Adaptive Traffic Control Systems (ATCS)



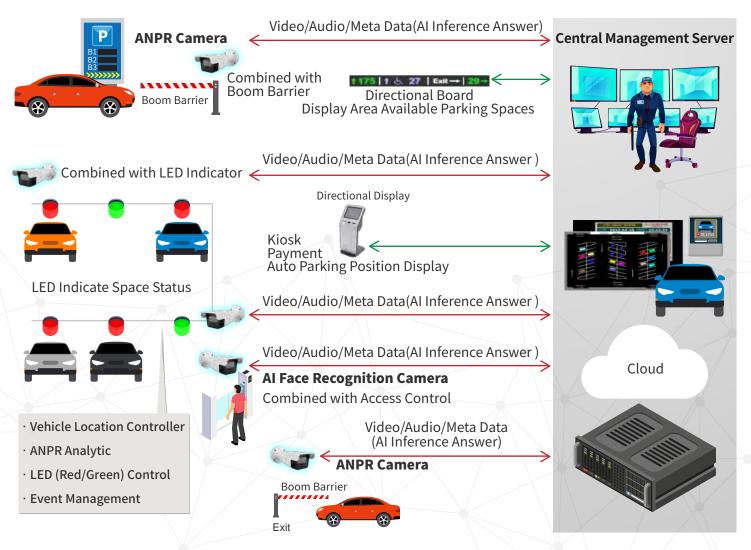
ATCS makes use of AI to optimize traffic with best timing of traffic signals. The system composites cameras and sensors for data collection and analyze with AI models at particular junctions. The network optimizes the signal pattern based on traffic density and assists control center on a real-time basis. It allows signals to interact with each other and coordinate signal timings to keep traffic flow smoothly.

With smoothing traffic flow, ATCS can enhance traffic time

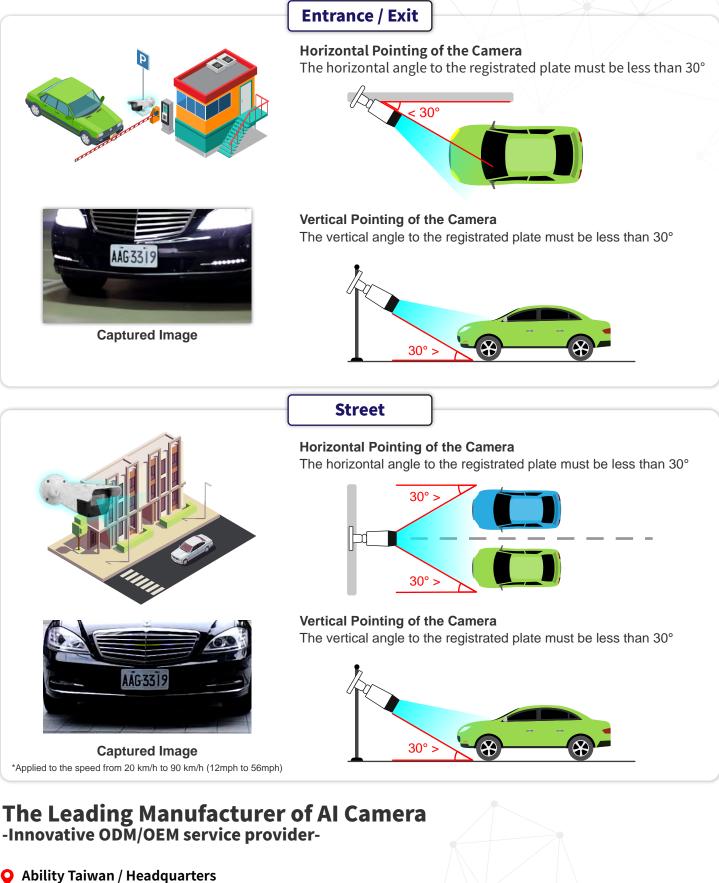
reliability, increase traffic signal timing efficiency, and save fuel (cost) by less stops.



Smart Parking Solution



Installation



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

O Ability USA

Tel: +18584012868 Email:Ken.Lin@abilitycorp.com.tw

💡 Ability Italy

Tel: +393519569498 Email:Giovanni.parisi@abilitycorp.com.tw