

AI Car Make Aida ANPR and Parking Violation with Car Make Recognition

Introduction

An object classification and detection system been developed through LILIN AI technology which can identify vehicle's brands in real time. Besides, utilizing the NAV Client management system to obtain big data report .

Aida ANPR and Parking Violation with Car Make Recognition

Industry	
Product code	AICarMake
ANPR or object recognition supported	ANPR and Parking Violation with Car Make Recognition of Aston Martin, Audi, Acura, Alfa Romeo, Abarth, Austin Healey, Bentley, BMW, Bugatti, Buick, Borgward, Citroen, Chevrolet, Chrysler, CMC, Cadillac, Corvette, Dodge, Daihatsu, Dennis Eagle, Delorean, DMC, Datsun, Ferrari, Ford, FIAT, Fisker, GMC, Greyhound, Genesis, Gibson, Honda, Hyundai, Holden, Hino, Hummer, Infiniti, ISUZU, IVECO, Jaguar, Jeep, Kia, KenWorth, Lamborghini, Land Rover, Lexus, Lotus, Luxgen, Lincoln, Lotus, Lada, M-Benz, Mahindra, Mustang, Mazda, McLaren, Mini, Mitsubishi, Maserati, Nissan, Mercury, Mopar, Mack, MG, Morgan, Opel, Oldsmobile, Peugeot, Porsche, Pontiac (Firebird), Plymouth, Renault, Rolls-Royce, Rover, Skoda, Smart, Ssangyong, Subaru, Suzuki, SCANIA, Shelby, Saturn, Tesla, Toyota, Tata, Thunderbird, Sunbeam, Spyker, UD, Volkswagen, Volvo, Viper
Camera supported	LILIN cameras (recommended) and ONVIF cameras
Supported AI engines	Car make/brand recognition
Aida processing power capability	Aida power 4 / ch
Recognition speed (per server)	4 recogs / sec / ch
Maximun objects recognized in a frame	24 car makes / frame
Zone confinguration	4 zones
Color recognition	Logo
AI recognition resolution requirement	Object 120x120 pixels
Object size filter	Yes
SDK	Yes
Video resolution	1920 * 1080 or lower
Language supported	English / Traditional Chinese / Japanese / Italian
User management with access rights	Three levels
Application	Traffic management
Recording (optional)	Navigator Corporate

Number Plate Recognition

Vehicle detection speed	60kmh/37.2mph
Plate color	White, yellow, green, black, and red supported
States / provinces	USA, Middle East, Japan, Indonesia
Angle of license plate	Up to 15 degrees
Camera installation angle	0 to 30 horizontal degrees
Support "-" recognition for plates	Supported
Support OSD Unicode for number plates	Supported
NAV Detection area	Configurable
NAV the length of plate digits	Minimum and maximum length configurable
NAV exclusion list	Configurable
NAV quick search (playback)	Configurable
NAV snapshots (playback)	PIP and OSD text overlay
NAV alarm management on detection	Full screen alarm popup, PC sound alarm, trigger IP camera digital output, email snapshots, redirect a PTZ preset recall, alarm snapshot

Traffic management	
Behavior	Car make recognition ,Number plate recognition ,Parking violation
Behavior counter	64

Alarm Notification	
HTTP Post notification	LILIN smart IO box, LILIN LED display, third-party network device, or cloud
HTTP/HTTPS push notification with JPEG snapshot	16
Support Line notification	Via IFTTT
Digital output	Controllable via IP cameras or LILIN Network I/O Box
Car park counting for multi cameras	LILIN LED display
Building capacity counting display	LILIN LED display

System Sequirements	
Suggested CPU	Intel® i 7 or above
GPU/VPU supported	Intel® HD Graphics 630 or above, PMH-XM2280, Intel® Movidius™ NCS2, NVidia 1050 4G or above
System memory	RAM 16 G (recommended)
OS requirement	Windows 10 with DirectX 12 installed

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