

# AIFLOW Aida Traffic Management

## Introduction

LILIN Aida traffic flow management precisely detects multiple objects, such as pedestrians, bicycles, cars, motorbike, bus, truck, trailer, TSI TSI, and pickup truck detection. Manage traffic flows in real-time and sends alarm notifications when traffic congestion is detected, effectively diverting city traffic. Besides, utilizing the NAT Client management system to obtain big data report.

- ▶ Detect multiple objects, including pedestrians, bicycles, motorbikes, cars, pickups, trucks, busses, trailers, and other vehicles °
- ▶ Gain statistical insight to real-time traffic patterns and moving violations °
- ▶ Utilize simple and effective traffic queueing detection for traffic management and optional alarm notifications °

Aida Traffic Management	
Industry	
Product code	AIFLOW
ANPR or object recognition supported	Person, bicycle, car, motorbike, aeroplane, bus, train, truck, boat, tuktuk, trailer, pickup, fire engine, SUV, van, police car, ambulance
Camera supported	LILIN cameras (recommended) and ONVIF cameras
Supported AI engines	Traffic management
Aida processing power capability	Aida power 2 / ch
Recognition speed (per server)	4 recogs / sec / ch
Maximum objects recognized in a frame	24 car makes / frame
Zone configuration	4 zones
Color recognition	Traffic objects
AI recognition resolution requirement	Traffic object 100x100 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

Traffic management	
Behavior counter	64
Behavior	Traffic flow counting left turn flow counting right turn flow counting wrong way counting queueing detection prohibit zone parking violation turn left violation turn right violation u- turn violation run the red light people density

Statistics and Counter Reports	
NAV statistics report (optional)	Vehicle flow, vehicle types, people counting, behavior counting, and color counting
NAV statistics report type (optional)	Web based pie chart, bar chart, and line chart JPEG snapshot supported
NAV statistics range (optional)	7 days, 30 days and 60 days
NAV statistics summary (optional)	Camera, object classification, or behavior summary report
NAV counter (optional)	Support tripwire mode and object tracking

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 Requirements	
Suggested CPU	Intel® i7 or above
GPU/VPU requirement	NVidia 2060 6G or above
Memory requirement	RAM 16G (recommended)
OS requirement	Windows 10 with DirectX 12 installed

Note: For recognition accuracy, each camera requires 6 recognitions per second. Each camera with AI Engine can cover number plate recognition of 1~2 vehicles for 1~2 lanes.

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