

# PCFLOW Aida PC Traffic Management

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## 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 PC Traffic Management            |                                                                                                                                            |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Industry                              |                                                                                                                                            |
| Product code                          | PCFLOW                                                                                                                                     |
| 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<br>left turn flow counting<br>right turn flow counting<br>wrong way counting<br>queueing detection<br>prohibit zone<br>parking violation<br>turn left violation<br>turn right violation<br>u-turn violation<br>run the red light<br>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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