



HWS800A-MT



Multi-Target Tracking
Radar Speed Enforcement

Introduction

Specifications



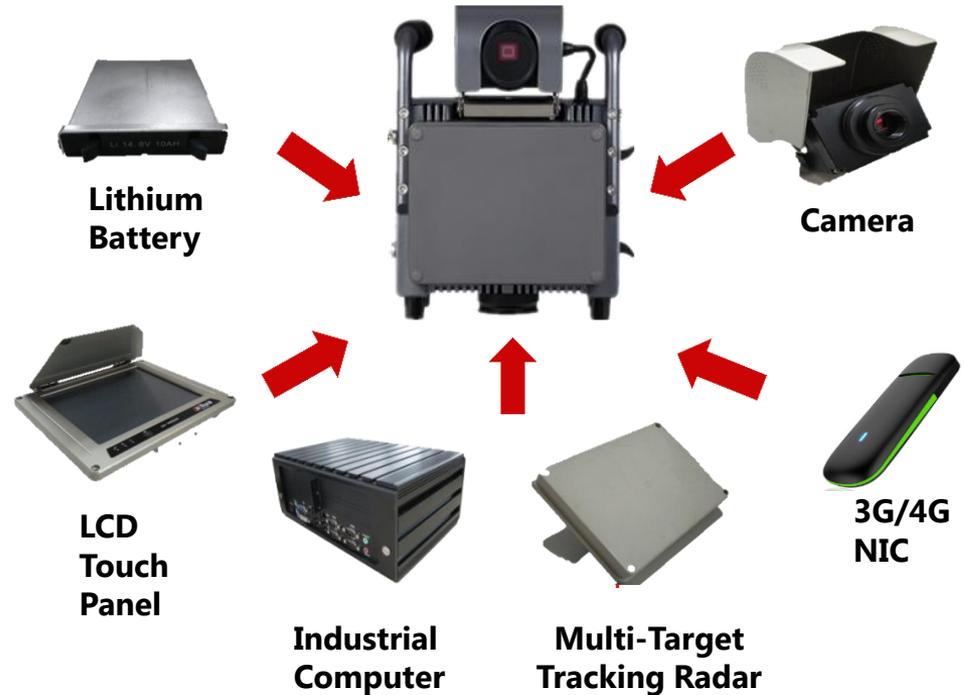
HWS800A-MT

- Support 8MP image and 2MP video dual stream output
- ICR: IR-CUT, color to B/W
- Support **multi-target tracking**
- Support **lane recognition** and distance measurement
- Radar Beam Width: Horizontal ± 6 degrees(-3dB), vertical ± 5 (-3dB)
- Image Resolution: **3296×2536**
- Measurement Range: 5 ~ 350 km/h
- Measurement Accuracy: **-4 ~ 0km/h**
- Monitor Lane: **1 ~ 4**
- Lithium Battery: 9 hours
- Video Frame: 25 fps optional
- Storage Capacity: 500GB, 2.5" HDD
- Working Temperature: -40°C ~ 70°C

Introduction

- Fully **All-in-one** Design
- Integrate the high definition camera, host, LCD, touch panel, lithium battery, narrow wave radar, special image storage disk , 3G/4G NIC together

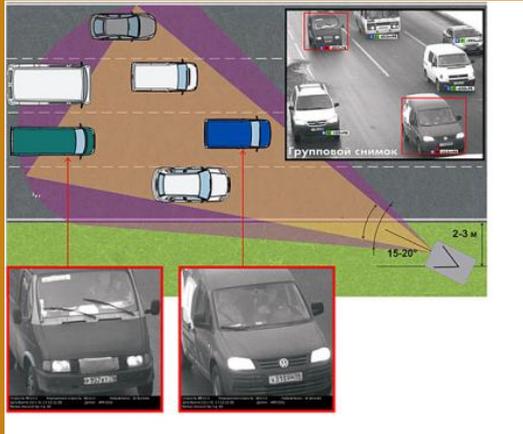
Composition



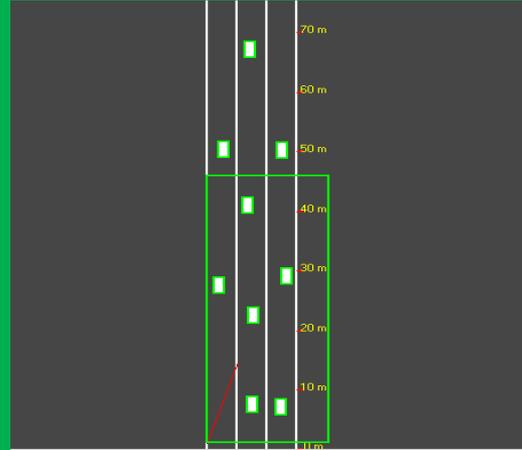
Introduction

Multi-Target Tracking

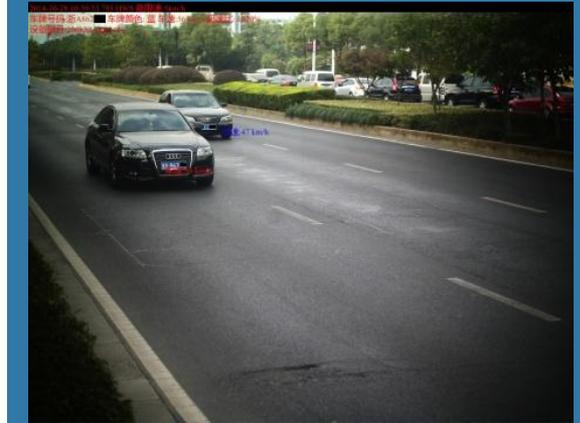
- Track up to **60 objects** simultaneously
- Track the speed and path of every object through the whole process
- Detection range: **3m – 100m**



Track Multiple Objects



Track Path

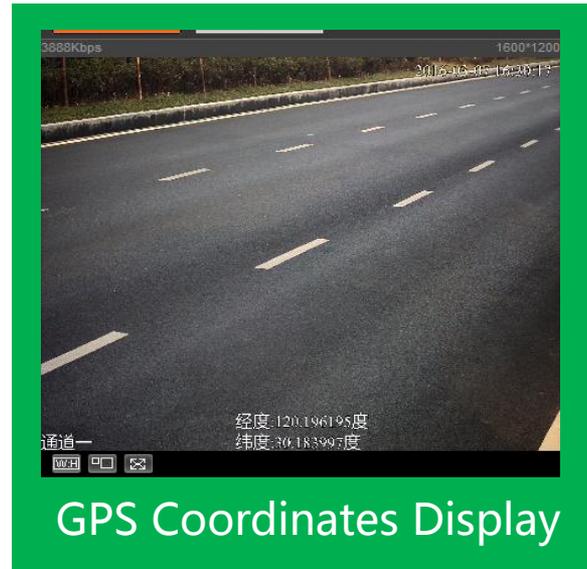
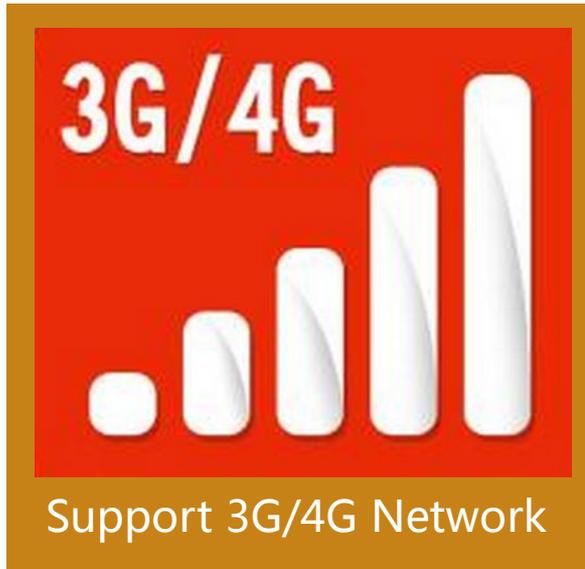


Snapshot From Real Site

Introduction

Wireless Transmission & Locating

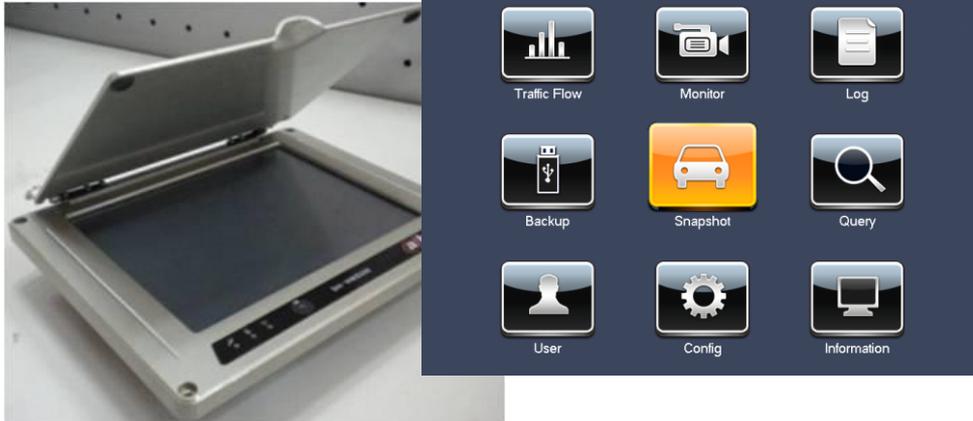
- Support **3G/4G** wireless transmission include TDD-LTE , FDD-LTE , EDGE , GPRS
- Support **GPS locating** and synchronize time



Introduction

Composition

Touch Panel



- 8.4 inch LCD touch screen
- Easy configuration and operation
- Monitor, Snapshot, Local Configuration, ANPR Search, Log

Lithium Battery



- Up to 14.3AH lithium battery
- 9-hour long time power supply
- Snap-in design, prevent it from dropping out and ensure good contact

Rich Function



- Support over speed detection, ANPR, detecting red light violation, driving direction recognition, vehicle classification, distance measurement, lane recognition
- Support IR-cut, color to B/W

High Performance



- 25fps high frame rate, making the snapshots more stable
- Multi-target tracking
- 500GB large storage capacity, flexible proportion for images and videos

High Reliability

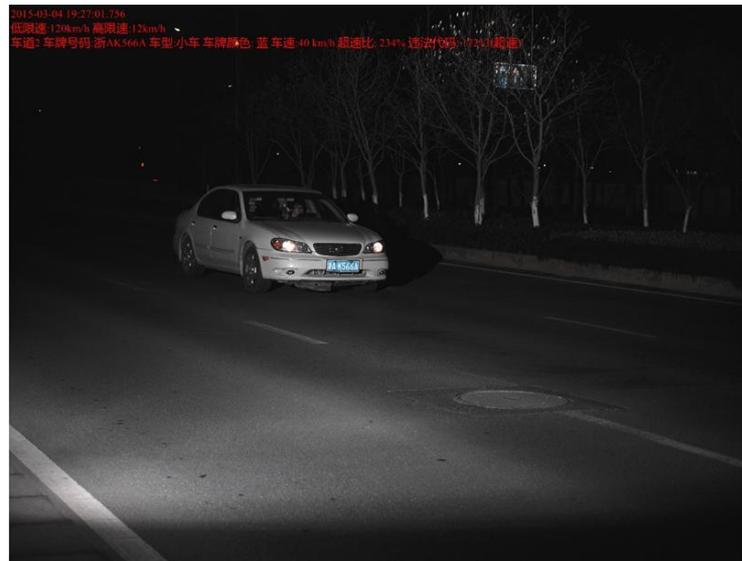
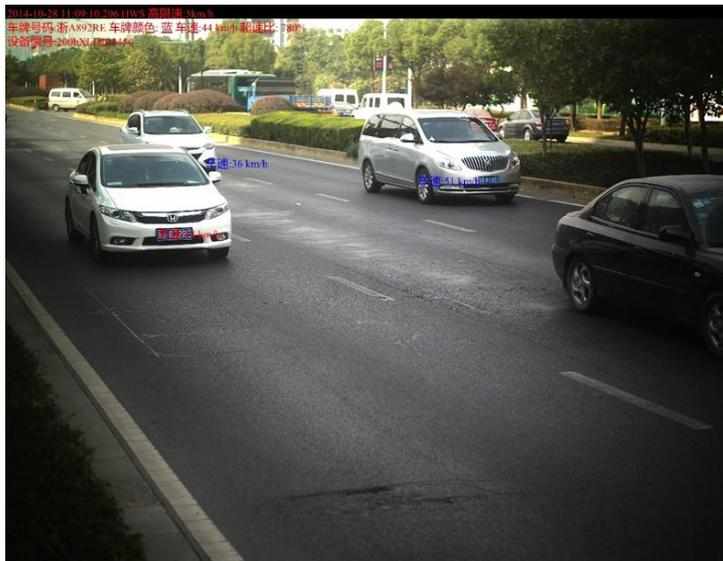


- Embedded architecture, reliable connection components
- Watermark is embedded when image is generated

Features

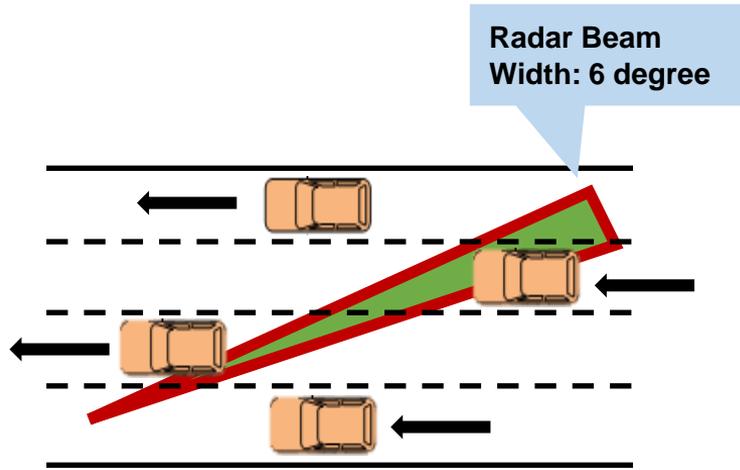
8MP High Resolution Snapshot

- 8MP high resolution CCD sensor, manage up to **4 lanes**
- Work simultaneously with white-light flash lamp, see **plate and vehicle color** clearly both in daytime and at night

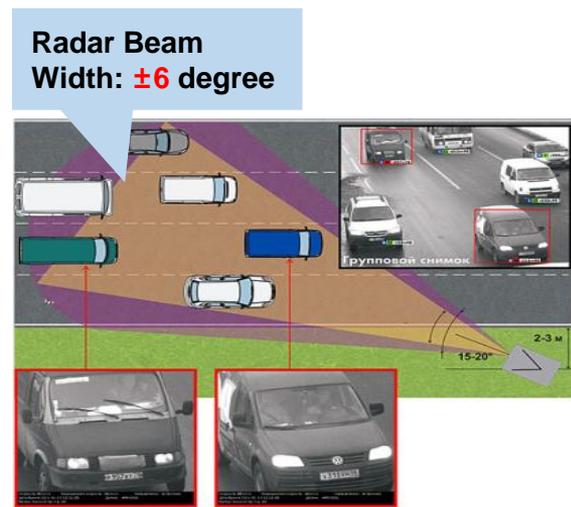


Features

Multi-Target Tracking



Traditional Speed Enforcement System



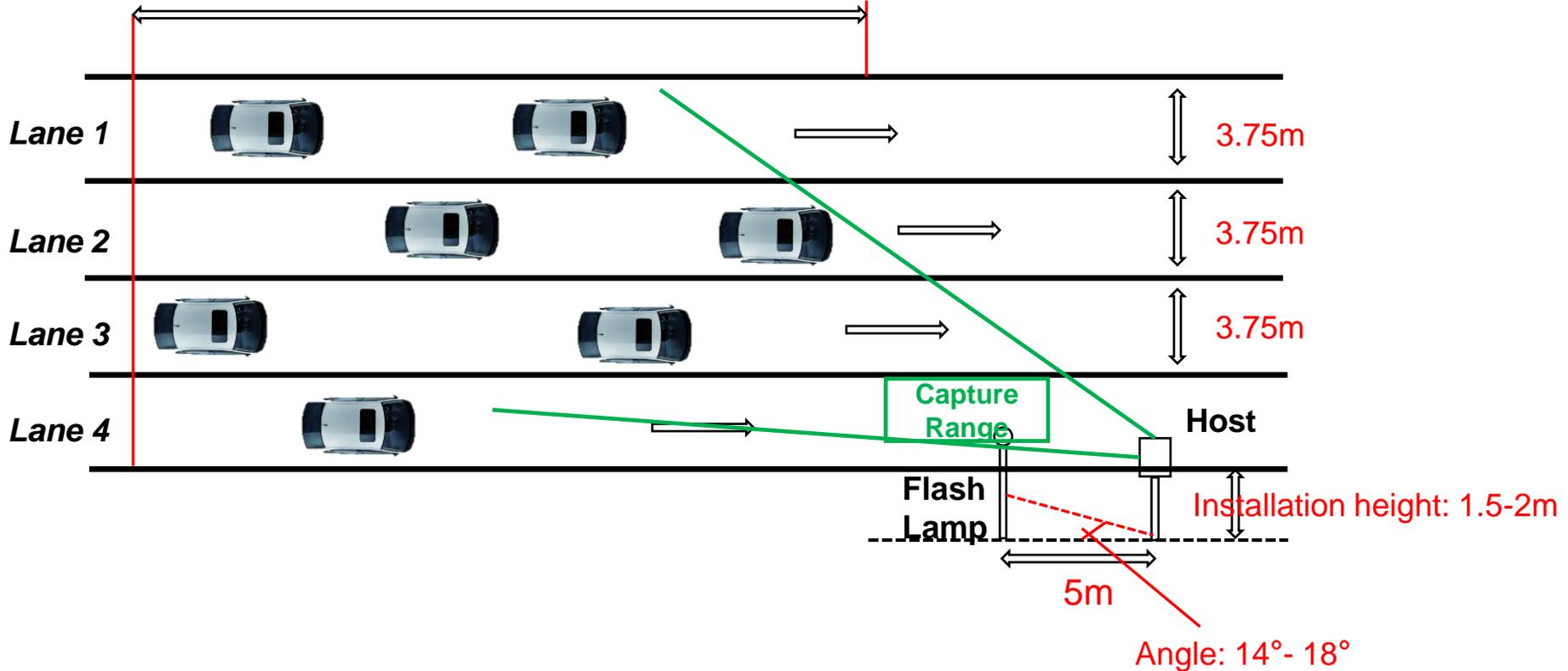
Multi-Target Track Speed Enforcement System

- Using a new 3D radar has brought wider beam angle which ensure to *wider coverage*. And calculate the angle between the object and the antenna that make radar *accurately distinguish between different objects*.
- Through more advanced algorithm for *multi-target tracking and ranging*.

Features

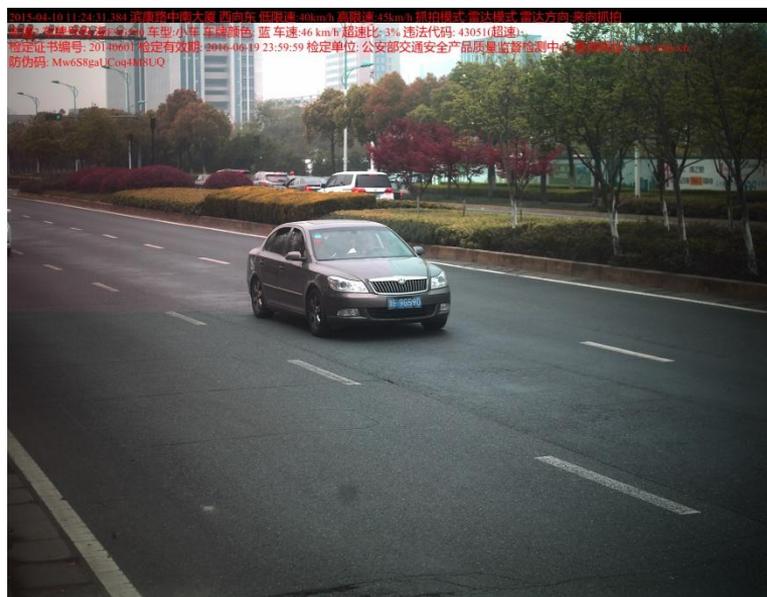
Multi-Lane Coverage

Horizontal detection range: 100m-3m from the host



Features

Vehicle Type Detection



- *Radar supports detecting vehicle type by calculating the length of vehicle*
- *Support setting the speed limit value of big and small car accordingly*

Features

High Capacity Local Storage

The screenshot displays a 'Local Storage' management window. At the top, there are two dropdown menus: 'Diskfull' set to 'Overwrite' and 'Picture Container' set to '25%'. Below these is a table with three columns: 'Device Name', 'Status', and 'remainder space/capacity'. The table lists two devices: 'Pic' and 'Video', both with a 'Normal' status. The 'Pic' device has a green progress bar and shows '0M/115108M' of space. The 'Video' device also has a green progress bar and shows '0M/357534M' of space. At the bottom of the window, there are three buttons: 'Format', 'Refresh', and 'Determine'.

Device Name	Status	remainder space/capacity
Pic	Normal	0M/115108M
Video	Normal	0M/357534M

- *Support image and video storage, 24/7 video or short violation video records optional*
- *Large storage capacity: 500G HDD*
- *Image association with illegal video*

Features

Local GUI, Easy Configuration

Radar Speed System Result

Time: 13:23:09
Date: 2011/11/04
LimitSpeed: 40 km/h
Speed: 48 km/h

NO.	Time	Speed(km/h)	Vehicle Plate	Vehicle Type
1	2011/11/04 13:23:09	48	桂ATC161	Small Car
2	2011-04-26 13:52:05	20	桂AL11Y1	Truck
3	2011-08-10 10:05:54	0		Can't recognize
4	2011-08-10 10:05:56	0		Can't recognize
5	2011-08-10 10:05:58	0		Can't recognize
6	2011-08-10 10:06:01	0		Can't recognize
7	2011-08-10 10:06:04	0		Can't recognize
8	2011-08-10 10:06:06	0		Can't recognize

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ANPR Archive and Search

Search the image and records by time, blacklist/whitelist and speed range

Speed Enforcement System Config

Radar&Lane Radar Lane

Camera Low Limit: Enable Disable

OSD Low Value: km/h

Network Large or Small: Enable Disable

Server Truck Limit: km/h Truck Trigger: km/h

Time Car Limit: km/h Car Trigger: km/h

FTP Radar Angle: Degree MaxSpeed: km/h

System Snap Direction: Approaching Departing Both

Sensitivity: L1 L2 L3 L4

Intelligent Radar Vehicle: BigSmall BigMidSmall

BlackWhiteList

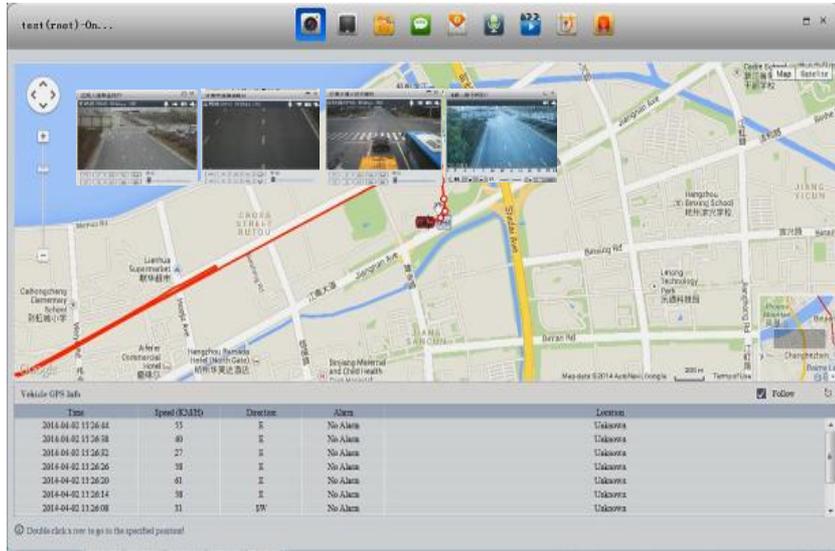
Default Save Cancel

Radar and Lane Setup

Set detection direction, sensitivity of radar
Set speed limitation for each lane respectively

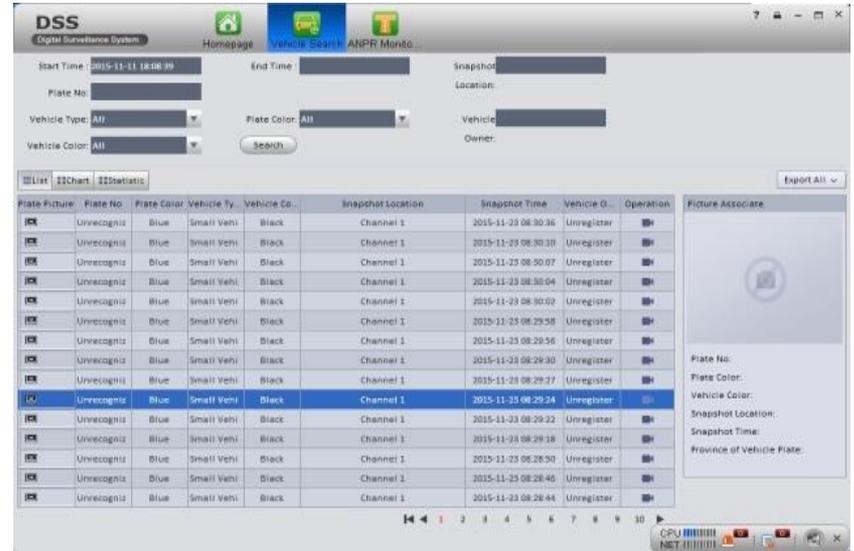
Features

In Collaboration With DSS-T



E-Map Window

- Search and view device in E-Map window
- Support live preview in the E-Map



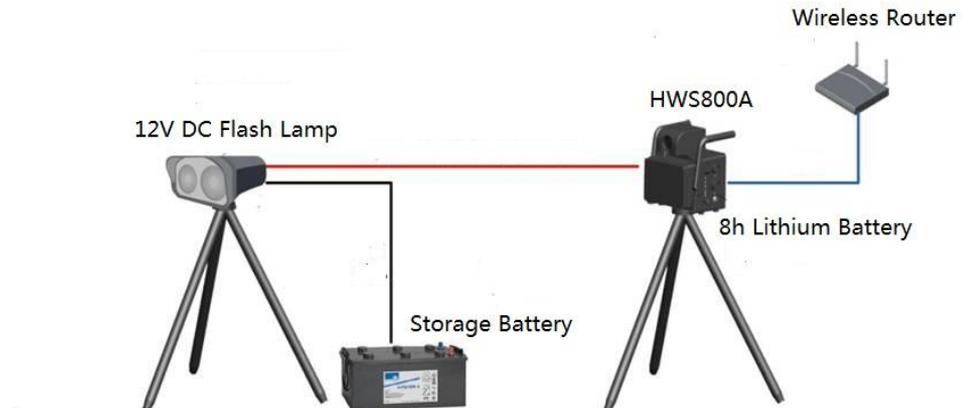
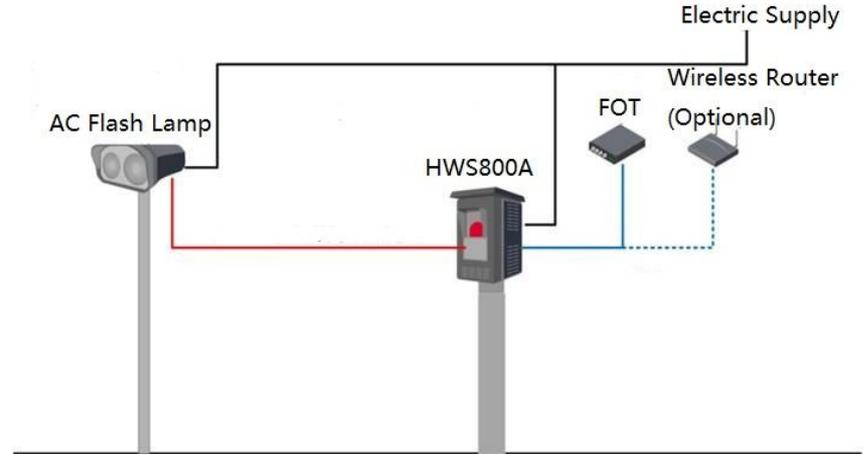
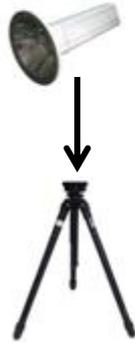
Search And Export The Violation Data

- Search the violation data according to time, place, speed, plate no. and etc.
- Support export the violation data to Excel format.

Features

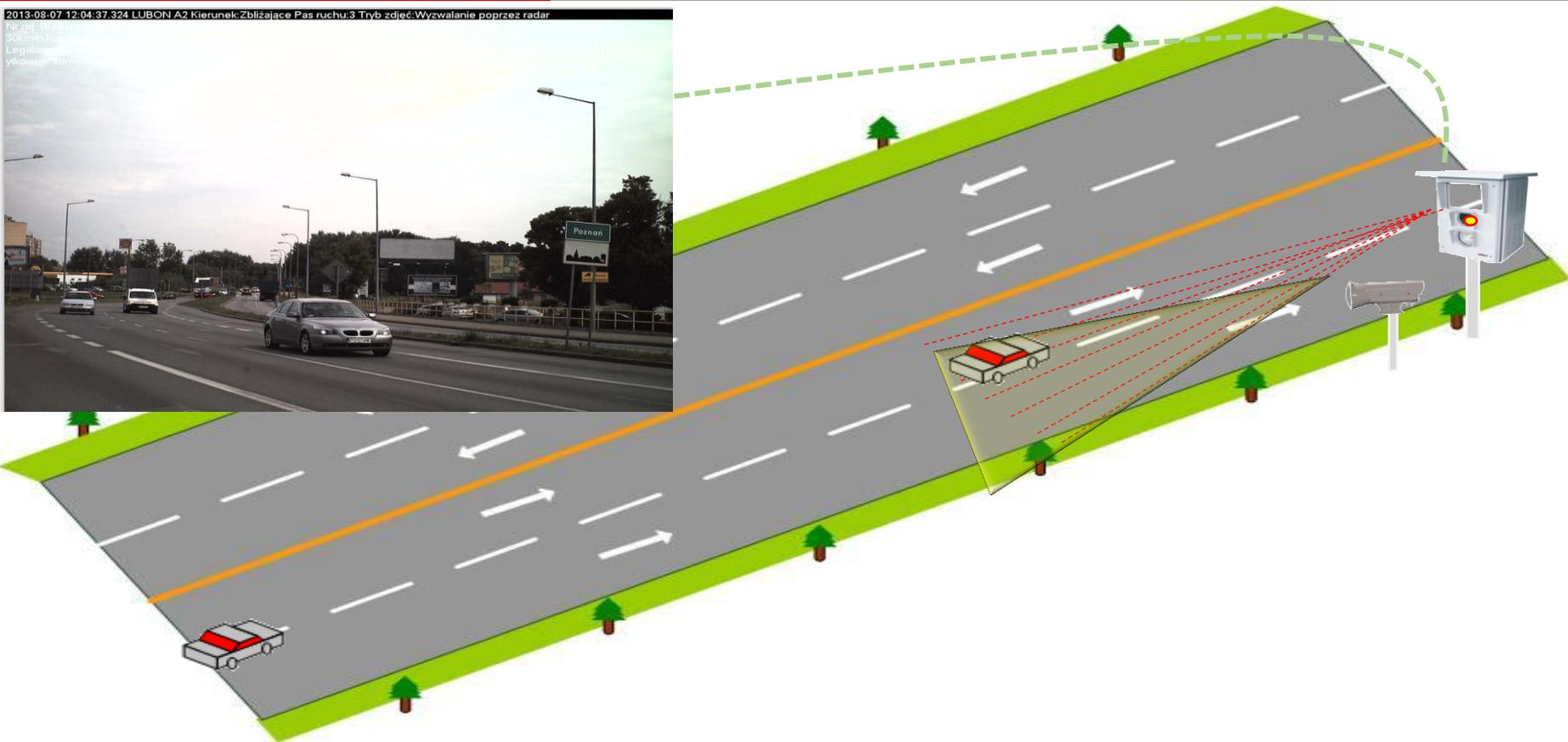
Easy Installation, Flexible Switch

Fixed Installation



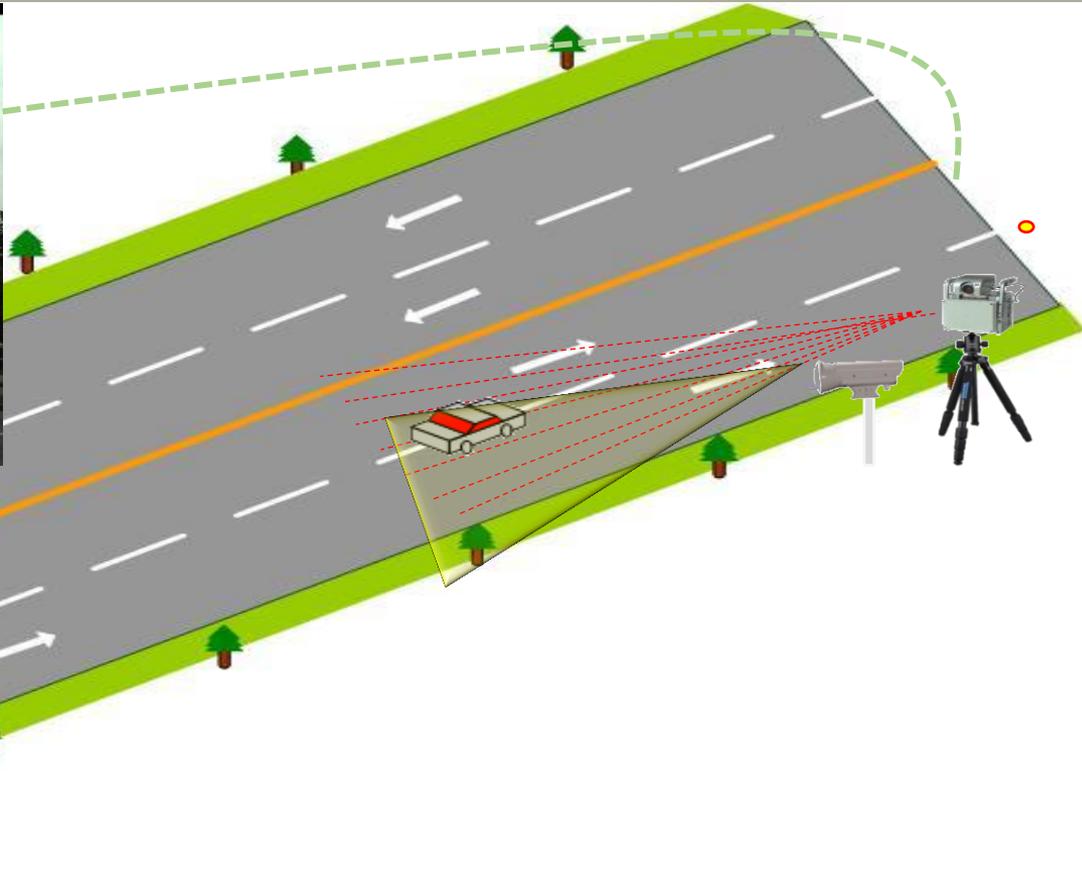
Application

Fixed Speed Enforcement



Application

Mobile Speed Enforcement



Application

Speed Enforcement

Dahua Speed Enforcement System is mainly applied on over speed or extreme low speed detection on highway or city express way, and deliver clear photographic evidences for punishment system.

Dahua HWS800A can monitor the vehicles from 1-4 lanes at the same time without interference between each other.



- *Through the narrow-wave radar technologies, over speed or low speed violations can be detected. Besides, vehicle features such as plate number and vehicle classification can also be analyzed.*
- *By get the vehicle features, the system can also analyze traffic flow for further traffic guidance.*

Application

Red Light Enforcement

Dahua Speed Enforcement System can also be used in the red light runner Enforcement . HWS80A-MT will detect the red-light signal by the signal detector which connect the signal controller, and automatically match with related lane, track passing vehicle, snapshot the violation vehicle and recognize number plate.

Dahua HWS800A can monitor the vehicles from 1-4 lanes at the same time without interference between each other.



Take 3 Snapshots with plate number as violation evidence