



HWS800A

Speed Measuring system

John
Product Engineer

Requirement



Over speed /Low speed snapshot



Violation Punishment

Reduce traffic accident



Elimination of light pollution



Value

Name Rule

DHI – HWS800A

Dahua Brand

Intelligent
Transportation Speed
Enforcement System

Generation
A: First Generation
B: Second Generation

Resolution
8 : 8MP, 3296*2536
2 : 2MP, 1920*1080

Specification



HWS800A

- Support 8MP image and 2MP video dual stream output
- Image Resolution: 3296×2536
- Video Frame: 25 fps optional
- ICR: IR-CUT, color to B/W
- Radar Beam Width: **Horizontal 15° , vertical 10°** (-3dB)
- Support lane recognition and distance measurement
- Support **multi-target tracking up to 60 vehicles**
- Measurement Range: **5 ~ 350 km/h**
- Measurement Accuracy: **± 2km/h**
- Monitor Range: **1 ~ 4 lanes**
- Lithium Battery: 9 hours
- Storage Capacity: 500GB~2TB
- Working Temperature: -40°C~70°C

Portable Solution



Mobile installation

- *Lithium battery for HWS800A, storage battery for flash lamp*
- *Tripod installation*
- *Wireless transmission*

Stationary Solution



Fixed installation

- *Electric Supply*
- *Vandal proof cabinet for HWS800A*
- *Wire or wireless transmission*

High Image Quality



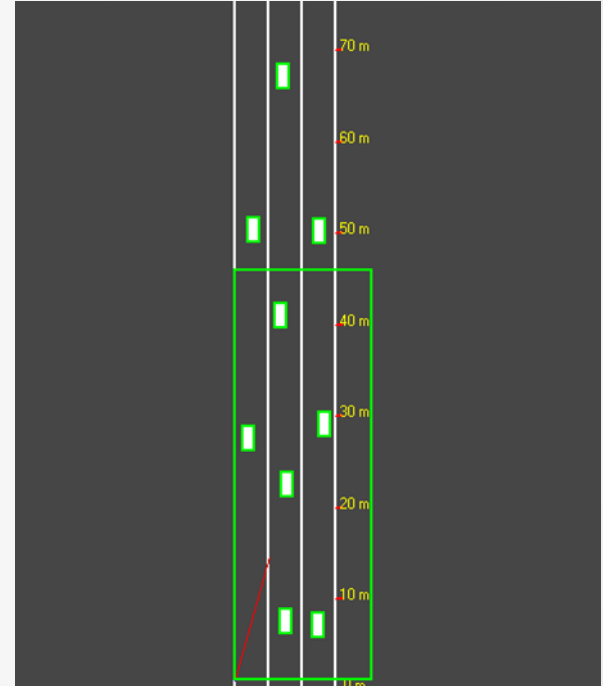
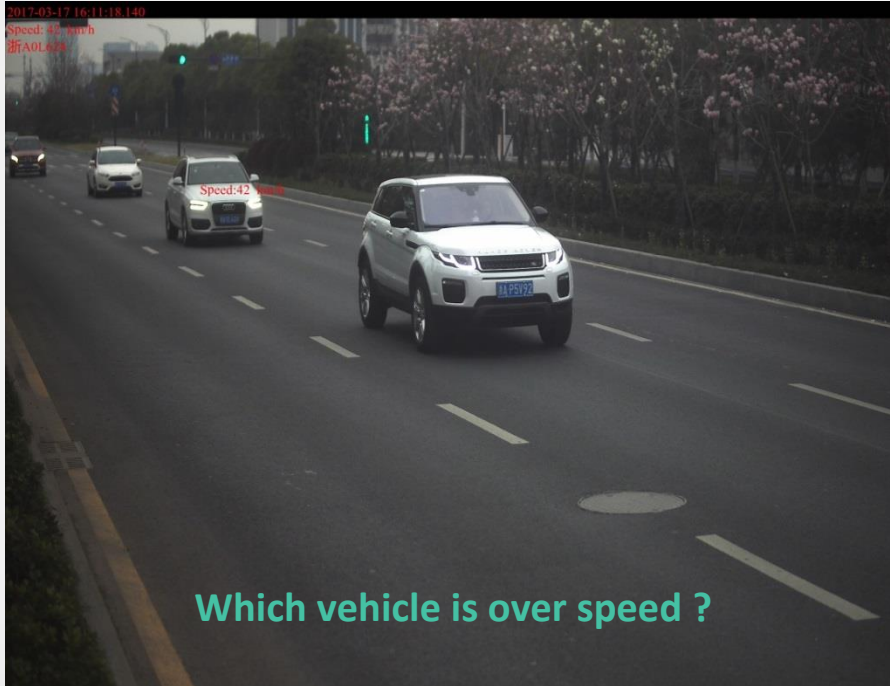
- 8MP high resolution CCD sensor, manage up to **4 lanes**
- Work simultaneously with flash lamp, see **plate and vehicle color** clearly both in daytime and at night, and IR illumination can reduce human eye offense

Vehicle Type Detect



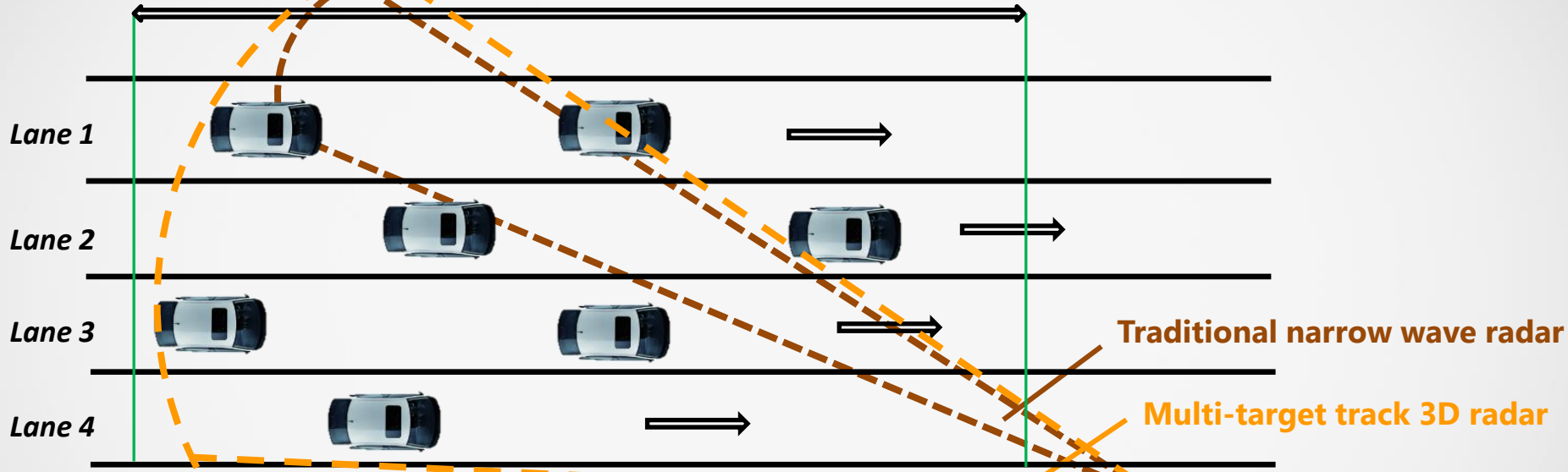
- Radar supports detecting vehicle type by **calculating the length of vehicle**
- Support setting the speed limit value of big and small car accordingly

Multi-Target Track



- Embedded advanced algorithm for **multi-target tracking and ranging**.

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



- 3D radar has brought wider beam angle which ensure to **wider coverage**. And calculate the angle between the object and the antenna to **distinguish different objects accurately**.



Overview



Touch Screen



HDD



Battery



Communication Module



Fully All-in-one Design



Friendly GUI

8.4 inch LCD touch screen with simple and friendly user interface.

Big Storage

500GB~2TB HDD for 15-day video & image storage.

Ultra-long endurance

200WH capacity support 9 hours continuous work.

Wireless Communication

Support 3G/4G wireless transmission, GPS locating and synchronize time .



ANPR

Embedded advanced LPR algorithm, applicable to more than 60 countries.



Speed

Over-speed and under-speed detection, distance measurement, lane recognition.



Enforcement

Red light violation detecting, retrograde driving and change lane recognition.



Info OSD

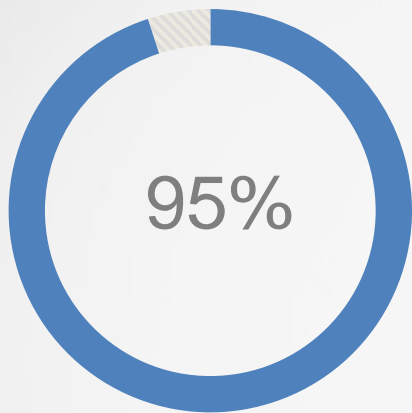
Watermark is overlaid when image generating for further check



Extendibility

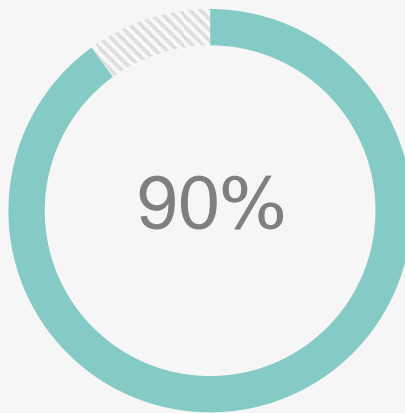
USB port, 3G/4G interface, RS232 interface and I/O signal port.





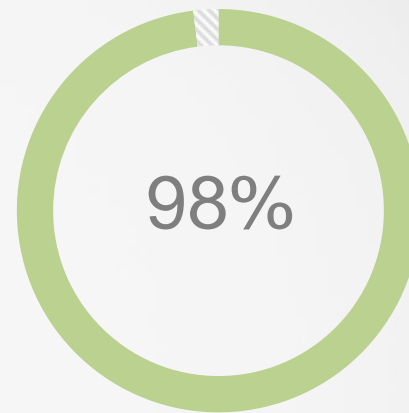
Capture rate

High capture rate for 1~6 lanes.



ANPR rate

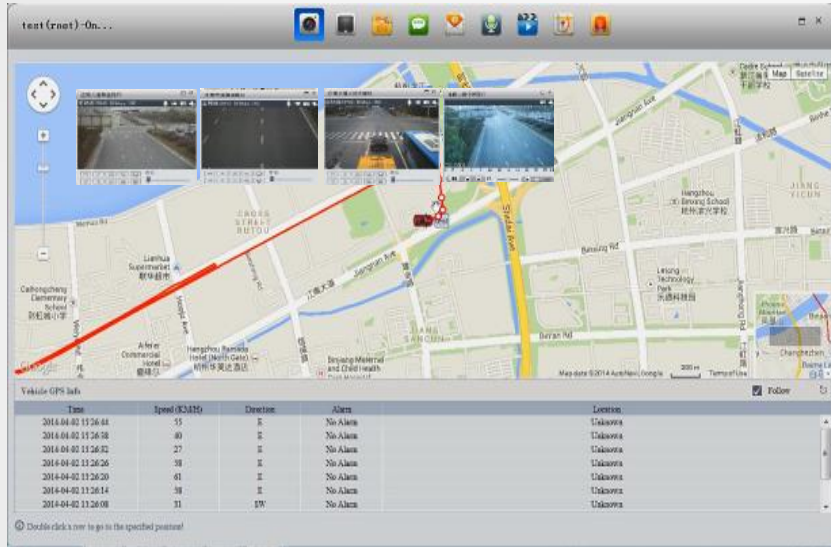
Achieve 90% recognition rate of 60 countries.



Measure accuracy

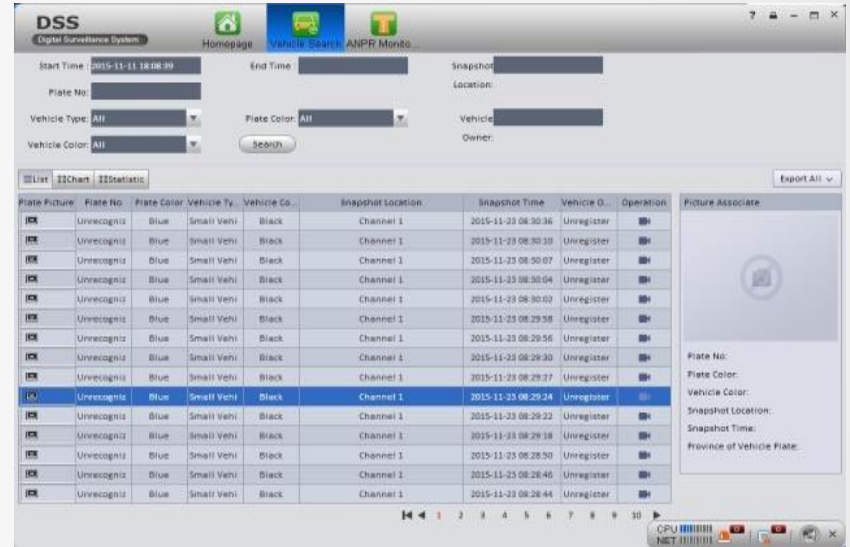
± 2 km/h (< 100km/h)
 $\pm 2\%$ (>100km/h)

Business on 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.

Speed Enforcement

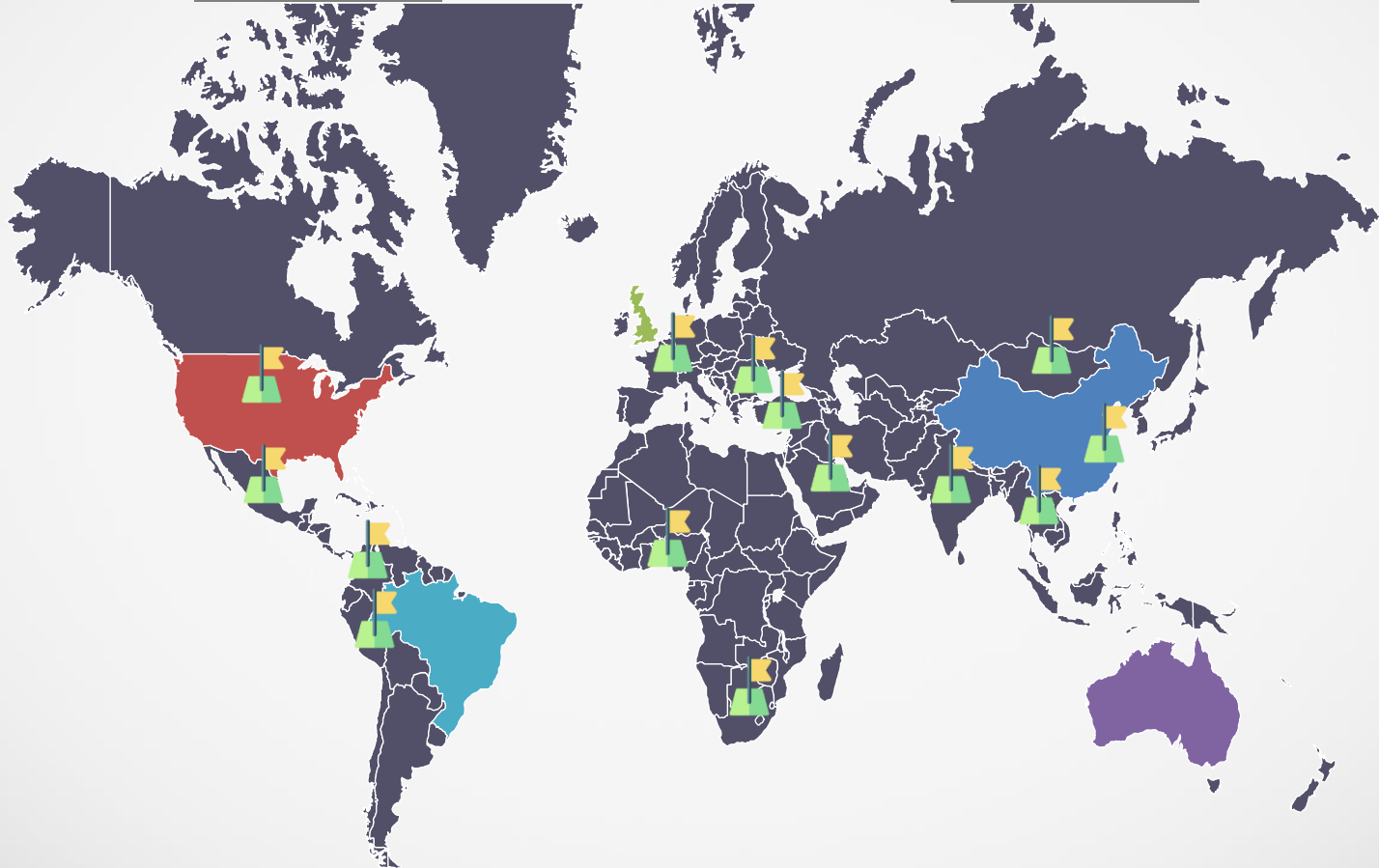
Dahua Speed Enforcement System is mainly applied on over speed or extreme low speed detection on highway or city express way, and deliver clear photographic evidences for punishment system.

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.*

Overseas Market



Certification

 CERPASS TECHNOLOGY (SUZHOU) CO., LTD Report No. SEC2130598 

EMC TEST REPORT

Authorized under Declaration of Conformity

According to



| | |
|-----------------------------|--------------------------------------|
| EN 55022:2010 | EN 55024 : 2010 |
| EN 61000-3-2: 2006/A2: 2009 | EN 61000-3-4: 2011 |
| EN 61000-3-3: 2008 | IEC 61000-4-2 : 2008 |
| | IEC 61000-4-3 : 2008+A1:2007+A2:2010 |
| | IEC 61000-4-4 : 2012 |
| | IEC 61000-4-5 : 2005 |
| | IEC 61000-4-6 : 2008 |
| | IEC 61000-4-8 : 2009 |
| | IEC 61000-4-11 : 2004 |

Applicant : Zhejiang Dahua Vision Technology Co., Ltd.
Address : The 1st floor, building F, No.1199 Bin'an road, Changhe Street, Binjiang District, Hangzhou, P.R. China
Equipment : Speed Measuring System
Model No. : HWS800A, DH-HWS800A

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Cerpass Technology (Suzhou) Co., Ltd. Issued Date : July 01, 2013
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 CERPASS TECHNOLOGY CORP Report No. SEFD130599 

FCC DOC TEST REPORT

According to

47 CFR, Part 2, Part 15, CISPR PUB. 22

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FCC

 Schweizerischer Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Federal Institute of Metrology METAS

Certificate of Conformity No 258-26612

Object : System for monitoring speed with digital imaging Dahua Technology DH-HWS800A

Applicant : Zhejiang Dahua Technology Co., Ltd
Binjiang District, Hangzhou (CN)

Requirements : International Recommendation OIML R91
International Document OIML D11 (ed. 2013)
FDJP ordinance on measurement systems for speed checks and red traffic light monitoring (VAG) SR 941.281

Confirmation : The measuring equipment corresponds to the applicable recommendations of OIML R91 and the requirements of the documents OIML D11.
Basis of this confirmation: Test report N° 258-25870-1

Date of Examination : February – March 2017
3003 Bern-Wabern, 14 March 2017

For the Examination : 
Eric Challengy

Verification and Tests : 
Walter Fabel, Head of Department

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OIML_R91

Passed Certification: CE/FCC, OIML_R91