NETAVIS iCAT

Number Plate Recognition

- **Already installed with every NETAVIS Observer**
- **No extra server necessary**

iCAT Number Plate Recognition is a NETAVIS iCAT module that enables the detection of vehicle number plates and is seamlessly integrated with the rest of NETAVIS Observer. It supports number plates from over 60 countries, including all of Europe, Russia and the Arabian Peninsula. iCAT Number Plate Recognition is easy to configure and can be used in vehicle entry, parking, and free flow scenarios. It provides number plate data for a variety of security and business applications like access control, customer analysis and many more.

NPR List Management

The simple yet powerful NPR list management enables a broad set of applications. Arbitrary lists can be configured and allow for more applications than black- and white-lists. The lists can be managed within NETAVIS Observer but it is also possible to import and export number plates as text-, CSV- and Excel-files.

NPR Events

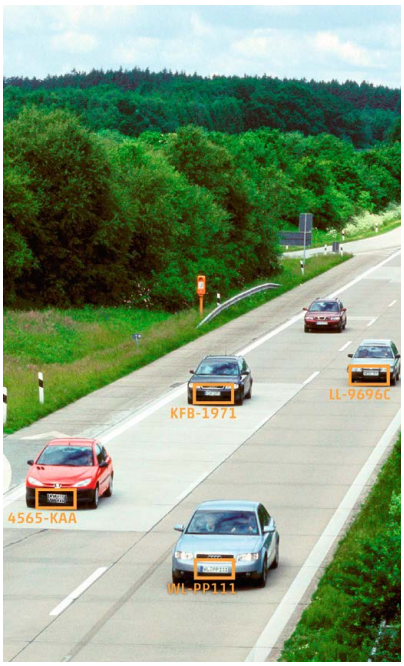
As iCAT Number Plate Recognition is seamlessly integrated with the rest of NETAVIS Observer all of Observer's powerful event capabilities can also be used with NPR events.
Finding and exporting video sequences of particular number plates even with wildcards is easy. Exporting multiple video sequences for groups of plates is also easy to handle, the same applies to data file exports for NPR statistics.
Most importantly, real time actions can be triggered by individual number plates or by plates included or excluded in a NPR list for a maximum of added value.

Supported Scenarios

- Slow: Limited to one number plate recognition every three seconds this product is designed for slow speed scenarios like entry gates.
- Fast: Developed for free flow scenarios this product can detect number plates on fast moving vehicles as on streets.

Benefits

- High accuracy of detection
- Enhanced efficiency by freely definable automatic actions upon NPR detections as triggers
- High flexibility due to an unlimited number of license plate lists for multiple purposes
- Search and filter functions with wildcards for easy management
- Export of NPR detections in handy file formats for statistical use
- Integrated NPR information within Observer empowers security operators



Supported Countries

Europe: EU countries, Armenia, Azerbaijan, Georgia, Russia, Turkey, incl. Serbian plates with special characters
Arabian Peninsula: Bahrain, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates, Yemen
North Africa: Algeria, Egypt, Ethiopia, Libya, Morocco, Sudan, Tunisia
Southeast Asia: Indonesia, Laos, Malaysia, Myanmar, Singapore, Thailand, Vietnam, Pakistan

Hardware & Licensing

For iCAT Number Plate Recognition only Intel CPUs are supported. The performance requirements depend on a variety of factors (high speed vs. slow speed scenario, camera resolution, etc.) which have to be clarified in the presales stage. iCAT Number Plate Recognition is licensed per lane whereby currently a single lane is supported per camera. The licenses require a hardware dongle in combination with a corresponding NETAVIS Observer license.

SUPPORTED SCENARIOS	
Fast	Yes
Slow (1 detection every 3 seconds)	Yes
IMAGE REQUIREMENTS	
Plate width	Between 100 and 200 pixels (or between 50 and 100 pixels for two-row plates)
Character height for Latin characters	16 pixels
Character height for Arabic characters	20 pixels
Angle tolerance during learning period	+/- 20 degrees
Angle tolerance after learning period	+/- 5 degrees
NUMBER PLATE CHARACTERISTICS	
One-row plates	Yes
Two-row plates	Yes
Front plates of vehicles	Yes
Back plates of vehicles	Yes
LICENSING	
Hardware Dongle	Yes
VIRTUALIZATION	
WMWare	Yes (USB passthrough required)
Virtual Box	No