

# ANPR Application

## Core Features

Watch and Search events  
Black & White lists; Reactions

A decorative orange ribbon graphic that starts as a horizontal bar at the bottom, then curves upwards and to the right, ending in a rounded, tail-like shape.

# Intro

This document introduces **ANPR application core features**:

- watch current events as they occur
- search through collected events
- export search results
- set up reactions for every, whitelisted and blacklisted LPs:
  - save to SD card
  - send to NVR
  - open barrier
- manage Black and White lists

Latest edition always available as [PDF](#) and [Power Point](#)

Last updated **2018-05-31**

[Other useful resources](#)

# Application Core Features

## Watching events

numberok  
EDGE  
NumberOK EDGE  
License Plate Recognition application Version 5.1.17.637.286

Events Search Settings

This mode is provided for setup purposes only.  
It is not intended for continuous monitoring as video process affects camera and application performance a lot.

Date / Time	Plate	List	Action	Photo	Country
05/07/2017 15:14:19	VSnn5CDI	Not in list	Saved to SD Sent to NVR		No Country
05/07/2017 15:14:16	VS005CD	Not in list	Saved to SD Sent to NVR		SRB
05/07/2017 15:00:38	EK86	Not in list	Saved to SD Sent to NVR		DEU
05/07/2017 15:00:33	RZELW90	Not in list	Saved to SD Sent to NVR		POL
05/07/2017 15:00:31	RPZY325	Not in list			
05/07/2017 15:00:15	RZ3958J	Not in list			
05/07/2017 15:00:02	RZ24791	Not in list			
05/07/2017 14:59:58	RZE2CV9	Not in list			
05/07/2017 14:59:55	RZ9440F	Not in list			
05/07/2017 14:59:54	3R9440F	Not in list			

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05/07/2017 15:14:19 VSnn5CDI Not in list Saved to SD Sent to NVR No Country

05/07/2017 15:14:16 VS005CD Not in list Saved to SD Sent to NVR SRB

05/07/2017 15:00:38 EK86 Not in list Saved to SD Sent to NVR DEU

05/07/2017 15:00:33 RZELW90 Not in list Saved to SD Sent to NVR POL

### Events watch

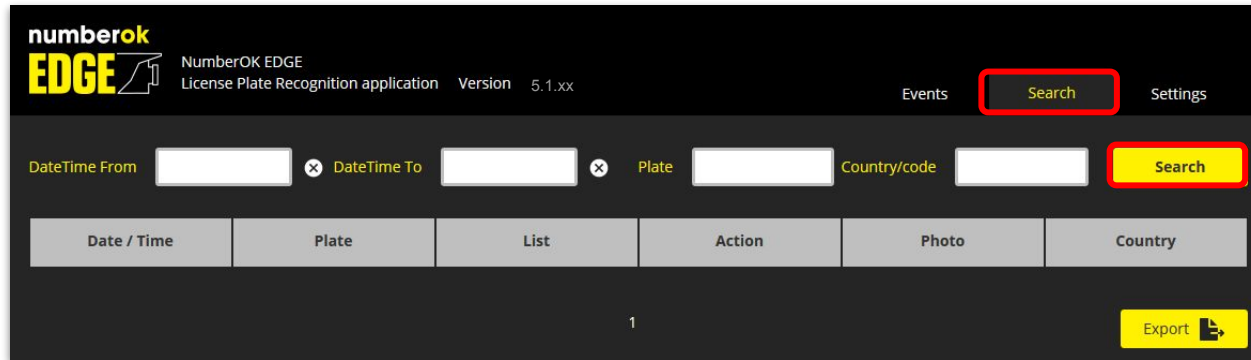
Click camera/plus icons to reveal video stream.

Please, avoid permanent monitoring as video streaming affects overall system performance. Hiding video just saves some space on the screen but it doesn't stop video stream consumption. Prolonged monitoring affects the camera performance even more if accessed from multiple browsers simultaneously.

Video playback would stop in approximately 20 min. It is not a malfunction but rather a measure to save resources. The application on camera will keep on recognizing license plates.

# Application Core Features

## Search events




numberok  
**EDGE** NumberOK EDGE  
License Plate Recognition application Version 5.1.xx

Events **Search** Settings

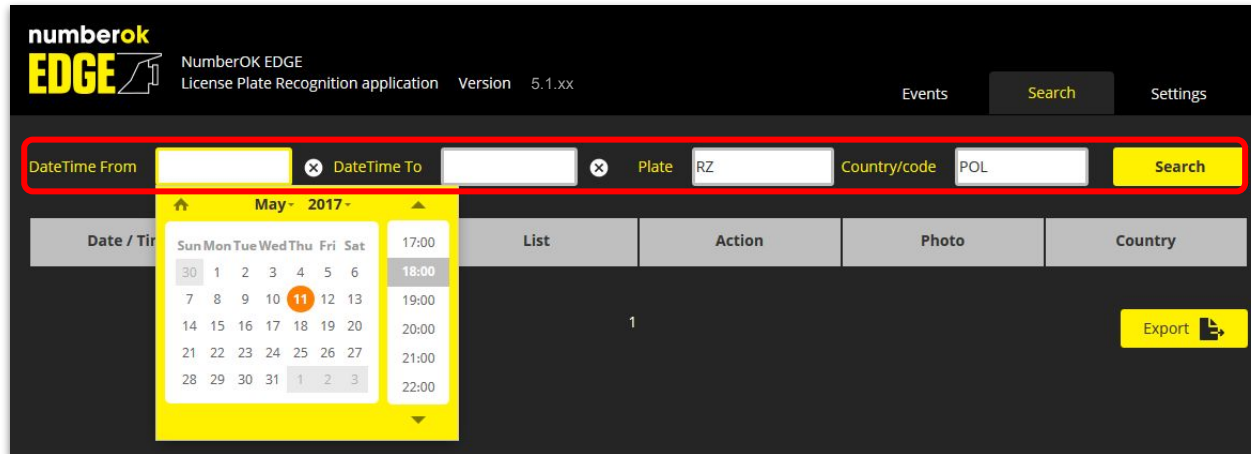
DateTime From  × DateTime To  × Plate  Country/code  **Search**

Date / Time	Plate	List	Action	Photo	Country
1					

Export 

Click Search to get all registered ANPR events.

Camera stores 1000 latest events for storage saving. Please employ Integration options ([PDF](#), [Power Point](#)) to save more events externally.



numberok  
**EDGE** NumberOK EDGE  
License Plate Recognition application Version 5.1.xx


Events **Search** Settings

DateTime From  × DateTime To  × Plate RZ Country/code POL **Search**

May - 2017 -

Sun	Mon	Tue	Wed	Thu	Fri	Sat	17:00
30	1	2	3	4	5	6	18:00
7	8	9	10	11	12	13	19:00
14	15	16	17	18	19	20	20:00
21	22	23	24	25	26	27	21:00
28	29	30	31	1	2	3	22:00

Date / Time	List	Action	Photo	Country
1				

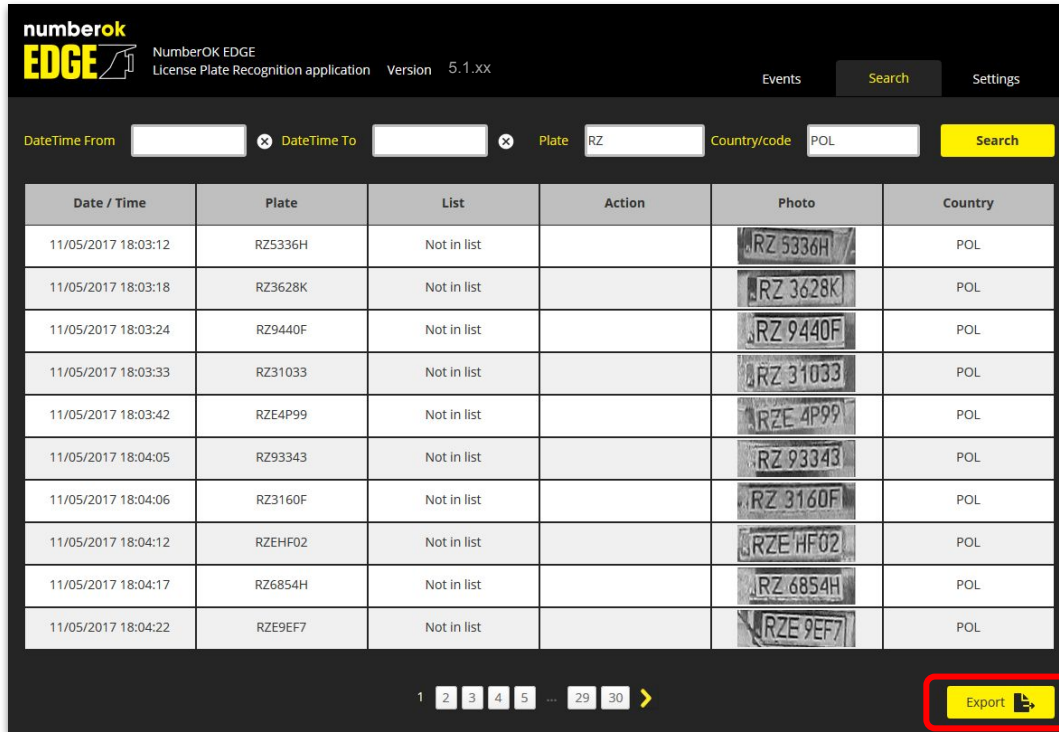
Export 

Use filters to narrow search down:


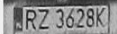
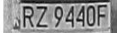
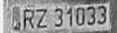
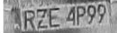





- DateTime from/to
- Plate: every plate number that contains given sequence will be found
- Country code: use country code as per [ISO 3166-1 alpha-3](#) (three letters code, e.g. POL, GBR, UKR, FRA...)

# Application Core Features

## Exporting search results



The screenshot shows the NumberOK EDGE application interface. At the top, there is a navigation bar with 'Events', 'Search', and 'Settings' tabs. Below the navigation bar, there are search filters for 'Date/Time From', 'Date/Time To', 'Plate' (set to 'RZ'), and 'Country/code' (set to 'POL'). A 'Search' button is visible. The main area displays a table of search results with columns for Date / Time, Plate, List, Action, Photo, and Country. At the bottom right, there is an 'Export' button highlighted with a red box.

Date / Time	Plate	List	Action	Photo	Country
11/05/2017 18:03:12	RZ5336H	Not in list			POL
11/05/2017 18:03:18	RZ3628K	Not in list			POL
11/05/2017 18:03:24	RZ9440F	Not in list			POL
11/05/2017 18:03:33	RZ31033	Not in list			POL
11/05/2017 18:03:42	RZE4P99	Not in list			POL
11/05/2017 18:04:05	RZ93343	Not in list			POL
11/05/2017 18:04:06	RZ3160F	Not in list			POL
11/05/2017 18:04:12	RZEHF02	Not in list			POL
11/05/2017 18:04:17	RZ6854H	Not in list			POL
11/05/2017 18:04:22	RZE9EF7	Not in list			POL

Search results can be exported.

Notes on images associated with events:

- 1) images can be retrieved via physical access to SD card;
- 2) images are sent along with event data under JSON over HTTP integration method;
- 3) Web API also delivers stored images file names.

Please, refer to Application Integration guide for more details: [PDF](#) or [Power Point](#)

# Application Core Features

## Exported search results (csv)

Search results are exported into a csv file with a pretty simple structure.

TS	LPR	COUNTRY	LIST	ACTION
2017-05-16 12:31:34 UTC	AI0719AT	UKR	Not in list	
2017-05-16 12:30:33 UTC	AA92130A	RUS	Not in list	
2017-05-16 12:30:25 UTC	AI0719AT	UKR	Not in list	
2017-05-16 12:29:32 UTC	AA9606BT	UKR	Not in list	
2017-05-16 12:29:26 UTC	AA4878IK	UKR	Not in list	
2017-05-16 12:28:55 UTC	BC3218BO	UKR	Not in list	
2017-05-16 12:28:21 UTC	AA7381HK	UKR	Not in list	
2017-05-16 12:28:01 UTC	BA9587AC	UKR	Not in list	
2017-05-16 12:27:35 UTC	AA0980OA	UKR	Not in list	
2017-05-16 12:26:41 UTC	D0370123	PRT	Not in list	

Note that TS (timestamp) is specified as UTC (Coordinated Universal Time).

Simplified, UTC is equivalent to GMT (Greenwich Mean Time) and never observes DST (Daylight Saving Time)

# Application Core Features

## Reactions, Black and White lists

numberok  
EDGE

NumberOK EDGE  
License Plate Recognition application Version 5.1.xx

Events Search Settings

Event	Reaction 1	Reaction 2
Any license plate	No action	No action
Black list	No action	No action
White list	No action	No action

Black list

NZ158DA	Delete
AA1239AA	Delete
AA1241AA	Delete
AA1243AA	Delete
AA1250AA	Delete
AA1250AB	Delete
AA1250AC	Delete
AA1250AE	Delete
AA1250AH	Delete
AA1250AI	Delete
AA1250AK	Delete
AA1250AM	Delete
AA1250AO	Delete

Input Plate Number Input Input

Import from Import from

Save setting

Set up 1 or 2 reactions that will fire upon

- any ANPR event or
- black or white listed plate number detection

Available reactions are:

- Save to SD card
- Send to NVR
- Open barrier

Populate Black and White lists **one by one** or **import** in bulk. Each list capacity is limited to 2000 entries.

List source file is a plain text file, one line per plate number; must contain empty line in the end. **It is recommended that you import updated lists from external file rather than manage the list in the app.**

**Save settings** every time.

# Useful resources

Next step	<b>Application Integration</b> as <a href="#">PDF</a> or <a href="#">Power Point</a>
Product page	<a href="https://www.hanwha-security.eu/business-security-products/xno-6120rfnp/">https://www.hanwha-security.eu/business-security-products/xno-6120rfnp/</a>
Product wiki	<a href="http://ff-group.org/hanwha">ff-group.org/hanwha</a>
Installation Checklist	PDF: <a href="https://goo.gl/v29ZTW">https://goo.gl/v29ZTW</a>
ANPR Application quick access link template	<a href="http://&lt;IP&gt;/home/setup/opensdk/html/NumberOkEdgeHanwha/index.html?AppName=NumberOkEdgeHanwha">http://&lt;IP&gt;/home/setup/opensdk/html/NumberOkEdgeHanwha/index.html?AppName=NumberOkEdgeHanwha</a>
Tech support contacts	<a href="https://www.hanwha-security.eu/support/support-faqs/">https://www.hanwha-security.eu/support/support-faqs/</a>
Online tools	<a href="https://www.hanwha-security.eu/online-tools/">https://www.hanwha-security.eu/online-tools/</a>
More resources	<a href="https://www.hanwha-security.eu/support/">https://www.hanwha-security.eu/support/</a>