# Connecting Arteco LPR to Hanwha Techwin NVR

Network Video Recorders manufactured by Hanwha Techwin Techwin can be used in order to record and manage a plate archive.
To do so, you have to configure the camera with Arteco LPR app installed in the Hanwha Techwin NVR and follow the steps below described.

## NVR configuration

After configuring the camera in the NVR, it is required to set a plate text "listener" for that camera. In the NVR menu go to Setup → Device → Text → Device and configure the fields surrounded by red as pointed out below.



Set a name for the Device and select "Use check" = Use. Take note of the related port for that camera in the column "Port" (in the example above, the port is 7002).
Clicking on table row, a new configuration page will be opened in order to set the parameters of plate information accepted by the NVR. In the interface of picture below the camera has name "Plate Gr" and the check "Use of a device" = Use.

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This interface displays the NVR incoming port ("7002" for camera #2) and the information "Encoding type" = US-ASCII. This information has a starting character = "!" and ending character = "#" that must be configured as described below.



Click on "OK" in order to save these settings.

Now, in order to setup NVR for plate queries, go to Setup → Device → Text → Event, click on camera row displayed in the image below:

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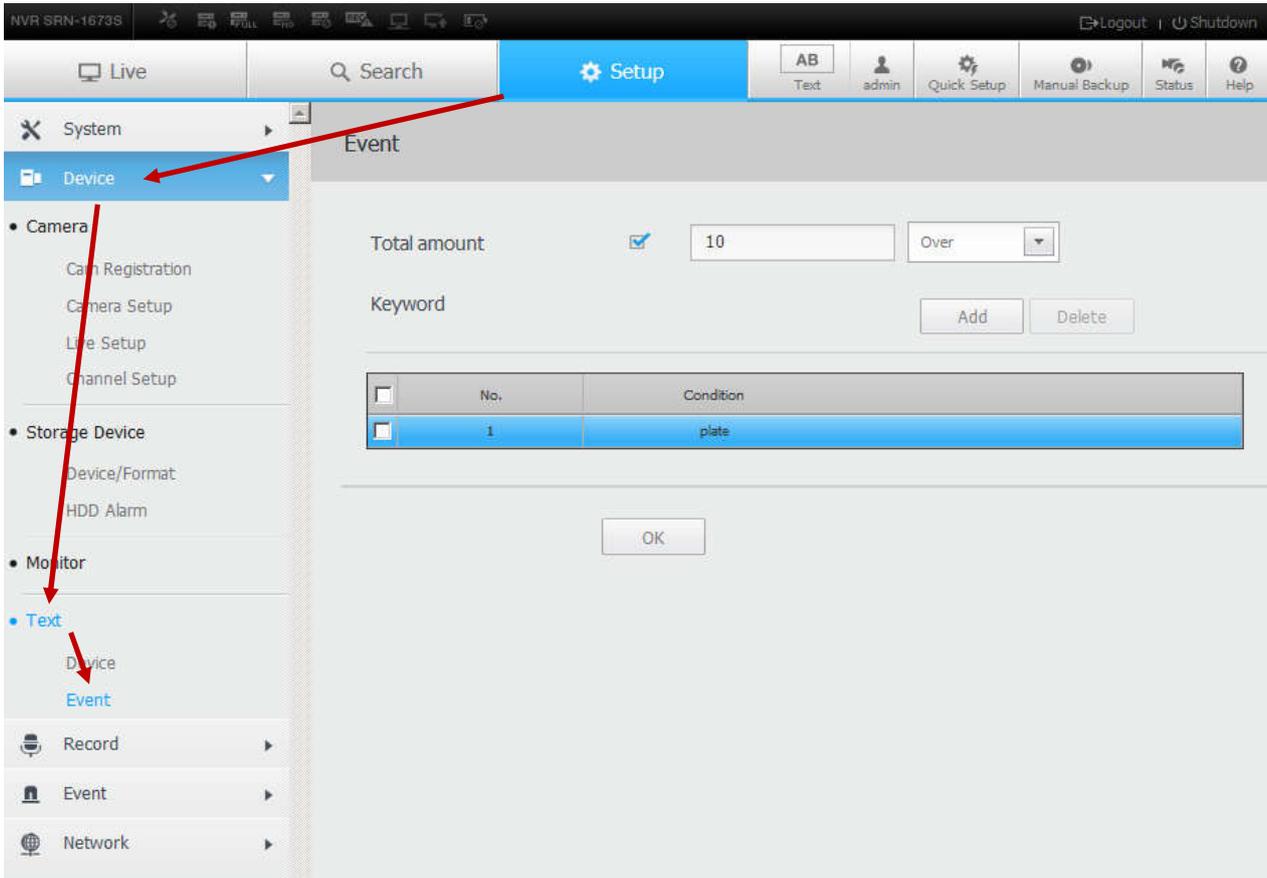


A new window will open and you will be allowed to define the keyword to be used for plate queries. As example we suggest to use "plate" as in the picture below:
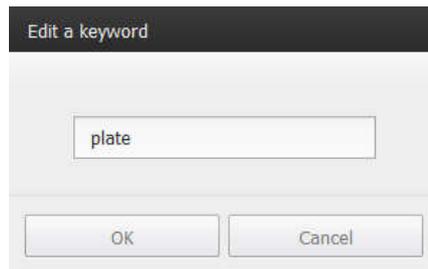


For both pages click on "OK" in order to save these settings.

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In order to set a proper pre-event timing go to Setup → Device → Record → Record Setup → NVR and set the Pre-event time = 10 sec as in the picture below. Doing so the NVR will begin to play the video recordings related to a plate query, right before the plate will enter in the camera field of view.

# ARTECO LPR configuration on Hanwha Techwin cameras

In order to enable the APP to send events to NVR, you have to go in the menu Setup → Event action setup and enable TCP for "Plate detected" event in order to receive all the plates read in the NVR.



Also set in TCP menu the "Hanwha Techwin NVR" protocol and set the same port provided from NVR in the page Setup → Device → Text → Device.

After changing parameters click on "Apply" and confirm the changes.

# NVR live display

When all previous settings are done, you will be able to receive plate readings in the Live display page of Hanwha Techwin NVR by enabling the "Text AB" menu as in the picture below.
In order to select which device plates you want to display, just click on the appropriate checks of "Text" menu as pointed out in the image below in the top right column.
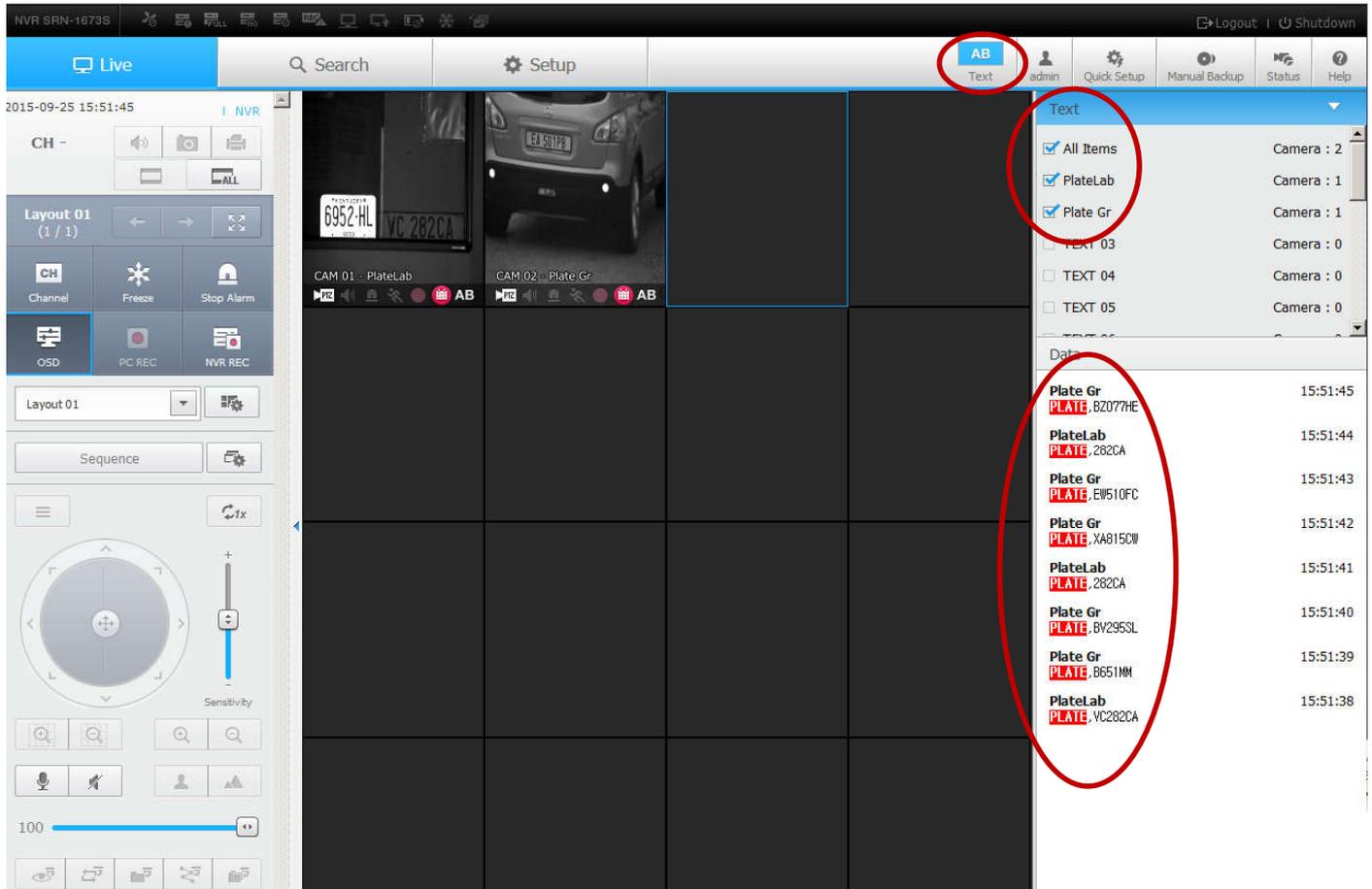


Plate data will flow and scroll in the right column, as the camera will send them to the NVR.

# NVR plate search queries

In order to retrieve a recorded plate, you need to know at least a part of the plate, "DE" for instance, and the NVR will return all plates fully or partially matching that string "DE", allowing you to play the related recorded video.
Go to menu Search → Text Search and click on "Text Search" as pointed in picture below:
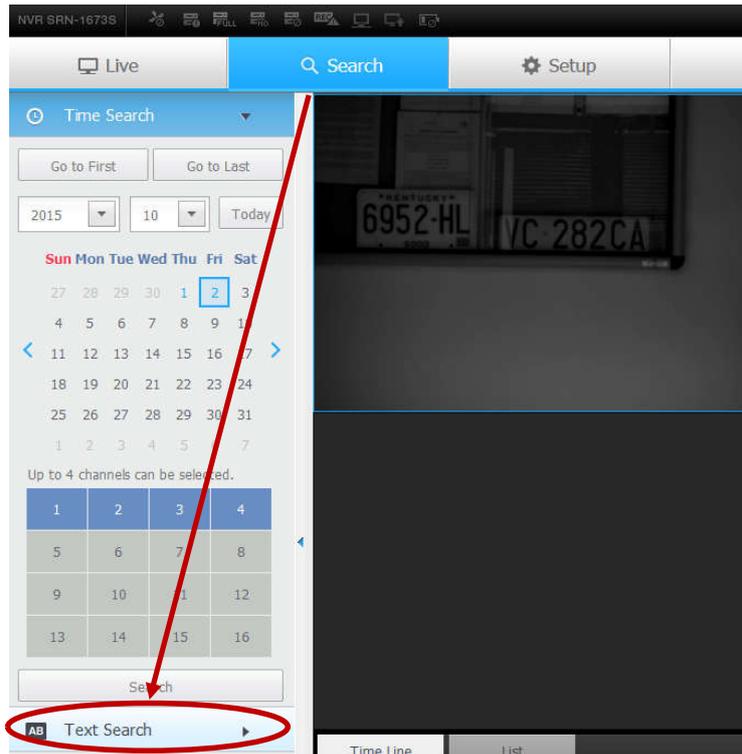


A new interface will open and you will be able to type the string of the plate you want to retrieve as represented in the image below.

Clicking on "Search" will query the plate to the NVR database that will return the list of plates partially or fully matching the string, as shown below.

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