EN

KEYDOM

INSTALLATION AND CONFIGURATION GUIDE

105927

ANPR CAMERA DS-TCGXXX SERIES

FAAC

Contents

1 • CAMERA INSTALLATION

- Camera installation height should be between 0,5m and 1,90m
- The view angle of the camera should be within 30 degrees to the ground (fig1.1)
- Camera angle at 1,9m should be around about 10-15 degrees.
- The view angle should be within 30 degrees to the path of movement (fig1.2)
- Install the camera to the front of the vehicle (recommended) (fig1.3)
- Licence plates tilt must be within +/- 5 degrees (fig1.4)

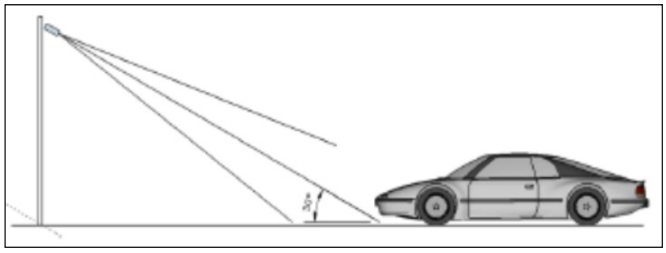


Fig. 1.1

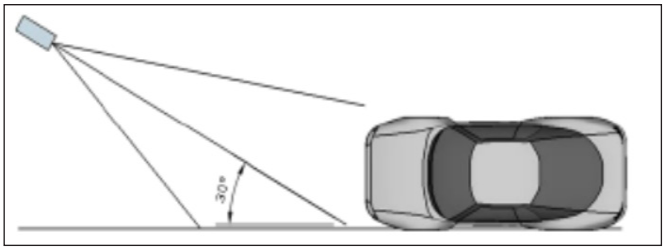


Fig 1.2

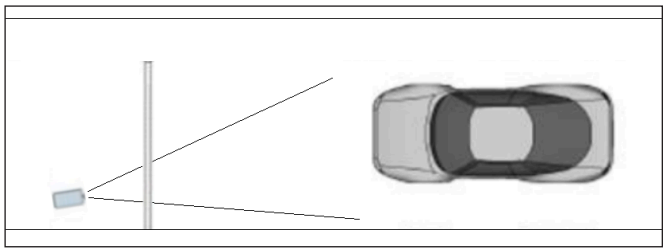
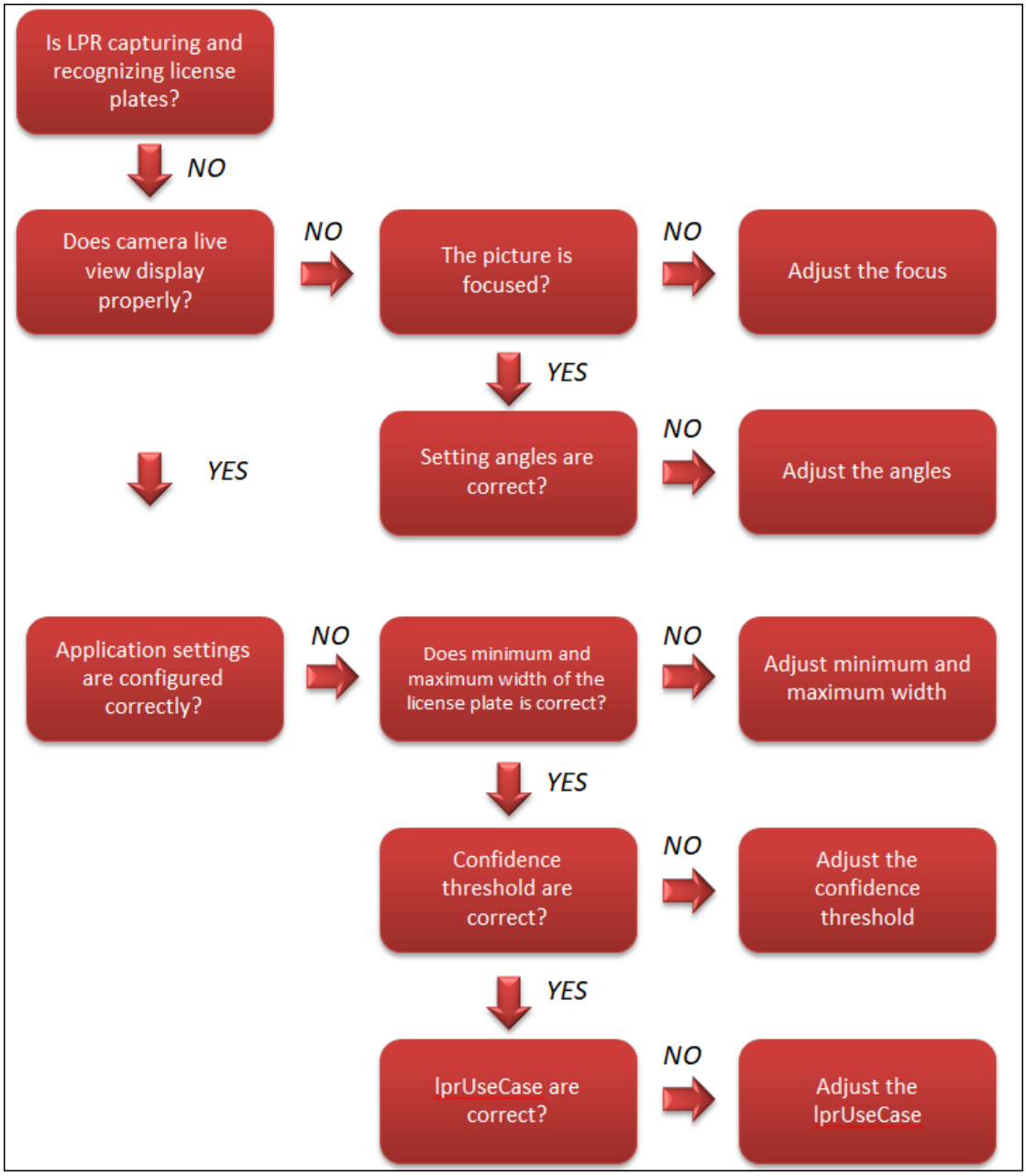


Fig 1.3

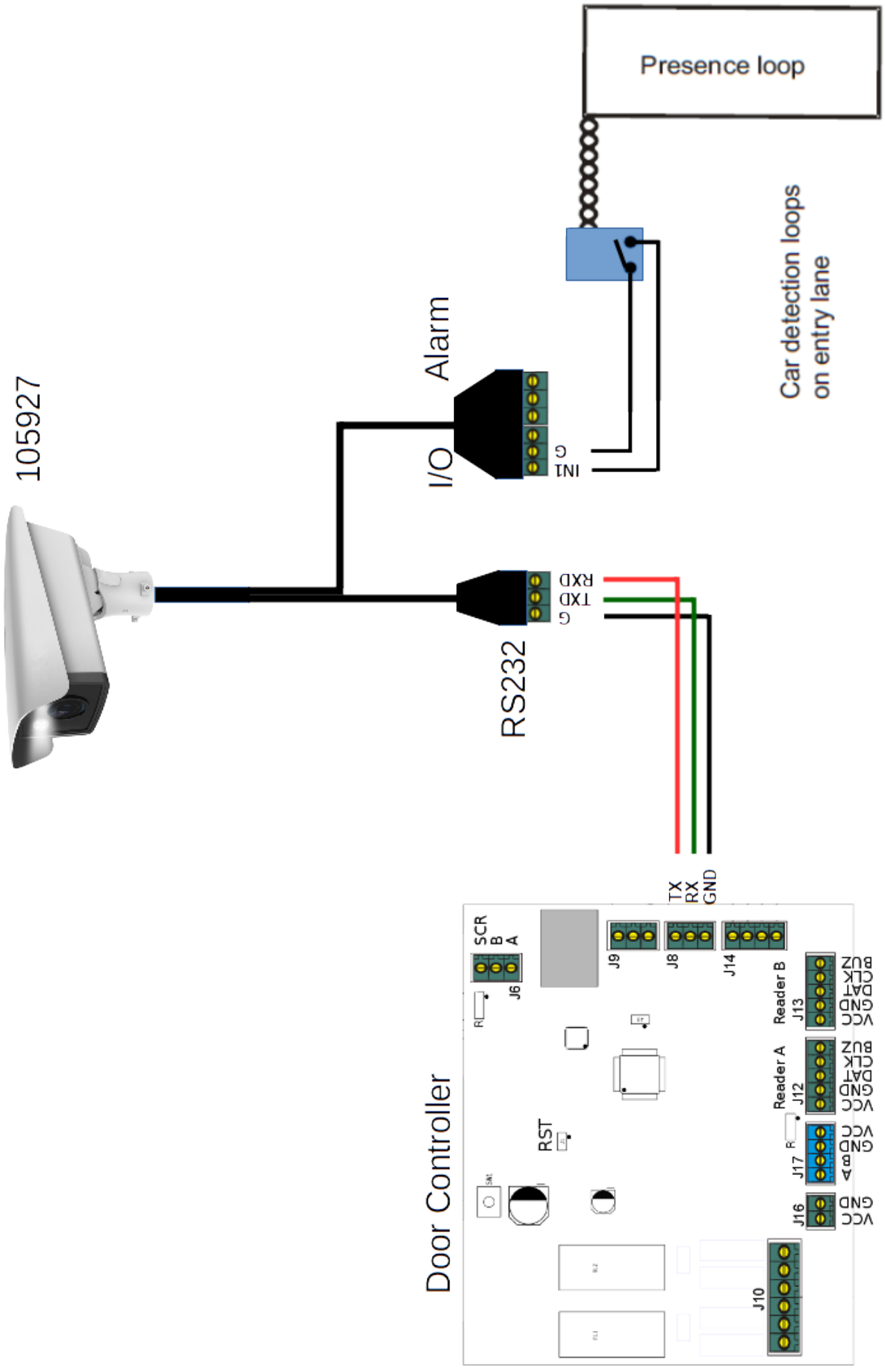
Fig 1.4

2 • FAQ

The troubleshooting flowchart is as follows, please refer to it for more details.



3 • CONNECTIONS



USE ONLY INTERNET EXPLORER TO CONFIGURE THE CAMERA

Default configuration:

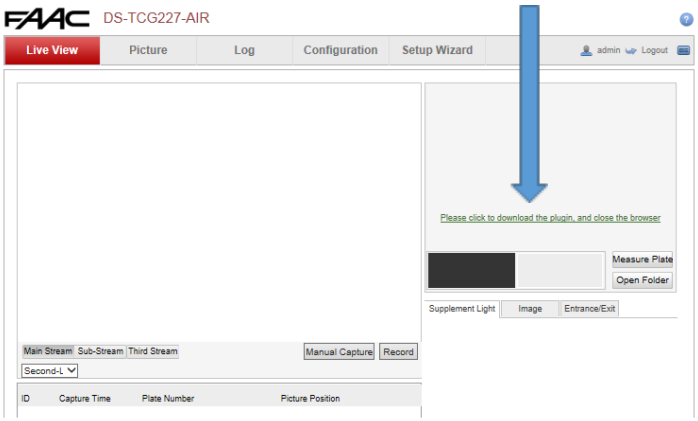
- IP Address: 192.168.1.64
- User Name: admin
- Password: admin1234

You will need to download the Plugin to see Live View.

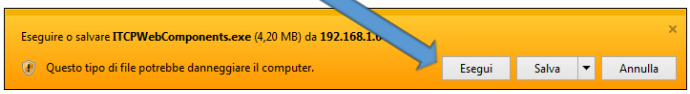
Click the link on the live view pane to download it and follow the on screen instructions.

To have Live View:

1. After login select: " Please click to download the plugin, and close the browser "

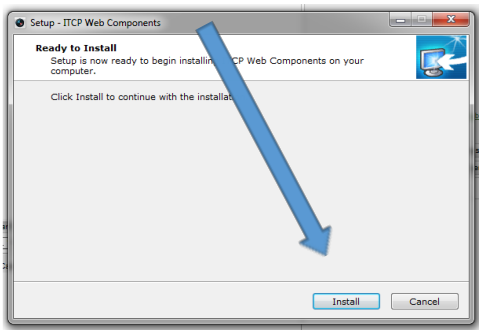


2. Then select "Run"

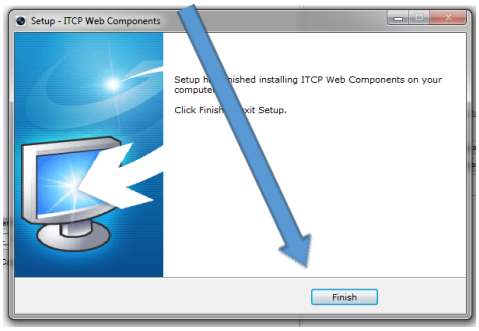


3. Then select "Run"

4. Then selct "Install"



5. Then "Finish"



6. Then "Allow"

7. Live View activated!!

Remember to close the browser during installation of the plugin.

Reopen the browser and click allow in the pop up.

4 • CONFIGURATION

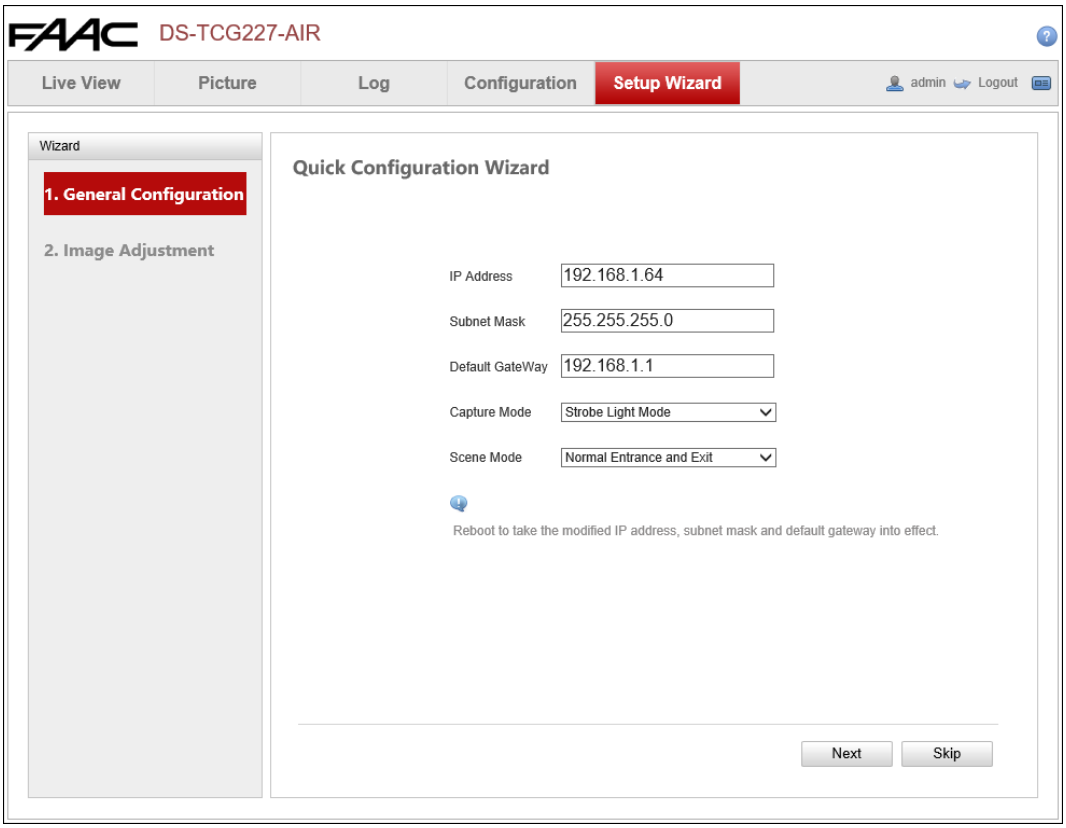
4.1 ANPR CAMERA SETUP

4.1.1 GENERAL CONFIGURATION

Steps:

1. **Go to Setup Wizard > General Configuration.**

   - Confirm the IP setting of the camera or make any changes needed.

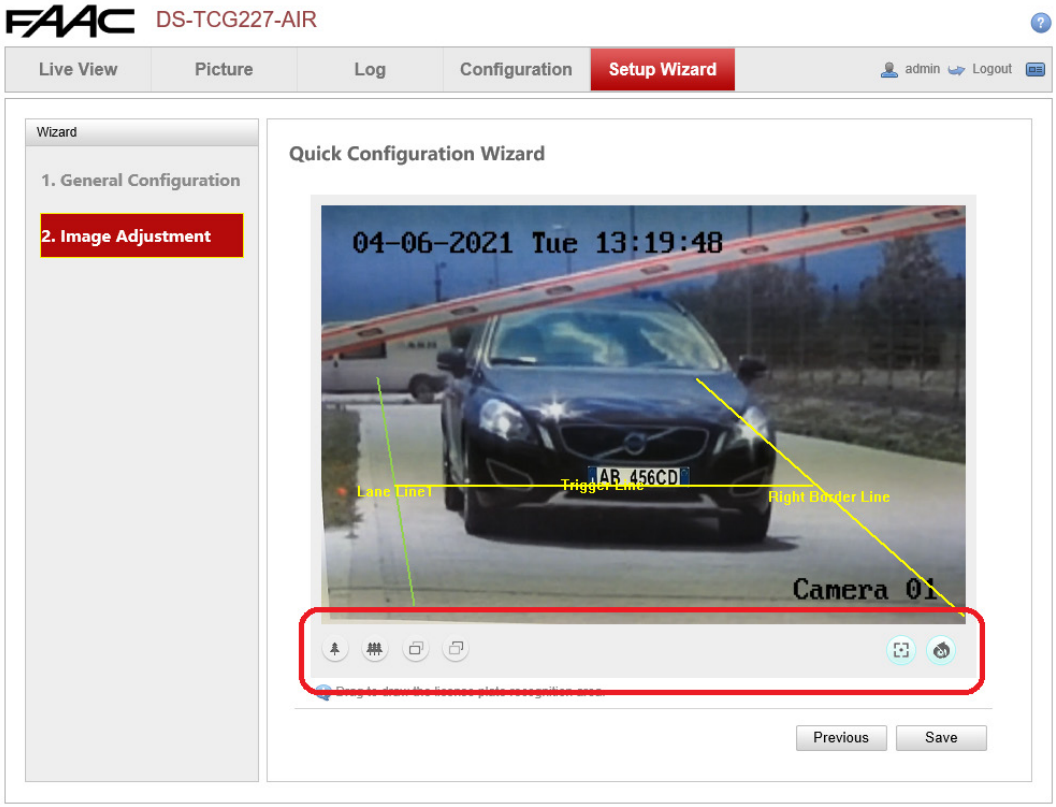


Select Next

4.1.2 IMAGE ADJUSTMENT

Park a Vehicle in the area of detection.

- Focus the camera to have a clear image of the detection area.
- Set up Lane and the trigger line by dragging the lines to suit the installation.



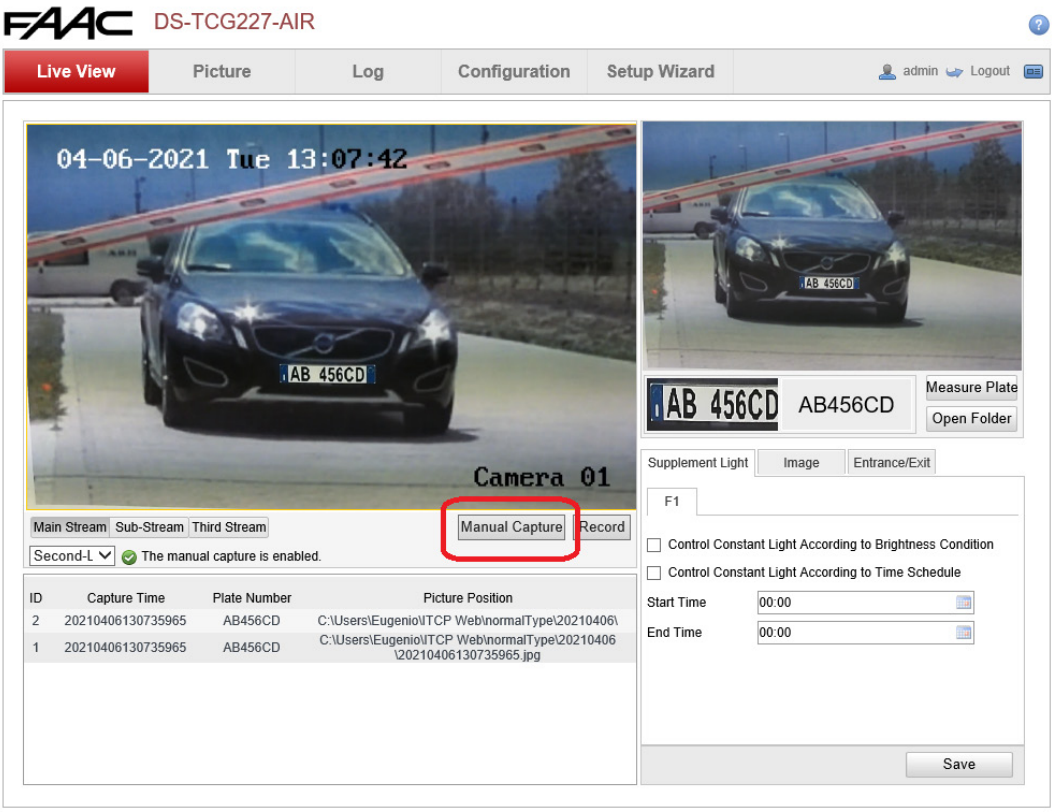
Use the Zoom and Focus buttons to set the image.

The **"lane line"** determines the margin of the left side of the reading area, position the line by dragging it across the screen.
The **"right border line"** marks the right-hand side of the reading area, position the line by dragging it across the screen.
The **"trigger line"** should be placed in the area where the number plate is present, when the car is stationary. Position the line by dragging it across the screen.

- Save Change

You will then be brought to live view

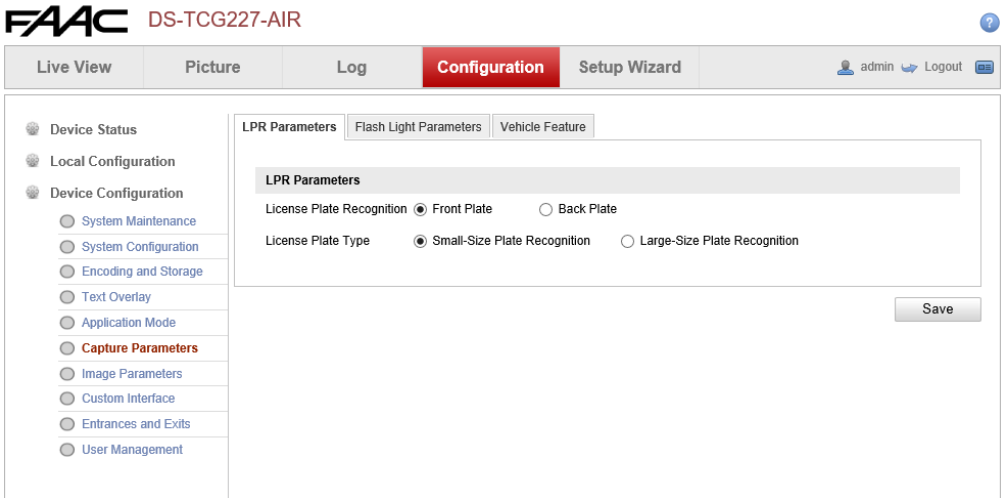
Press Manual Capture to ensure you are getting a reading to confirm installation is correct.



If pressing "Manual capture" does not give a reading, check and repeat from point Image Adjustment Pag.8.

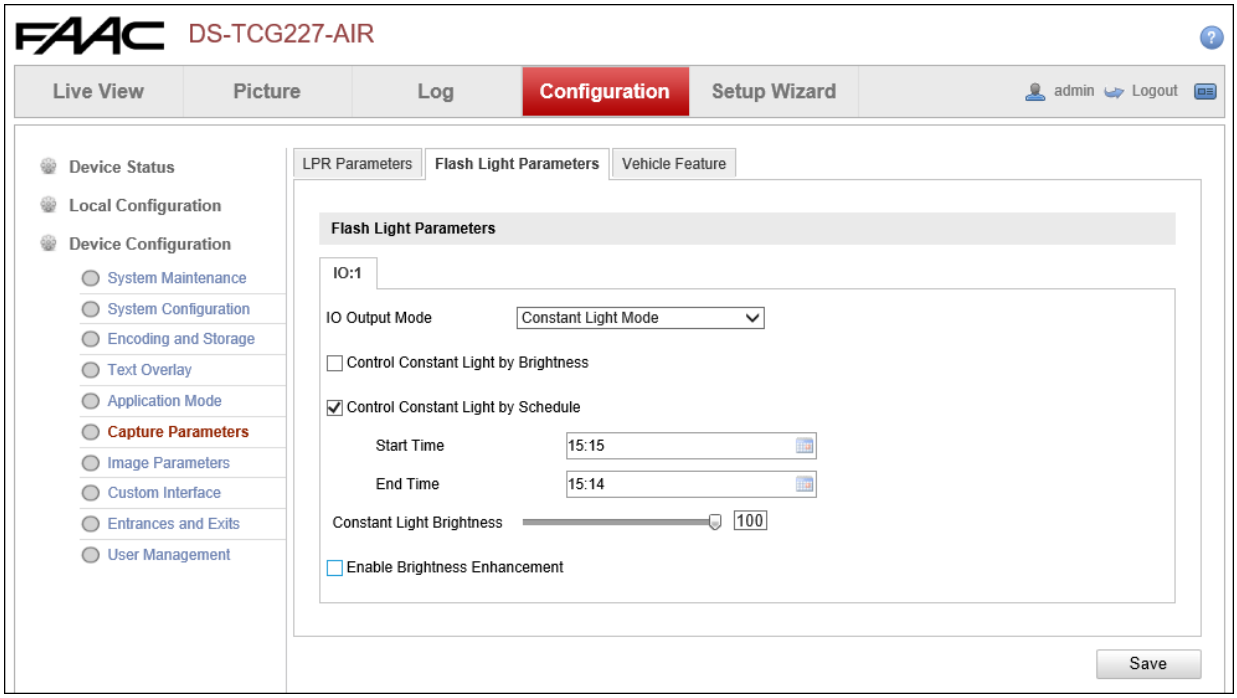
4.1.3 CONFIGURE IMAGE

Go to **Configuration** > **Device Configuration** > **Capture Parameters** > **LPR Parameters**
Set the type of number plate to be read, Front or Rear.



Click **Save** to save the settings.

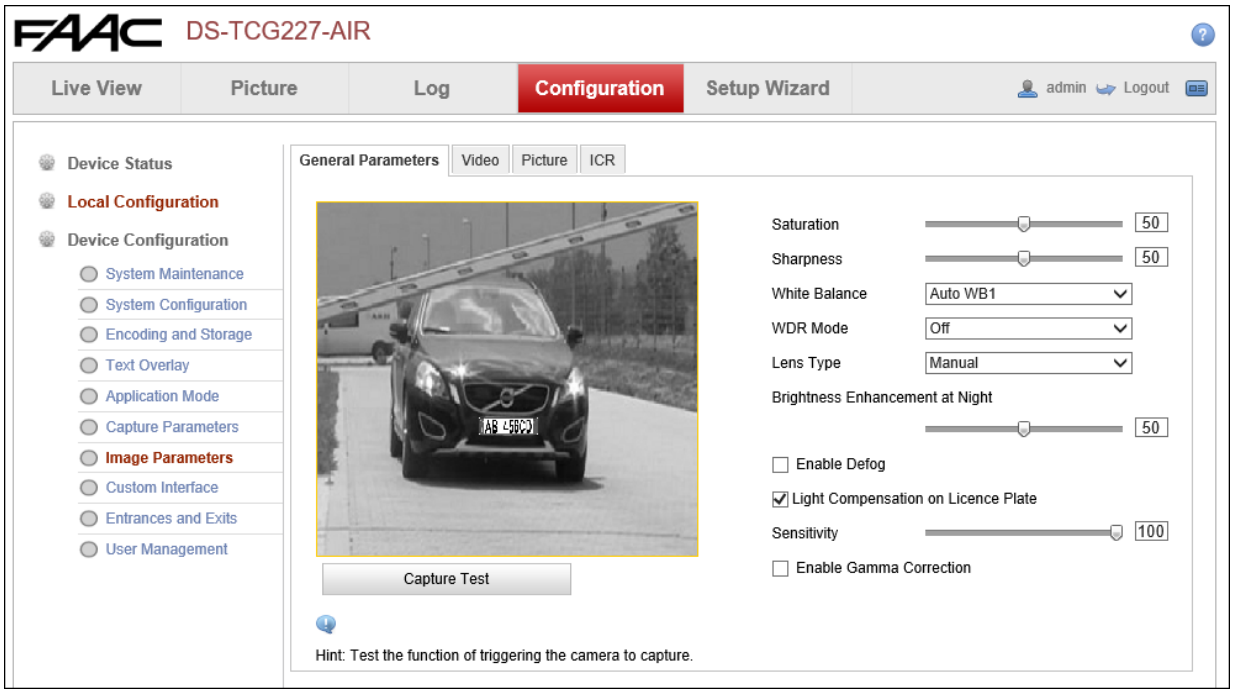
Go to **Configuration** > **Device Configuration** > **Capture Parameters** > **Flash Light Parameters**
Used to enable the infrared illuminator.



Enable Control Constant Light by Schedule.
Enter a time (as an example) to permanently enable the illuminator.
Set the **Constant Light Brightness** value to **100**.

Click **Save** to save the settings.

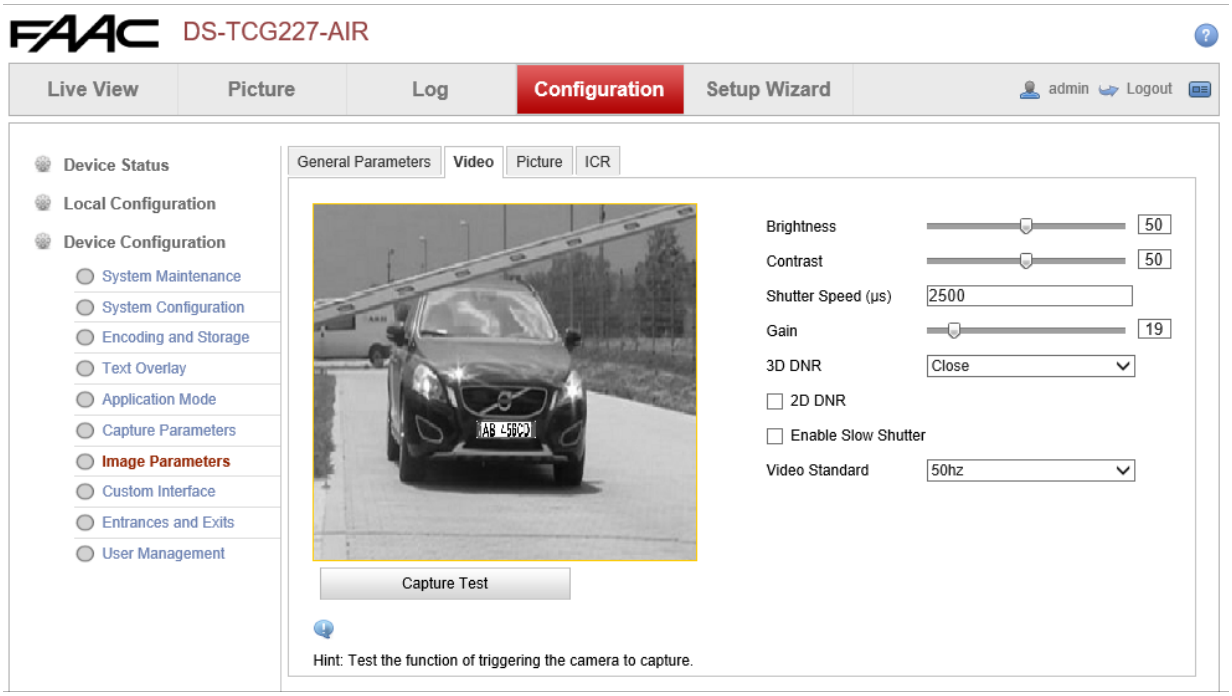
Go to **Configuration** > **Device Configuration** > **Image Parameters** > **General Parameters**



Enable **Light Compensation on License Plate**
Set the **Sensitivity** value to **100.**

Saving is automatic.

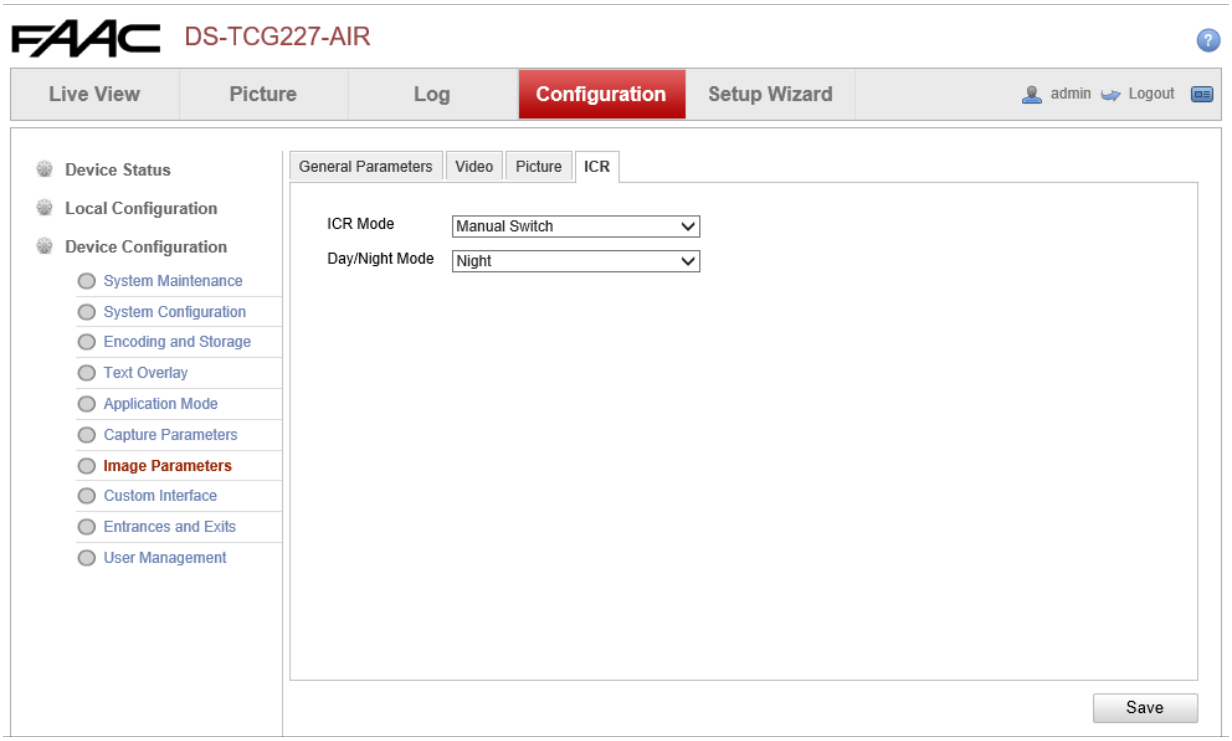
Go to **Configuration** > **Device Configuration** > **Image Parameters** > **Video**



Set the **Shutter Speed** value to **2500µs** and the **Gain** value to **19**.
Set the **3D DNR** value to **CLOSE**.

Saving is automatic.

Go to **Configuration** > **Device Configuration** > **Image Parameters** > **ICR**
ICR = (Infrared Cutfilter Removal)



Set the **ICR Mode** value to **Manual Switch**.
Set the **Day/Night Mode** value to **Night**.

Click **Save** to save the settings.

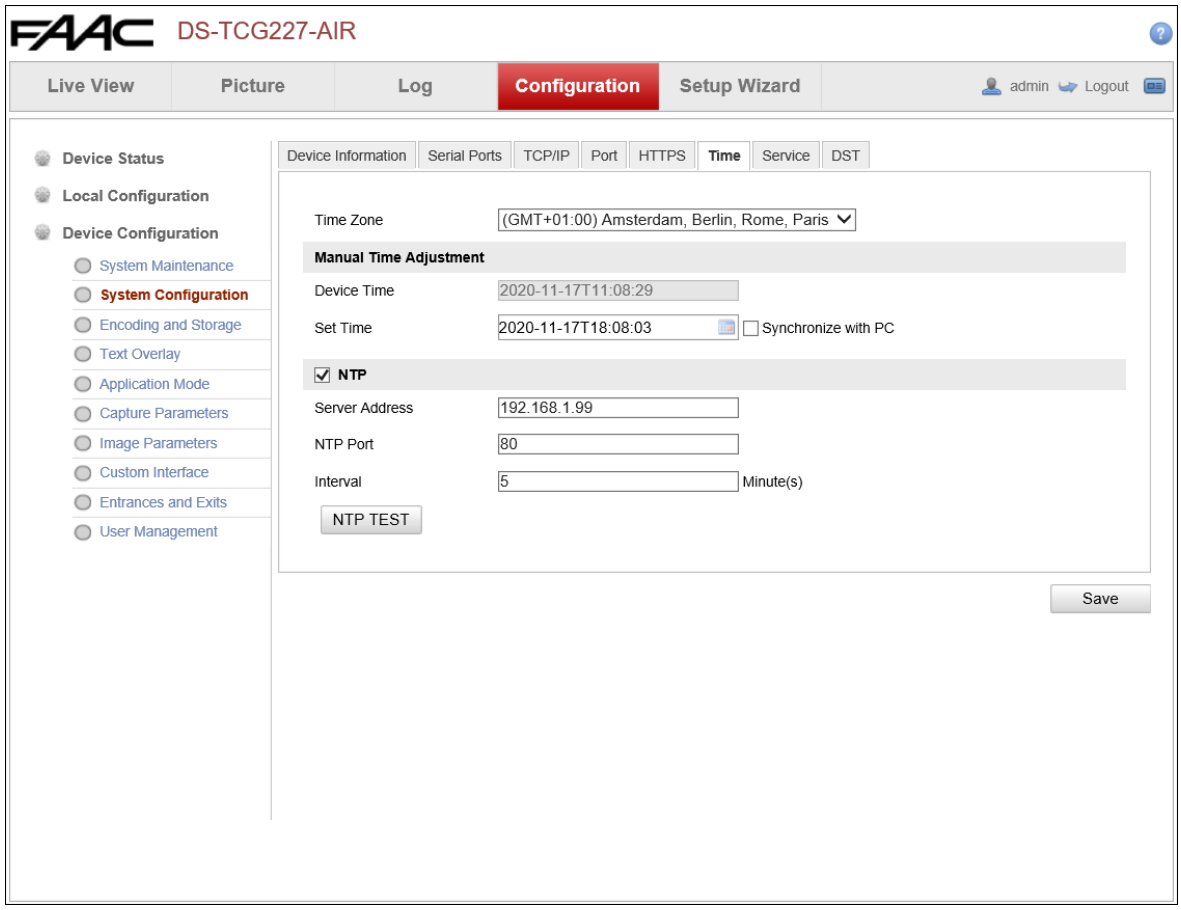
4.1.4 CONFIGURE TIME

As the saved images are recalled in Keydom according to time, it is important that the system minutes and seconds match.

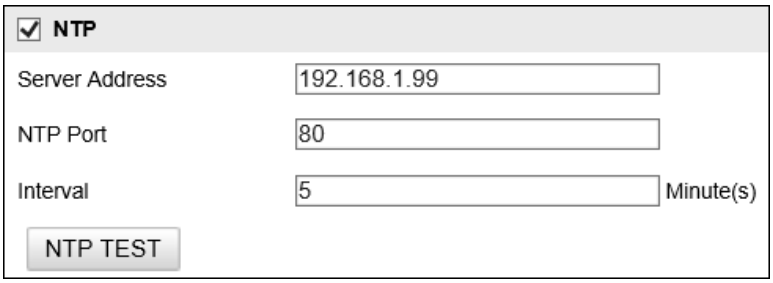
Steps:

1. Go to **Configuration** > **Device Configuration** > **System Configuration** > **Time**.

2. Select the Time Zone of your location from the drop-down menu.



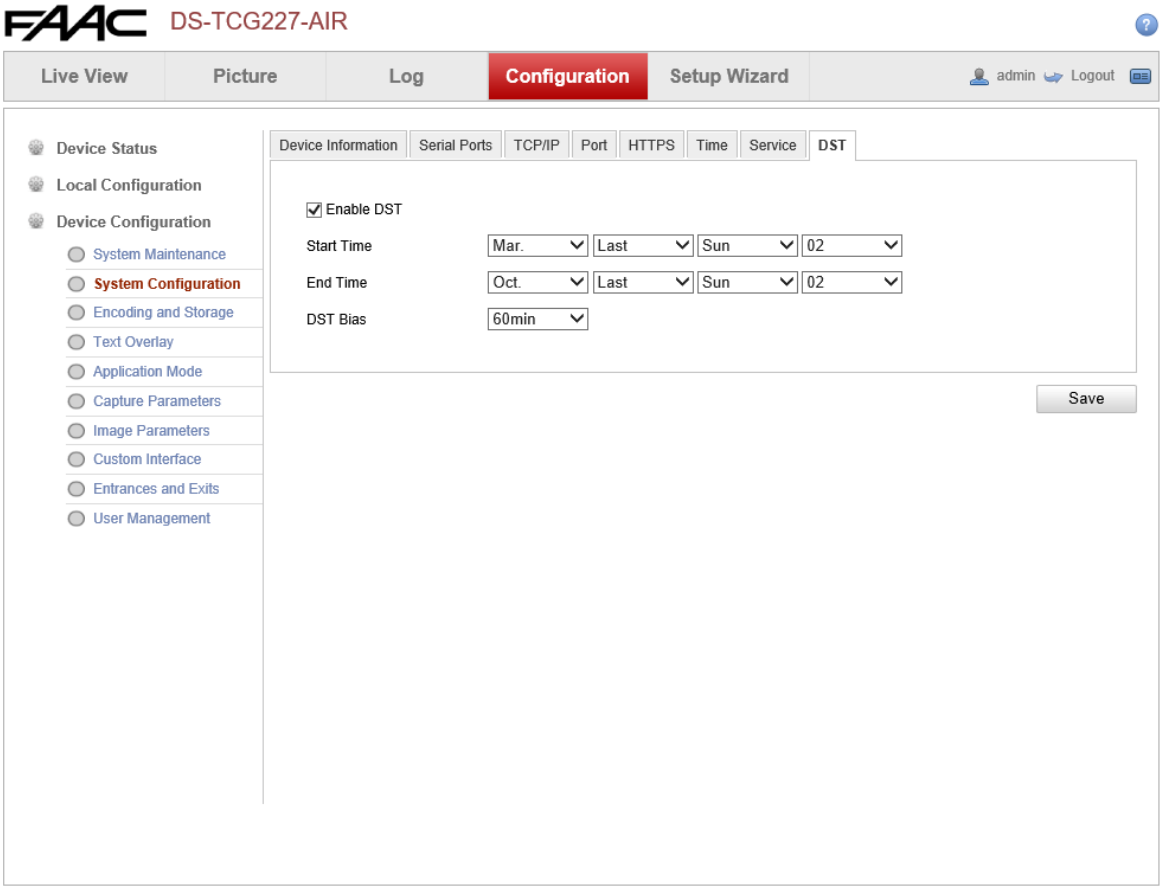
3. Synchronize time.
   Synchronizing Time by NTP Server
   (1) Check **NTP** to enable the function.
   (2) Configure the following parameters:
   Server Address: enter the IP address of the Network Controller.
   NTP Port: Port of NTP server.
   Interval: The time interval between the two synchronizing actions with NTP server.



4. Click **Save** to save the settings.

4.1.5 CONFIGURE DST

To configure the "Daylight Saving Time" management go to **Configuration** > **Device Configuration** > **System Configuration** > **DST.**



Enabling the function.

Set start and end date/time.

Enter the minutes of time deviation.

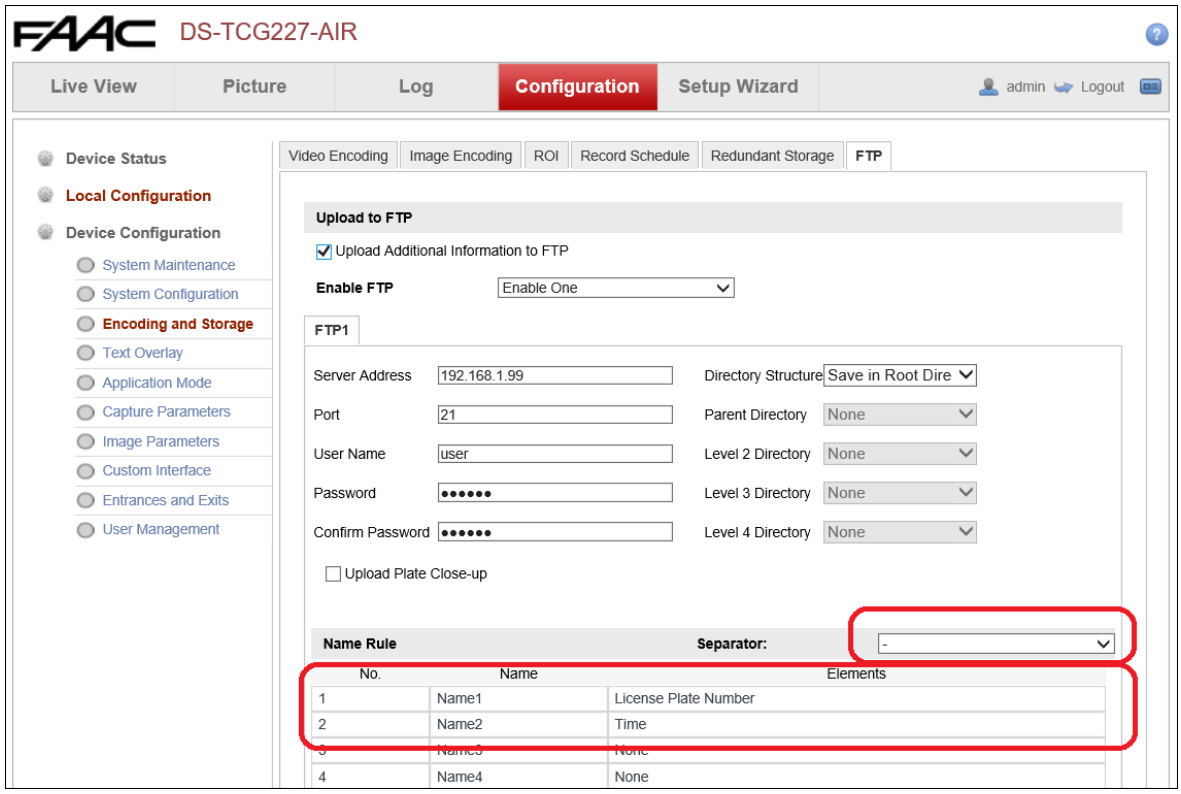
Click **Save** to save the settings.

4.1.6 CONFIGURE FTP

In order to be able to save the images linked to the number plate reading, an FTP server must be configured.

Steps:

1. Go to **Configuration** > **Device Configuration** > **Encoding and Storage** > **FTP**.



The FTP Server is already enabled and configured with the default Keydom data.

If the IP is changed in Keydom, change the Server address box with the new network address.

User Name and Password must match those configured in Keydom.

(Default: Username = user, Password = user)

Make sure that for the formatting of the image name, "-" is selected as the Separator.

In the Elements:

n°1 = License Plate Number
n°2 = Time

All other fields must be set to None.

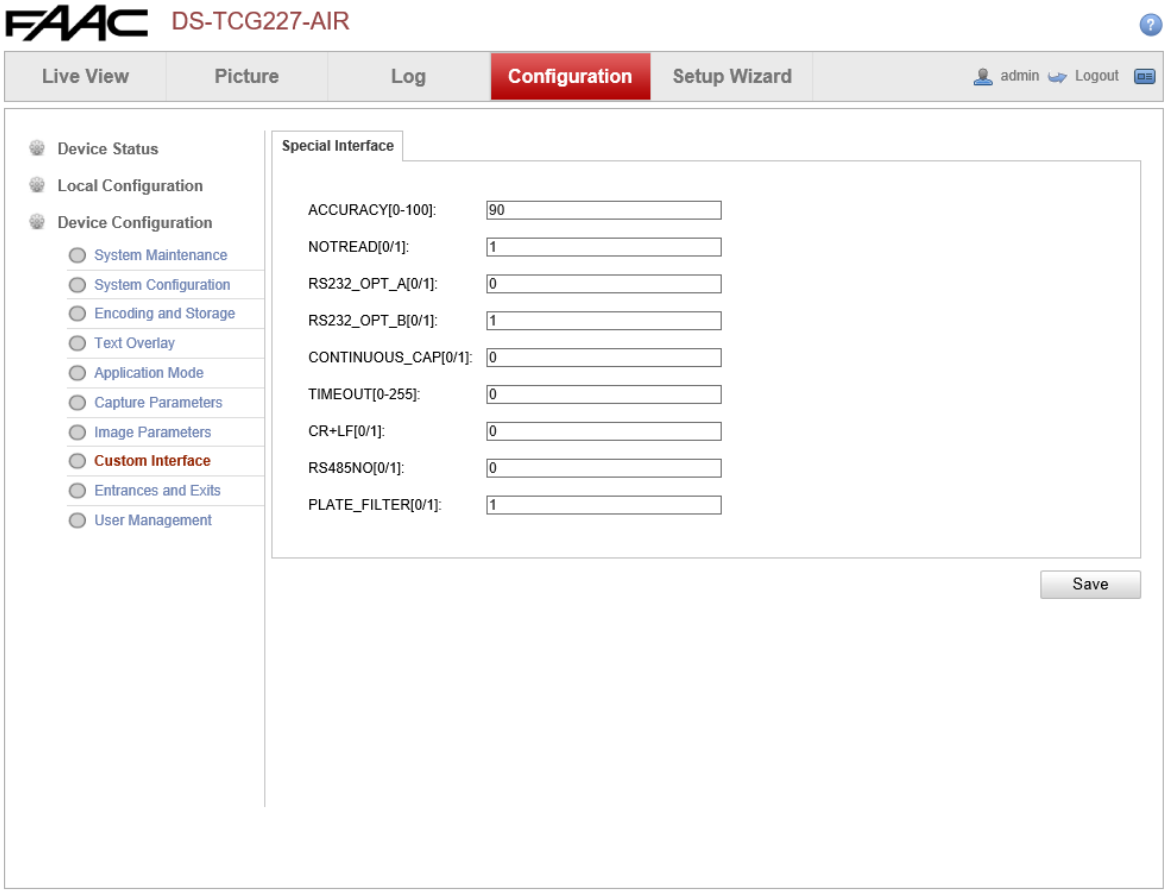
Click **Save** to save the settings.

4.1.7 CAPTURE INTERFACE

The camera can capture number plates in two different ways.

Use on the I/O coil is recommended.

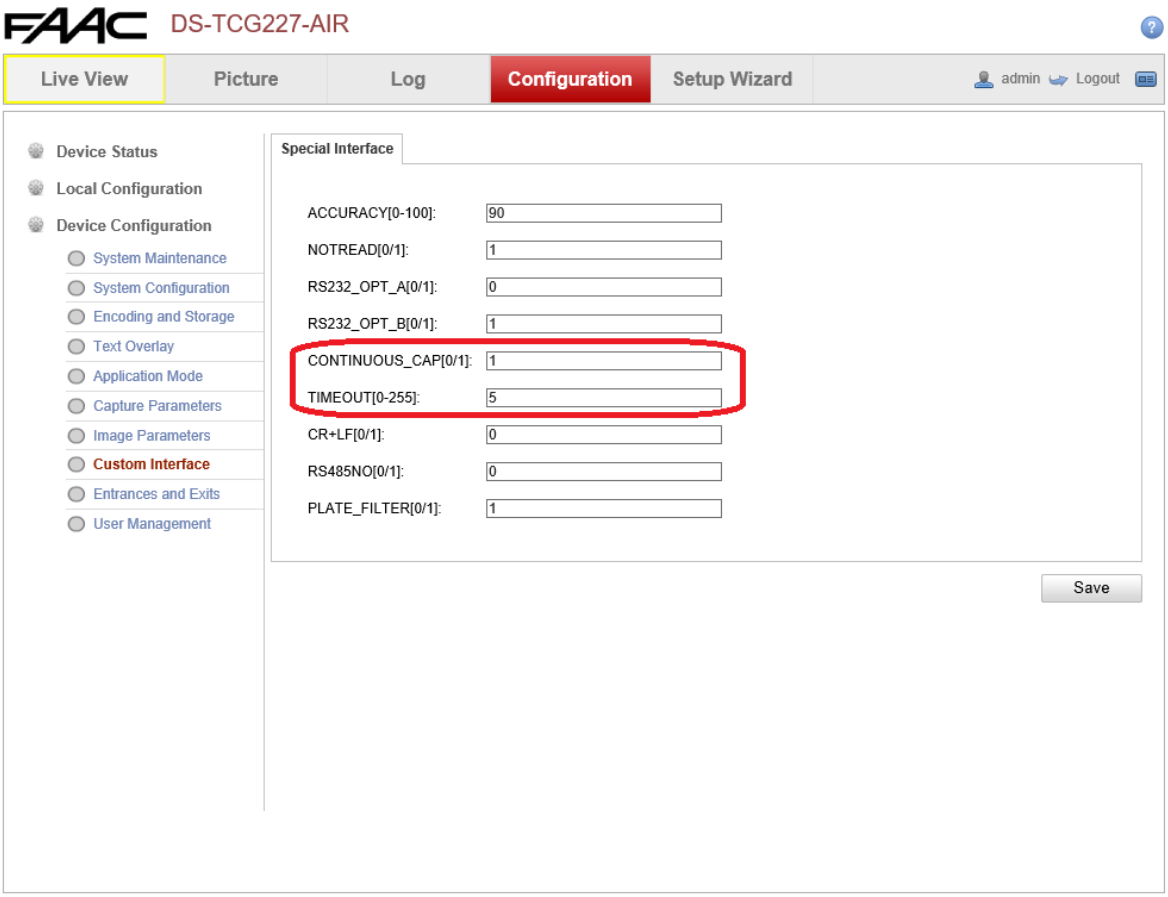
1. I/O Coil - triggered by a loop detector connected to the I/O of the camera (default). An image will be captured once a vehicle drives over the loop detector.
   - Install the loop system in the ground at the entrance in front of the camera.
   - Wire the relay from the loop detector N/O to the I/0 of the camera see "Connections"pag. 5



This configuration is set by default in the camera.

The camera is now programed to look for a number plate in the detection field every time a vehicle drives onto the loop.

2. By Constant capture mode – the camera will capture an image automatically in the interval set by the installer. Once a plate is detected in the images it will be send to Keydom.



To enable continuous reading, edit the two items highlighted above.

- CONTINUOUS_CAP = "**1**" Enable, "**0**" Disable
- TIMEOUT (0 - 255) = Enter the time interval, in seconds, between one reading and the next.

Save to confirm.

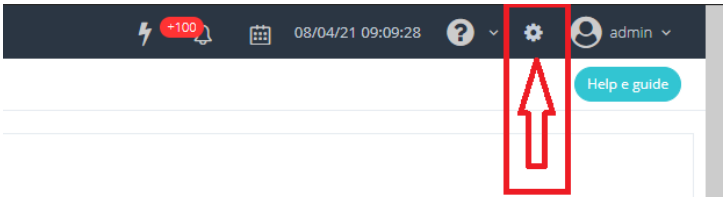
This configuration will send the data every 5 seconds in the presence of a plate. Either on the serial port or in FTP.

Once the installation is complete, you can configure the camera to transmit to Keydom.

4.2 KEYDOM SETUP

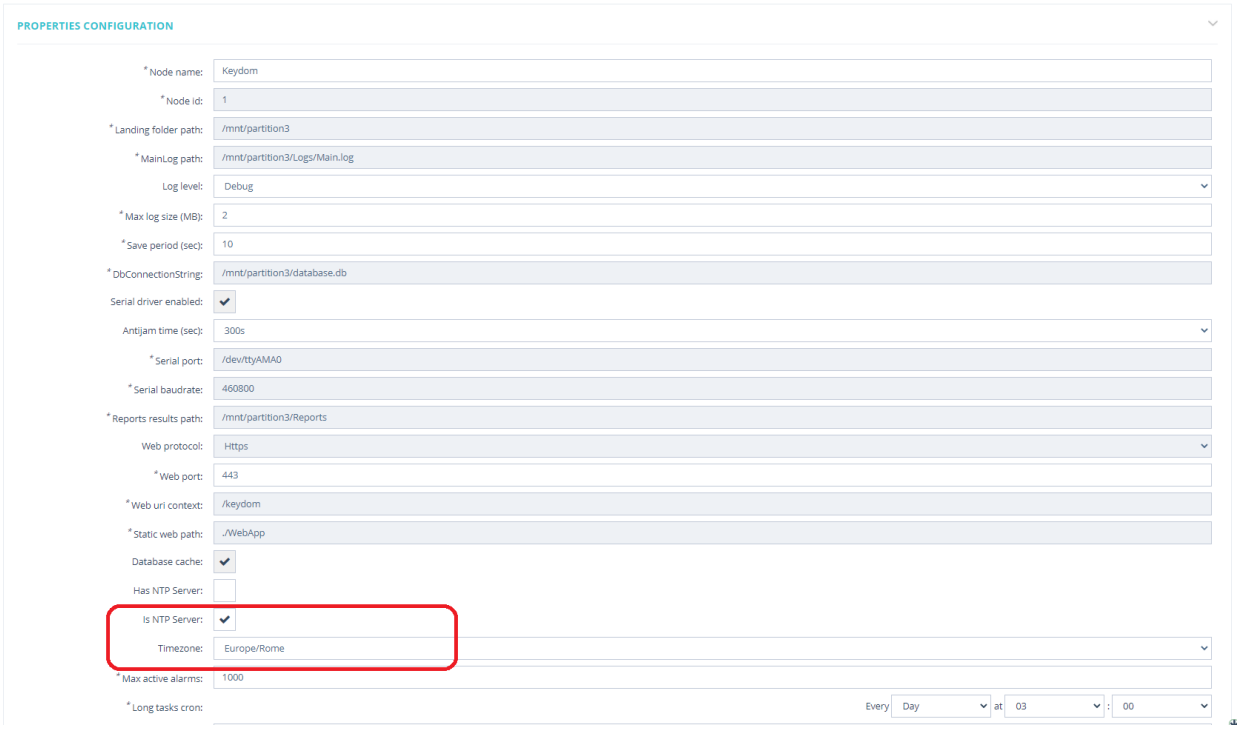
4.2.1 NTP/TIMEZONE SETTINGS

Login to Keydom and open the System Configurations menu.



Scroll down to Properties Configuration

1. Enable the 'Is NTP Server' item
2. Make sure Keydom has set the correct time zone.
3. Save



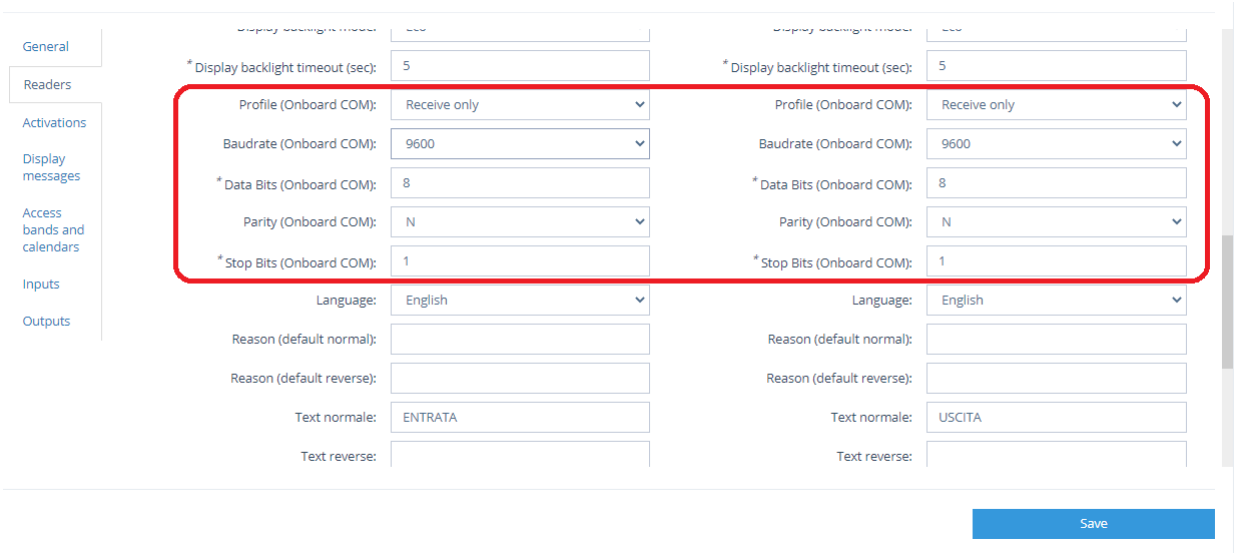
4.2.2 SET ANPR CAMERA IN THE READERS

Select Configuration > Device

Highlight the Door Controller where the ANPR Camera has been connected

Select Readers > Scroll Down to Profile (Onboard COM)

Set the "Profile (Onboard COM)" to "Receive only" and the Baudrate at 9600



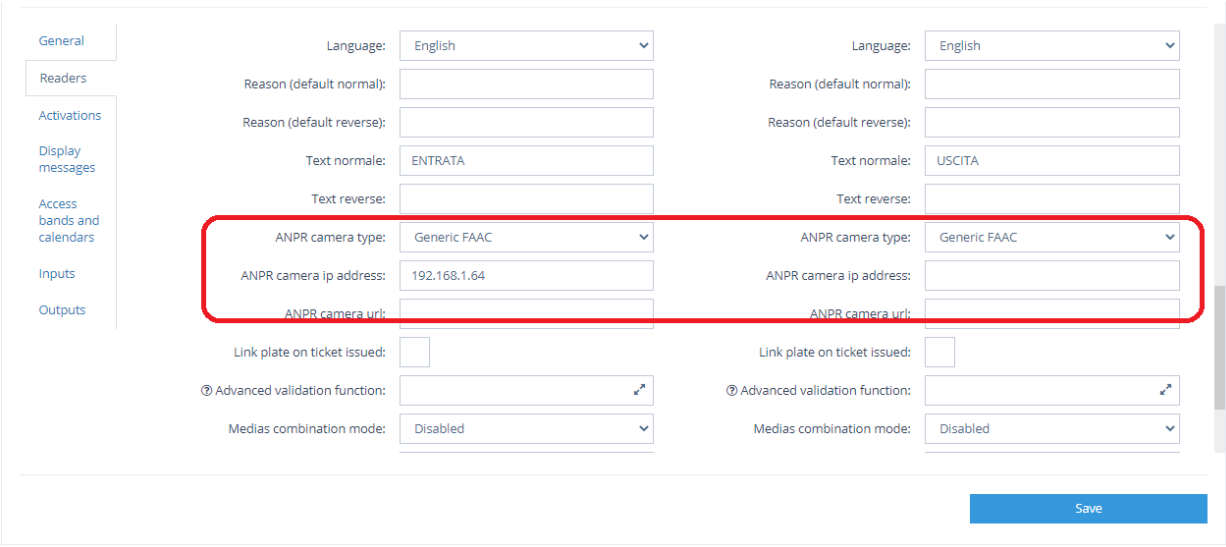
Save

4.2.3 FTP SETTINGS

Select Readers > Scroll Down to ANPR camera type and set Generic FAAC

Enter the IP address set in the camera (default 192.168.1.64)

** If the gate is Monodirectional insert the same IP address on both readers, if the gate is Bidirectional insert the corresponding IP addresses for reader A and B.
This is so that Keydom can store the images correctly.

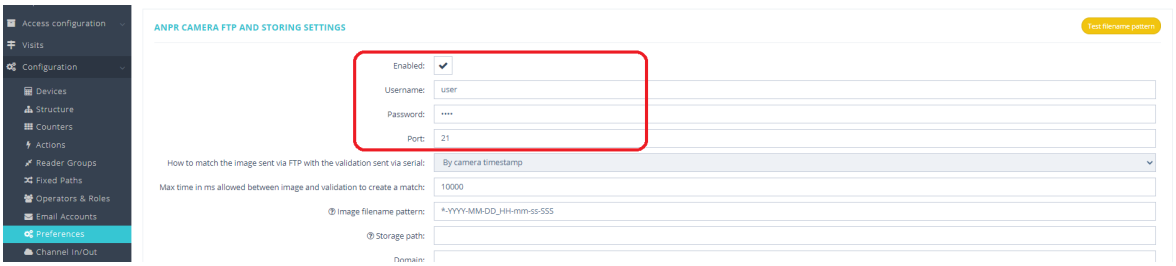


Save

Select Configuration > Preferences and scroll to ANPR Camera FTP and Storing Settings

Enable FTP management

Enter username and password used in the ANPR camera (default: username = user, password =user)



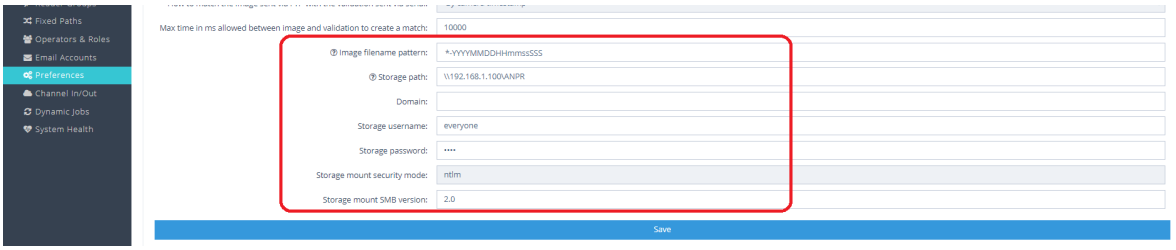
Save

In order to save images correctly, you must set which name format to give.

For ANPR - 105927 set the 'filename pattern' as follows:

***-YYYYMMDDHHmmssSSS**

Set in which folder or HD the images will be saved, with Username and Password if any



Save

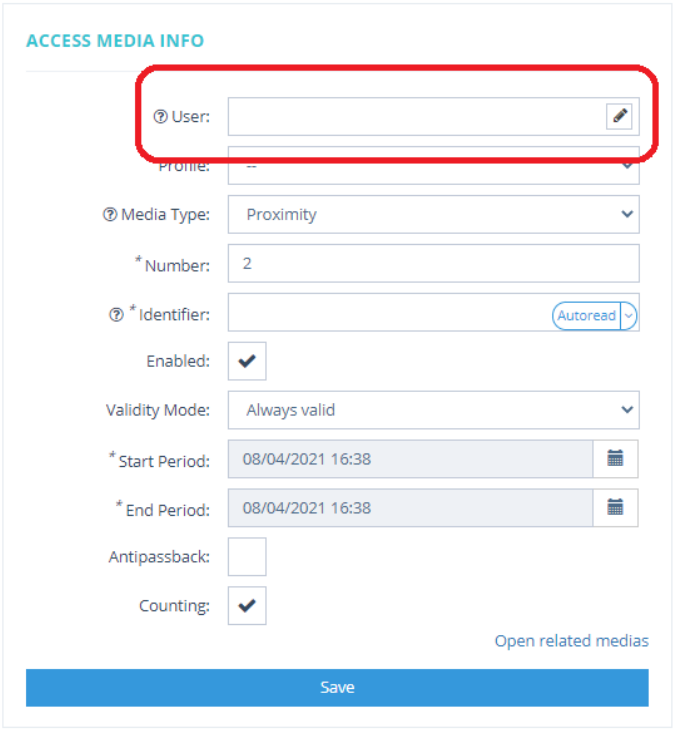
4.2.4 ENTER A PLATE IN THE ARCHIVE

To insert a number plate into the archive by associating it with an existing User or not, follow these simple steps

Select Access Configuration > Access Medias

Press the ADD button 

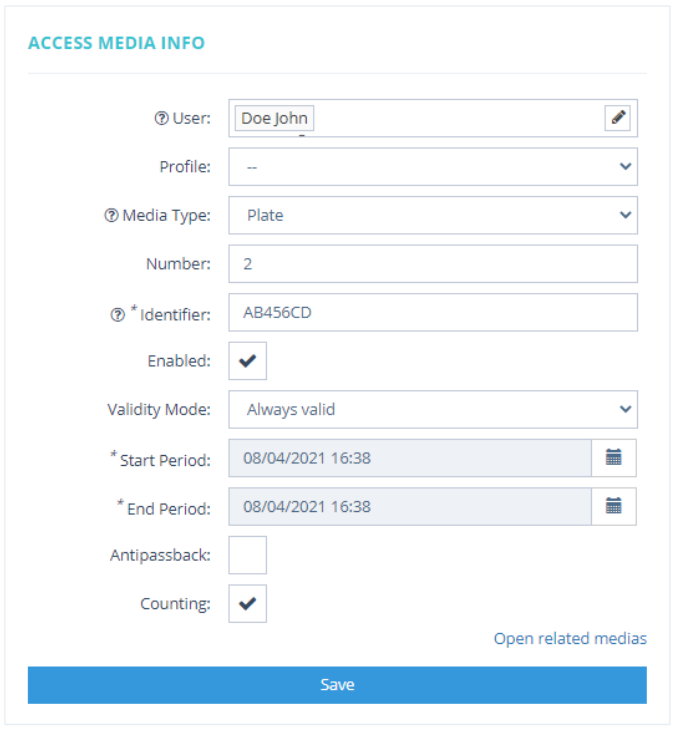
and enter the user's details in the Access Media Info Panel on the right.



Select the Pencil in the User Field

- Select the user from the popup window or if it's a new user press the ADD button in the top right.

- If it is a new user to the system fill in the first and last name and press save. No other details are needed unless you keep further records on users.



- Select Profile to match users access rights – Example user is in the default H24 Profile – Full Access
- Set Media Type to Plate
- Enter the Plate number in the Identifier
- Make sure it's enabled
- Set Valid Period
- Select Counting if you want to count the cars coming into the area.
- Save

The Media is now added to the Access Control system and configured to grant access once the number plate is presented to the camera.

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