ZKBiosecurity and LPR camera

Installation and configuration guide

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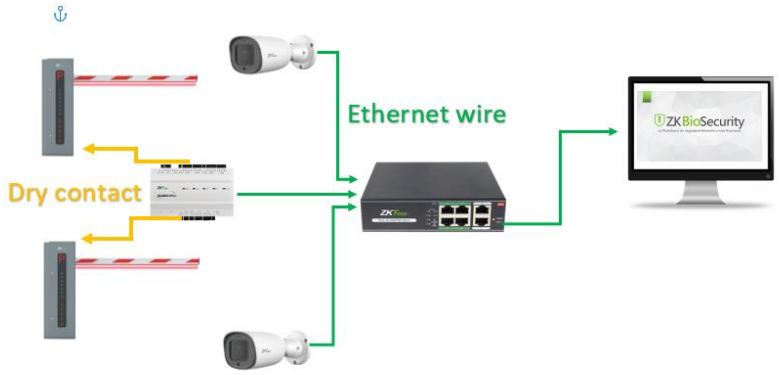
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This document describes the installation and configuration of LPR camera (DL-852Q28B-LP / BL-852Q38A-LP) and the ZKBioSecurity suite for integrated operation.

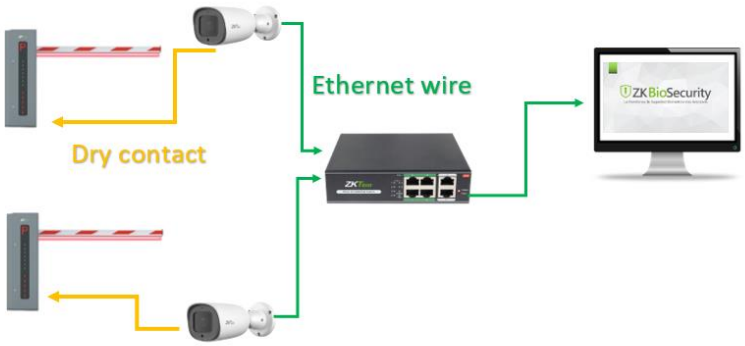
There are 2 modes of operation that we named ***online*** and ***offline***.

Online: In this way the camera informs ZKBS of all the license plates and it is the software that decides what to do with this information

(example: it will be valid for double validation of access control (either with controller or with ProfaceX)



Offline: In this mode the camera will work independently but will use the lists generated by the ZKBS software in the personnel section. The camera will send each LPR capture to the ftp directory to be able to consult all the detected plates from the software ZKBS.

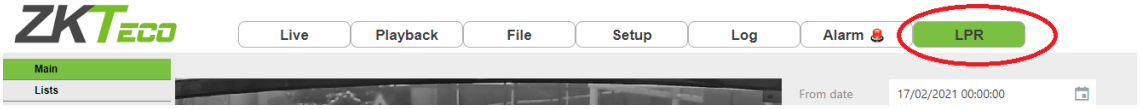


1. ONLINE MODE

1.1. LPR Setting

Follow these steps:

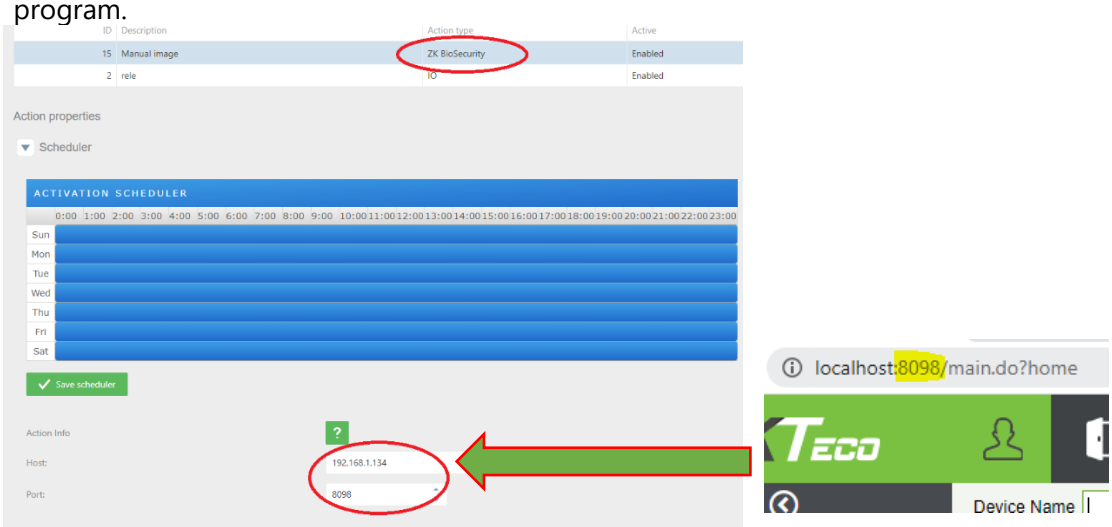
1. Enter the Camera webserver
2. Click on LPR superior Menu.



3. Go into List.
4. Click on “all plate” List.
   4.1. Create a new event “action for the list: all plates”.
   4.2. Click on the “+” on the right of the menu.
   4.3. Create a new Action Type “ZK BioSecurity”.



   4.4. Host Name: IP where the ZK BioSecurity is installed
   4.5. Port: Visualization Port of the ZKBS you can find it on the URL when you enter the program.

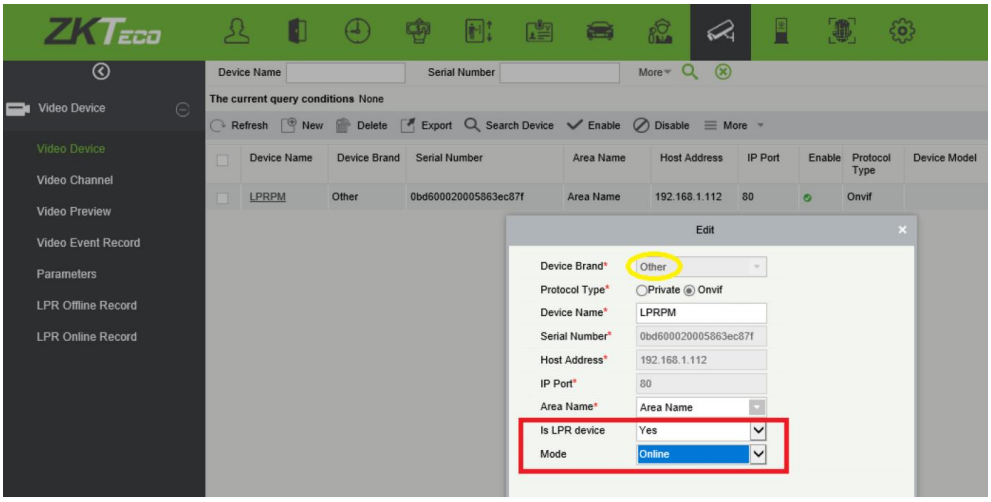


2. ZKBS Setting:

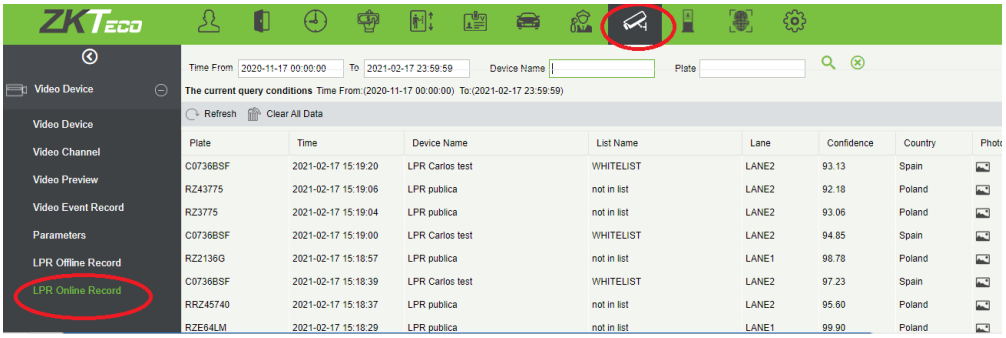
2.1. Connect the camera to ZKBS

Follow these steps:

1. Add LPR device on Video module and set it online mode.



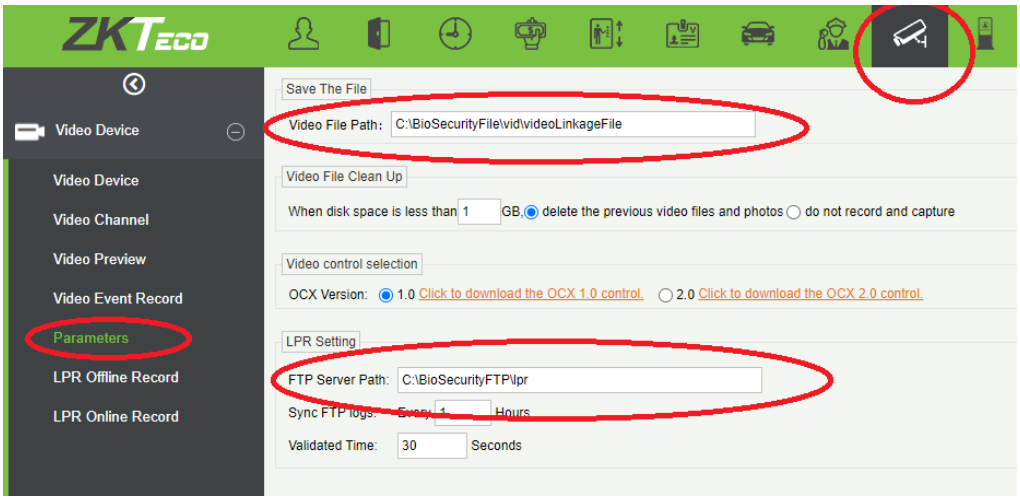
At this point, the ZKBS should receive all the number plates into the software.





If you cannot see the image of the LPR, check the unit Hard Disk where the LPR is trying to save the images.

Normally it is setting on the "D:" Disk. If you don't have D: unit, change the "D" por "C" or the letter of your main disk, and the image will storage in that path.



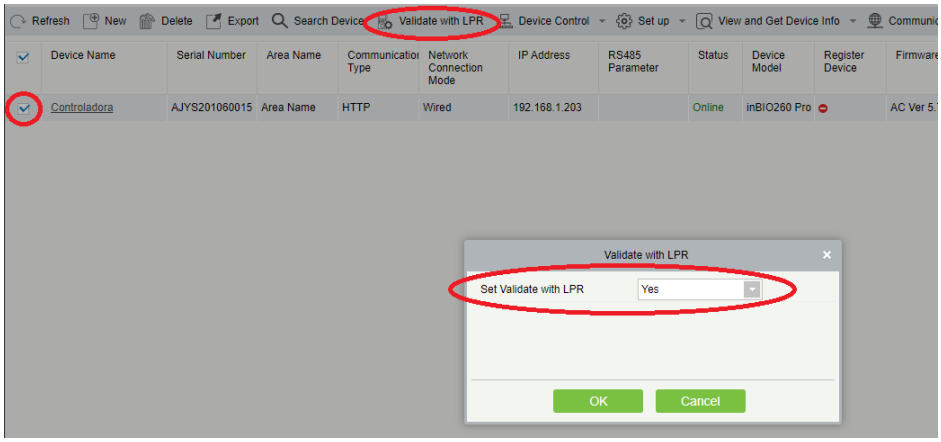
2.2. Open Gates with the LPR

For open gates with the LPR in online mode, it is necessary to have a controller like C3Pro or InBioPro. It is possible to connect a LPR camera to each lock plug of the controller. So, if a controller has 3 doors. You can open three different PK Barriers with 3 LPR with only one controller.

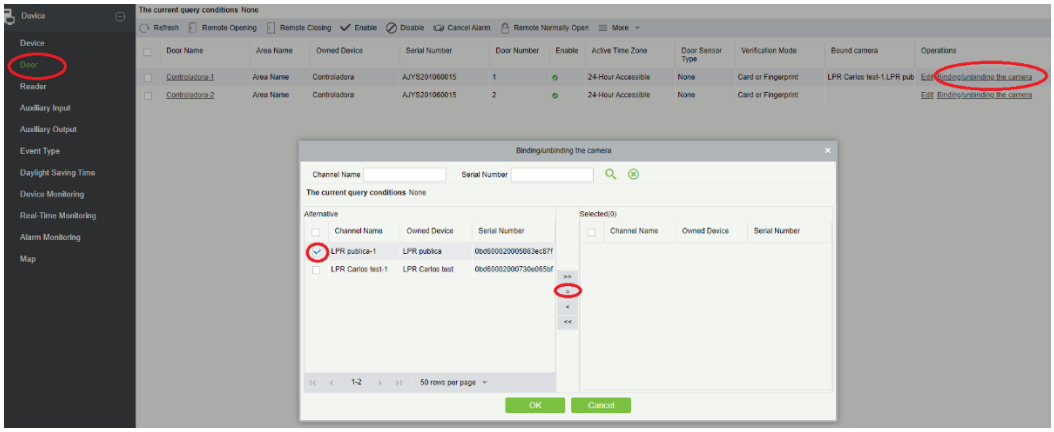
2.3. Simple verification: LPR OR Card/Palm

Follow these steps:

1. Add the controller on device module.
2. Select the controller and click on "Validate with LPR" → "Yes".



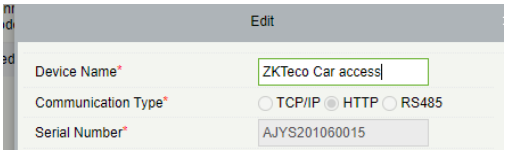
3. Go to Devide→Door
4. You can assign to any door of the controller LPR cameras.
    4.1.1. You can add to a specific door more than one LPR camera.
    4.1.2. You can add the same LPR camera to multiple doors.



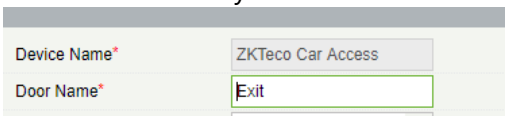
From this point, every time that the LPR read an authorized number plate, the door assigned to that LPR will open.

2.3.1 Recommendation.

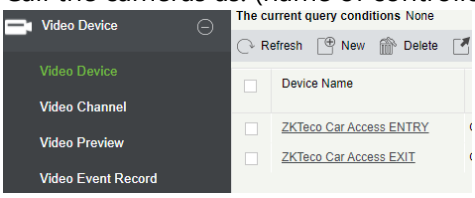
- Call the controller as the name of this car access. Example: “Main car access” or “Street Fuente Alta Car Access”



- Call the Door “Entry” or “Exit”



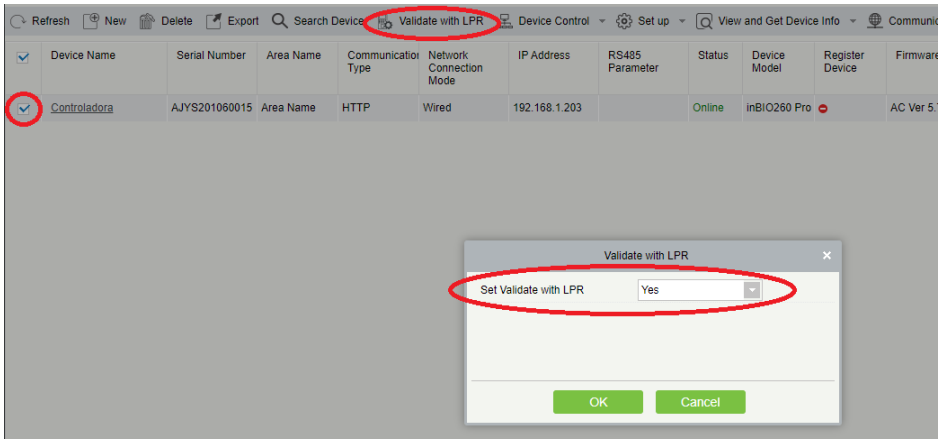
- Call the cameras as: (name of controller) + Entry/Exit



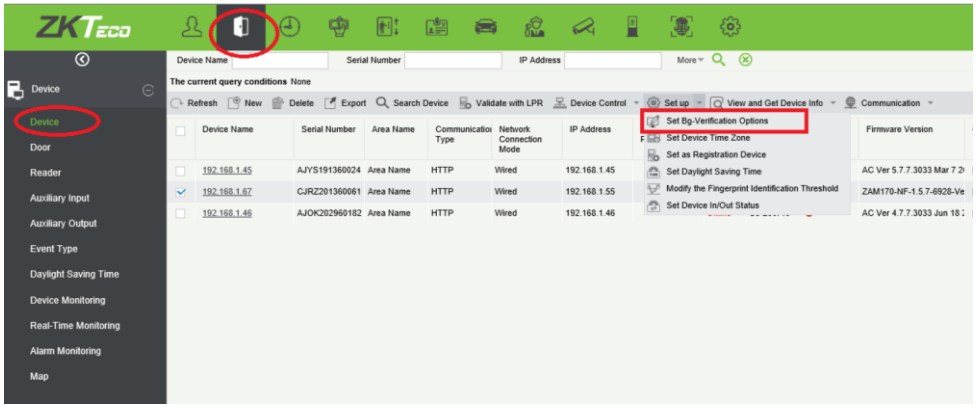
2.4. Dual verification: LPR AND Card/Palm

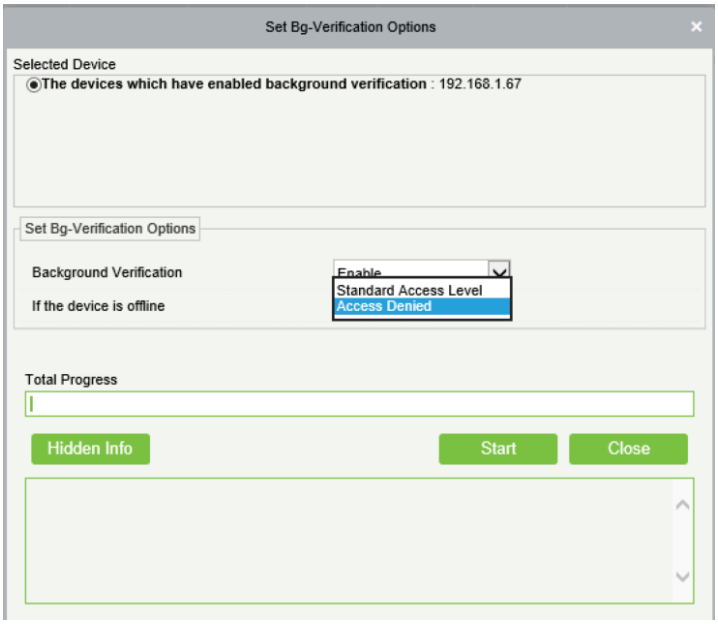
Follow these steps:

1. Add the controller on device module.
2. Select the controller and click on “Validate with LPR” → “Yes”.

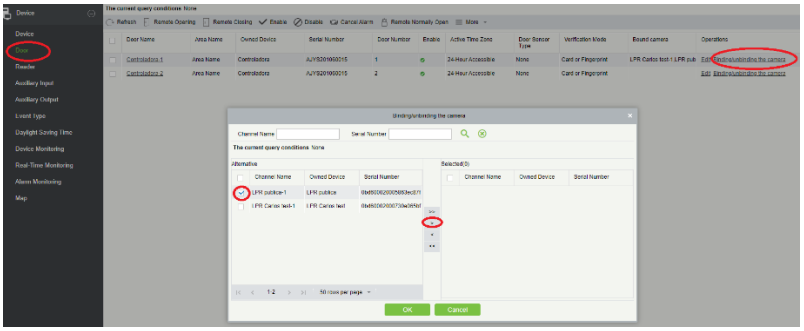


3. Select the controller and set Background Verification “Yes”.
   3.1. Access Denied (recommended configuration): in this mode the proface or controller relay will not power on until ZKBS analyzes the actuation logic.
   3.2. Standard Access Level (not recommended for this integration): the controller or Proface will work in stand alone mode.
   3.3. Example of use: in this way the Proface could activate his relay only with his authentication and the ZKBS will have all information to use in other rules or controllers

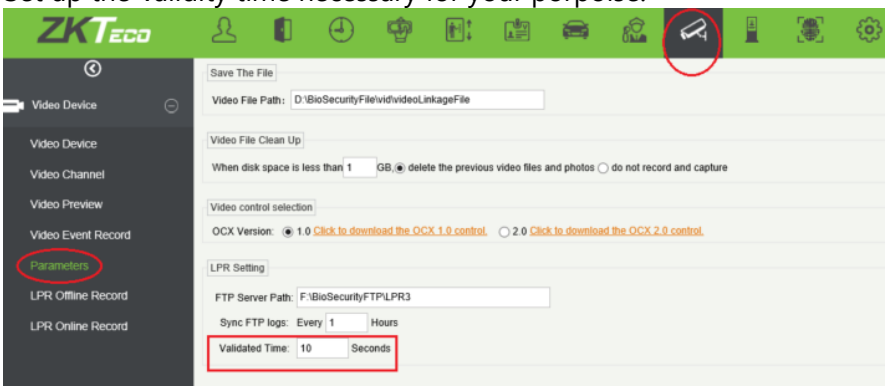




4. Go to Devide→Door
5. You can assign to any door of the controller LPR cameras.
    5.1.1. You can add to a specific door more than one LPR camera.
    5.1.2. You can add the same LPR camera to multiple doors.

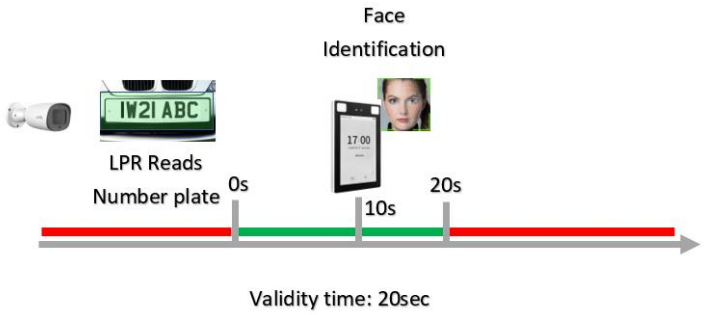


6. Set up the Validity time necessary for your porpoise.

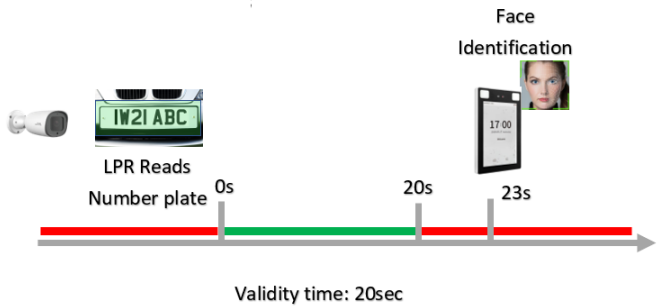


When LPR recognizes the license plate, if over the validated time, proface x will not be verified pass.

Access OK:



Access Denied/Time out:



Real-Time Events

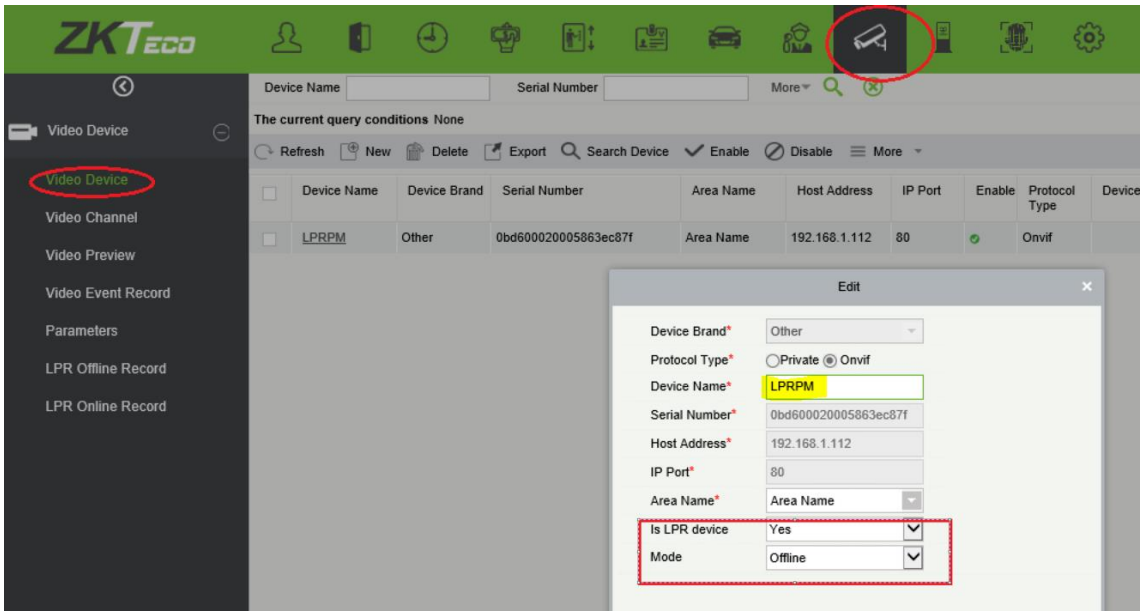
Time	Area	Device	Event Point	Event Description	Card Number	Person	Reader Name	Verificatio
2020-07-16 14:26:54	Area Name	192.168.213.248(CJ75192460007)	192.168.213.248-1	No license plate, or timeout		3(Bill)	192.168.213.248-1-Out	Other

From this point, every time that the LPR read an authorized number plate and the person confirm the dual verification inside the validity time, the door assigned to that LPR will open.

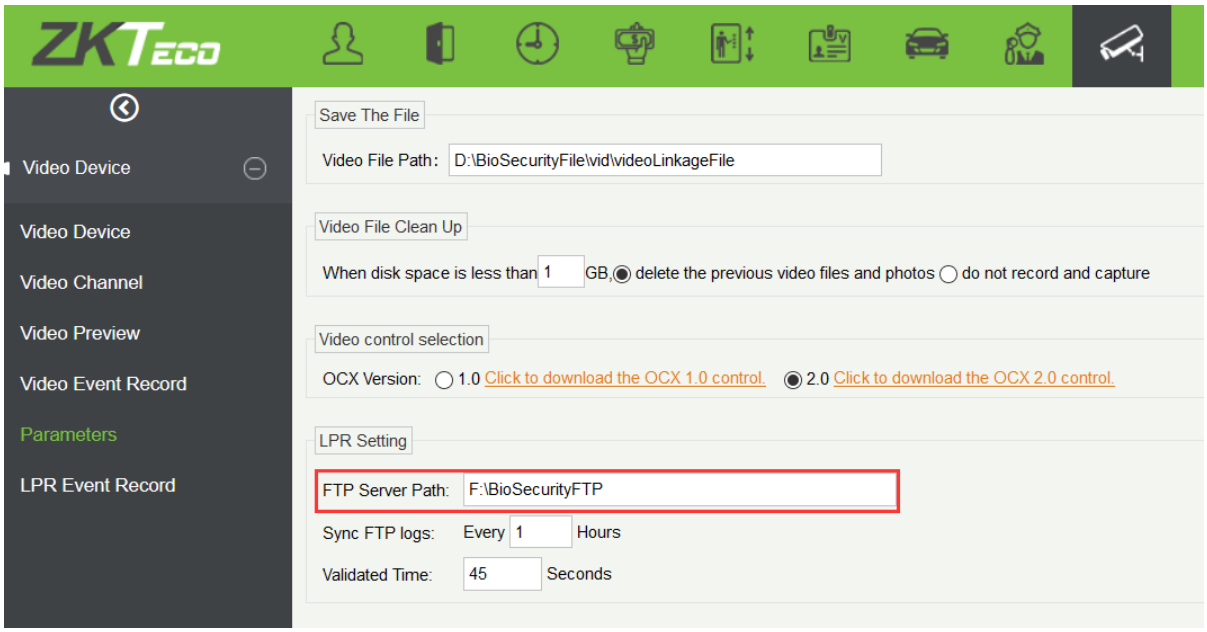
2. OFFLINE MODE

1. Build FTP server

2. Set LPR offline mode



3. Set FTP server path:



4. LPR FTP setting

(1) Create list plates that the camera will receive from ZKBS:

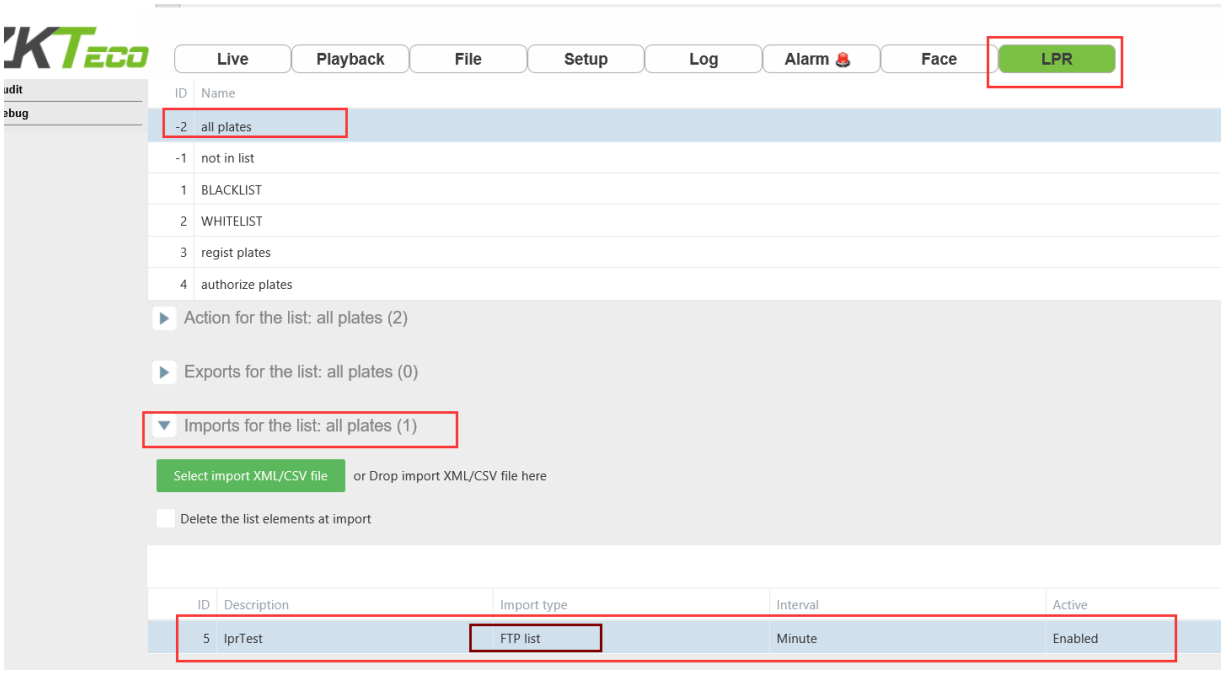
At the moment it is necessary to create 2 lists previously in the camera, in other way the file

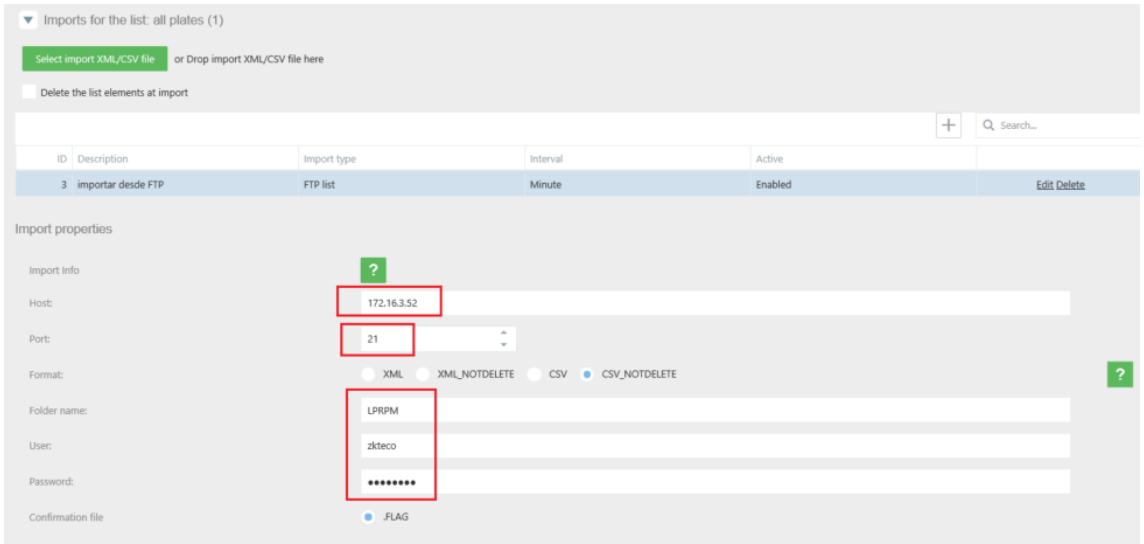
will not can be imported:

"regist plates"

"authorize plates"

(2) Import license plate setting

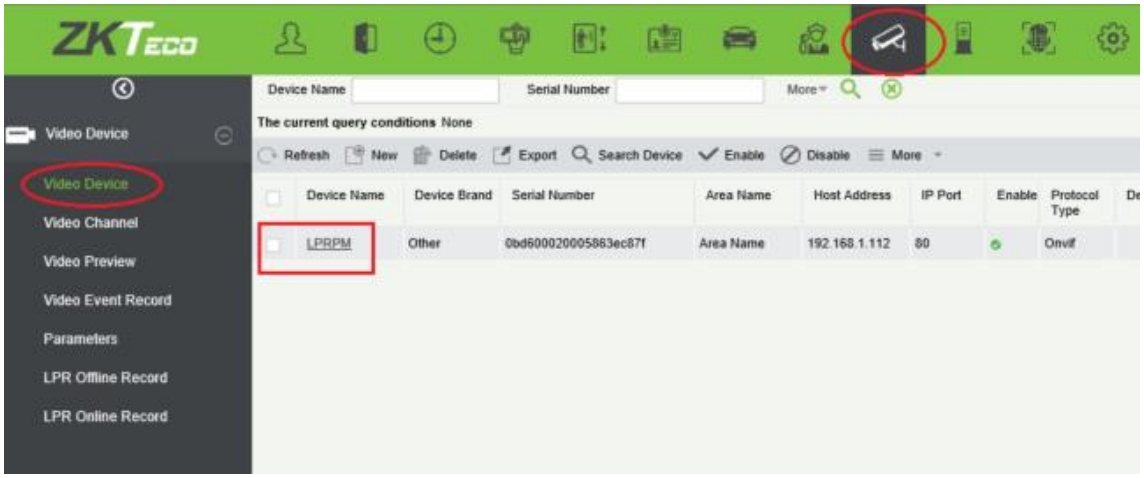




Host is FTP server host, the same with software server host

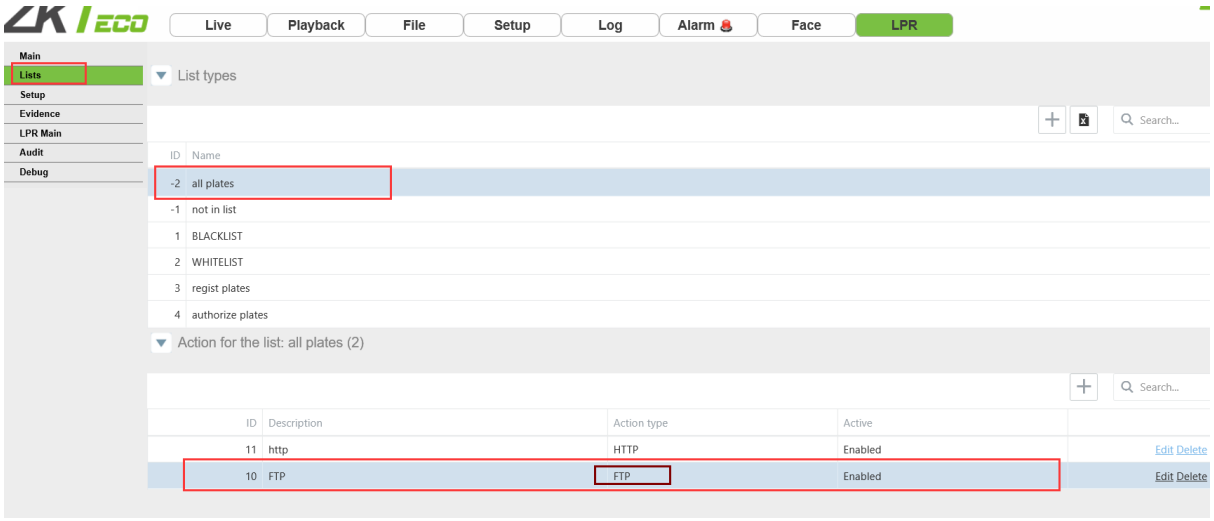
Port is FTP port, default is 21.

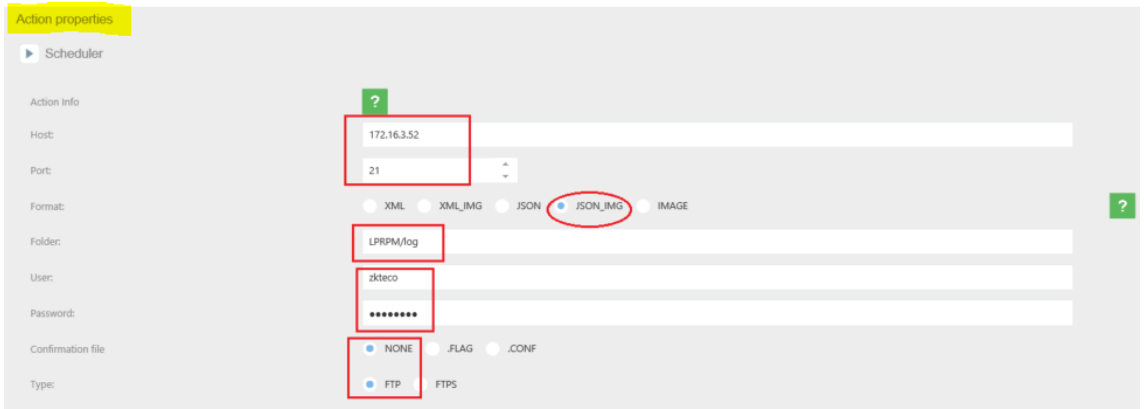
Folder name is device's name in "Video Device" configuration:



User and password are the FTP user and password.

(3) log setting:



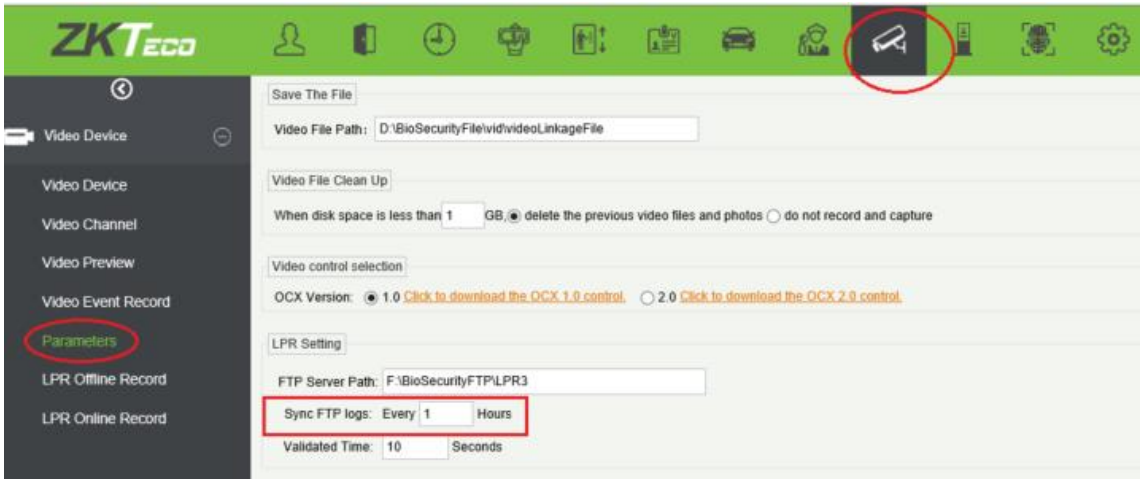


Host is FTP host, and port is FTP port.

Folder is device name plus "/log".

User and password are FTP user and password.

5. Read offline log rating:



Between 1 to 23, example 1, will read offline logs every hour

Offline log:

