



PARKING MANAGEMENT SYSTEM

USER MANUAL



**Thank you for the confidence you have shown
us by purchasing our product!**

Please read this manual first!

Dear Customers,

We hope that all your expectations of this product will be fulfilled. Parklio™ Parking Management System is manufactured using the latest technologies and has undergone rigorous quality control procedures.

This User Guide will help you use your product quickly and safely.



Read the user manual before installing and using the parking product.

Keep this user manual at hand for future reference.

TABLE OF CONTENTS

Table of content.....	3
1.0. Set-Up Instructions Parklio™ Parking Management System.....	5
1.1. Step One: Parklio™ PMS - How to start.....	6
1.2. Step Two: Account Settings.....	7
1.2.1. Info.....	8
1.2.2. Licenses.....	9
1.2.3. Subscription.....	10
1.2.4. Invoice Setup.....	10
1.2.5. Parking Managers.....	11
1.3. Step Three: User Settings.....	13
2.0. Add and Manage Productson PMS Account.....	13
2.1. Gateway Add and Manage.....	14
2.1.1. Add Gateway via Parklio Connect APP.....	14
2.1.2. Manage Gateway via Parklio PMS.....	15
Details.....	15
System Control.....	16
Gateway signal.....	16
2.2. Barrier Add and Manage.....	17
2.3. Gate Add and Manage.....	19
2.4. Chain Add and Manage.....	19
2.5. Bollard Add and Manage.....	20
2.6. ANPR Camera Add and Manage.....	20
3.0. Manage the Parking lot on your PMS Account.....	32
3.1. Products.....	32
3.2. ANPR.....	32
3.3. Shared Access.....	35
3.3.1. Shared Keys.....	35
3.3.2. Pending Access.....	36
3.3.3. Weblink.....	36

3.3.4. ANPR access.....	37
3.5. Parking lot.....	38
3.5.1. Parking lot info.....	39
3.5.2. Parking Managers.....	40
3.5.3. Zones.....	40
3.5.4. ANPR Image Storage.....	42
4.0. FAQ.....	43

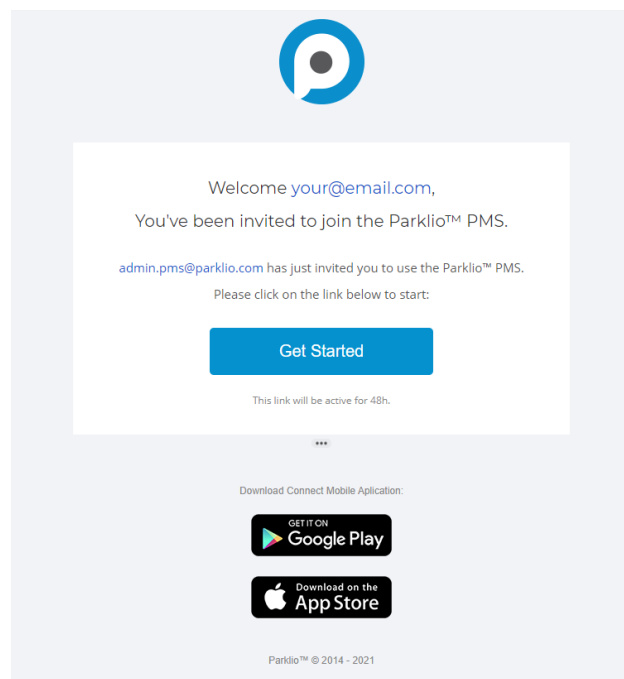
1. Set-Up Instructions

Parklio™ Parking Management System

Parklio™ Parking Management System (PMS) enables reliable control and management of parking lots and Parklio™ Smart parking products through a user-friendly interface. Parklio™ PMS is the most advanced parking management system on the market that optimizes parking lot occupancy and provides real-time information about parking state, product position, and other useful information.

■ 1.1. Step One: Parklio™ PMS - How to start

Once users have requested access to the PMS, the Parklio team will send an invitation email to them. **The Get Started** button redirects you to the PMS website.



Choose a password to use for future logins

A screenshot of the Parklio PMS account creation page. At the top is the Parklio logo. Below it, the heading "Create account" is displayed. Underneath, it says "Your username is: your@email.com". The main form area contains two input fields: "NEW PASSWORD" with the placeholder "Enter Password" and "CONFIRM NEW PASSWORD" with the placeholder "Repeat Password". Both fields have a small lock icon to their left. Below these fields is a blue button with the text "Sign up". At the bottom of the page, it says "Clicking Login indicates you agree with our [General Terms](#) and [Privacy Policy](#)". The footer at the very bottom says "Parklio™ © 2021".

Choose a password to use for future logins

Dashboard Parking Lots

Dashboard Reports

Parking lot - Parklio Office

Parklio Office

All Share Digital Key Share Weblink

PRODUCT	IT	POWER	STATUS	SIGNAL	REMOTE CONTROL
<input type="checkbox"/>	BAUBAUA		Online		Extend
<input type="checkbox"/>	CH1G0JA		Online		Open
<input type="checkbox"/>	GPWYMJH		Online		Open

Gateway Connections

xyeINESLOWBX
Online

Products need attention

Refresh error list

No errors found

Pending Managers

[Add Parking Manager](#)

No pending Parking Managers



If your Dashboard doesn't have a Parking Lot presented, contact your Administrator

■ 1.2. Step Two: Account Settings

To open **Account Settings**, log into the Parking Management System and click the Settings icon, found in the upper right corner.

It opens a navigation tab with options:



- Info
- Licenses
- Subscription
- Invoice Setup
- Parking Managers

■ 1.2.1 Info

The PMS includes a specialized section for account administration that is accessible only to users with Super Admin privileges. This section provides a centralized location for managing essential account and contact information relevant to the interaction with the Parklio™ Sales team.

After clicking the Info button in the Account settings, the Super Admin is provided with two tabs: Account and Contact Person.

Dashboard / Account Info

Info

Licenses

Invoice Setup

Parking Managers

Account

Account John Doe

Account Type PMS

Contact Person

Contact Name John Doe

Contact Email john.doe@parklio.com

Contact Phone Contact Phone

Save

Account:

- Account name
- Account type

Contact:

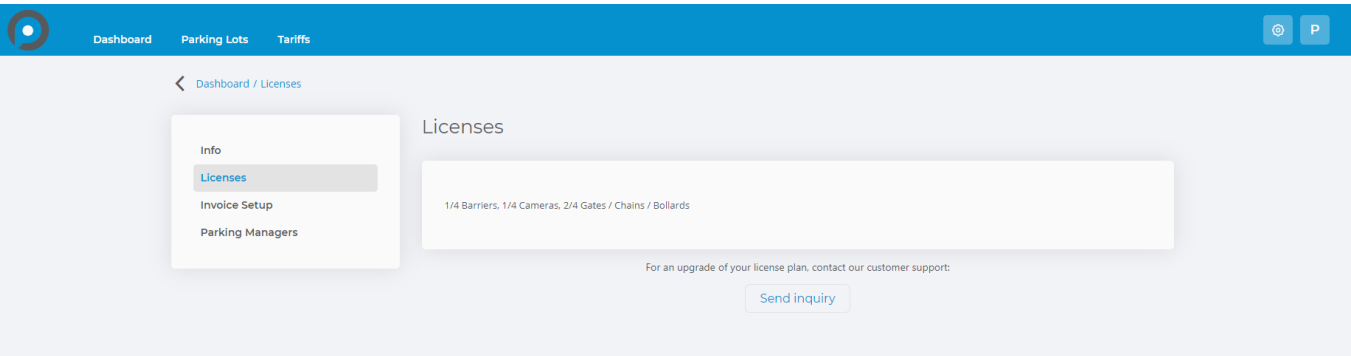
Here you can add or update the information about the person in charge of communication with the Parklio team:

- Contact Name
- Contact Email
- Contact phone

After entering or modifying the information, remember to click "Save" to ensure that the changes are applied and communicated to the Parklio™ team.

■ 1.2.2. Licenses

The licenses page provides users with valuable insights to optimize their licensing configurations, displaying the products that have already been added to the account and the maximum number of products that are available to add.



To get access to additional licenses, click the Send Inquiry button. This will open a dialog where you can specify:

- The quantity and variety of products you wish to add to your account.
- An optional message with further details for the Parklio team.

Licenses

Sorry, no licenses have been added to your account.

Please state how many products you need to add to your Parking Management account and our Customer Service will contact you as soon as possible.

You can also contact us over the phone: +385 97 7247 276.

LPR cameras

— 0 +

Gates / Chains / Bollards

— 0 +

Barriers

— 0 +

Message

For any additional information, send us a message.

Cancel

Send

■ 1.2.3. Subscription

By clicking on the Subscription in the Info navigation tab users are redirected to a page with a comprehensive overview of Parklio™ Subscriptions, guiding them in selecting the most suitable Parklio™ PMS subscription plan for their parking management needs.

SUBSCRIPTION PLANS

Flexibility or savings? You Decide! Select our monthly plan for unmatched flexibility in solving your parking problems. Or, choose to save smartly with our annual plan and get a two-month subscription free of charge!

Monthly Yearly

Plan	Price (per month)	Start trial	Includes:
Parklio Barrier managed with PMS	€6.99	Start trial	<ul style="list-style-type: none">Access to PMS software for remote control from anywhereSimultaneous digital key sharing with limited/unlimited durationsConvenient access sharing through web links and QR codes
Parklio Brain managed with PMS	€7.99	Start trial	<ul style="list-style-type: none">Role-based access to Cloud-based PMS softwareCentral management of single or multiple products with built-in BrainDigital key sharing in bulk with limited or unlimited duration
Parklio Gate/Chain/Bollard managed with PMS	€9.99	Start trial	<ul style="list-style-type: none">Role-based access to PMS software for remote controlManagement of one or more parking lots from a central locationBulk digital key sharing with restricted or unlimited duration
Parklio ANPR managed with PMS	€15.99	Start trial	<ul style="list-style-type: none">Role-based PMS access for centralized ANPR camera administrationSecure storage in an unlimited license plate databaseReal-time car counting for monitoring parking occupancy

■ 1.2.4. Invoice Setup

Invoice Setup allows for setting up invoices that will be sent to the desired email. Users have the option of selecting a nation and a currency.

Invoice Setup

Select Country: Croatia

Select Currency: Euro













Save

■ 1.2.5. Parking Managers

The **Parking Managers** page contains the list of all managers in the Parking Management System. It is possible to edit Manager information from the list or remove them from the System.

Managers have different roles:

- **Operator** – Adding products to PMS, controlling the products and managing the parking lot only if they are assigned to the lot.
- **Admin** - Having the same operations as Operator, with the possibility of viewing reports and statistics of a parking lot. Admins can also add other Admin and Operators on the lots they are assigned.
- **Super Admins** - Not having any restriction within the PMS. Available options are viewing, managing, editing and deleting everything in the system. It is not possible to delete yourself as a Super Admin, but another Super Admin is allowed to do it. Super Admins are assigned to all Parking Lots by default.

Parking Managers				
USER	ROLE	EMAIL	PHONE	
Super Admin Account	Super Admin	Super.Admin.Account@parklio.com		 
Admin Account	Admin	Admin.Account@parklio.com		 
Admin Account	Admin	Admin.Account@parklio.com		 
Admin Account	Admin	Admin.Account@parklio.com		 
Operator Account	Operator	Operator.Account@parklio.com		 
Operator Account	Operator	Operator.Account@parklio.com		 

The Parking Managers tab also allows the user to remove users and edit their information. The trash icon is used to discard information, while the pencil icon is used to edit data. To save all changes, click the Save button.

Parking manager

Role

Operator

Admin

Super Admin

Email

john.doe@parklio.com

Name

John Doe

Phone

Phone

Cancel

Save



Parking Managers need to be assigned to the Parking Lot so they may administer it. To do so, follow the steps:

- Select the Parking Lot where the Parking Manager will be added.
- Click the Parking Lot link in the navigation and after Parking Managers link located in the dropdown menu.
- There will be a list of the Parking Managers who have been assigned to that Parking Lot.
- Click the "Parking Managers" button and a list of all Managers in the System will appear. It is possible to choose the user in charge of control of that Parking Lot.

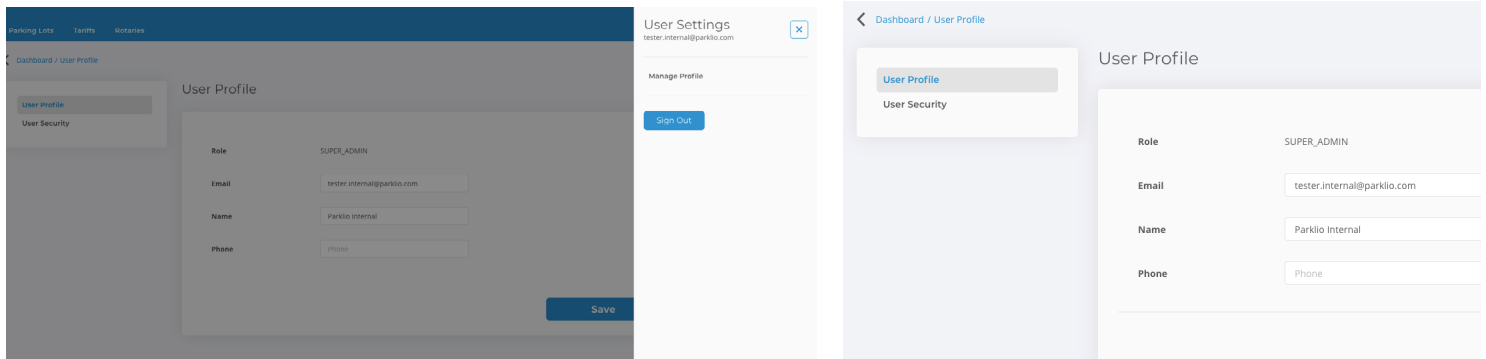
Parking Managers

Only Added managers will be able to access this Parking lot.

USER	EMAIL	ROLE	
Parklio PMS	superadmin@parklio.com	Super Admin	<button>Remove</button>
Portugal demo	portugal@parklio.com	Admin	<button>Add</button>
Operator Name	operator@parklio.com	Operator	<button>Add</button>

■ 1.3. Step Three: User Settings

To edit profiles while logged into PMS, click on the icon displaying your profile name in the top right corner. Next, select '**User Settings**' to access the '**Manage Profile**' tab, which includes '**User Profile**' and '**User Security**' sub-tabs. The User Security tab allows changing the password.



2. Add and Manage Products on PMS Account

It is necessary to add parking products via Connect app before using PMS to control parking protection. Download the Parklio™ Connect App in Play Store, Huawei Store or App Store or scan the QR code.



Android



iOS



Huawei

When the app is downloaded successfully, it is necessary to use the same credentials (email and password) as those used for Parklio PMS.

To complete products installation on the account, the following steps must be taken:

1. Bluetooth and Location services need to be switched on.
2. In the main navigation, select the "Lots" link.
3. Enter the "Default lot" parking lot.
4. Follow the installation instructions shown later in this manual.

■ 2.1. Gateway Add and Manage



Please keep in mind that the Gateway must be installed before other products for the configuration to be successful.

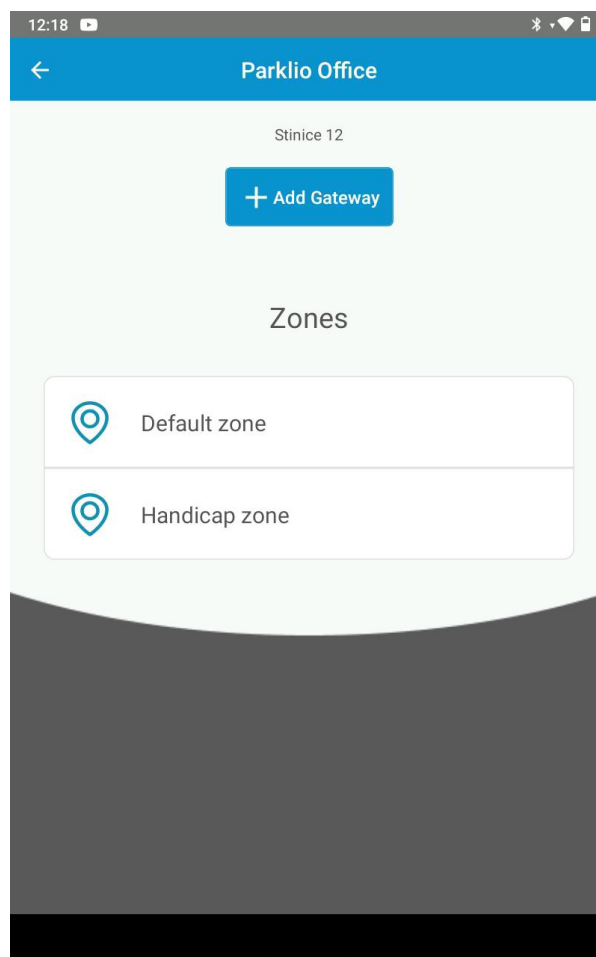
■ 2.1.1. Add Gateway via Parklio Connect APP



Use the instructions in the User Manual to ensure that Parklio™ Gateway is correctly installed and plugged in. Download the instructions by scanning the QR code on the right.

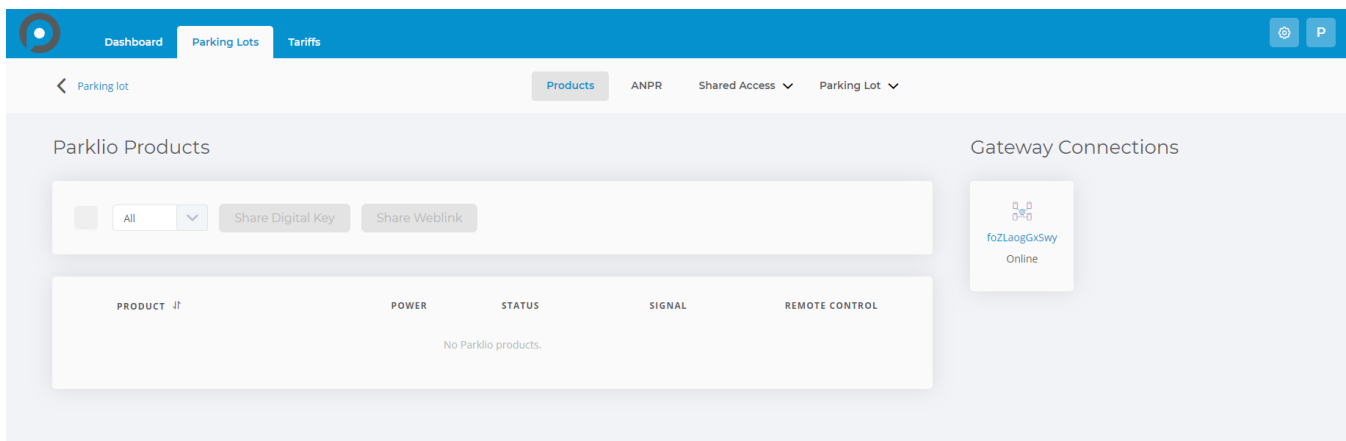


Connect the Gateway to the selected lot. Click the **+ Add Gateway** button, choose a **Gateway** from the list, and then follow the instructions.



■ 2.1.2. Manage Gateway via Parklio PMS

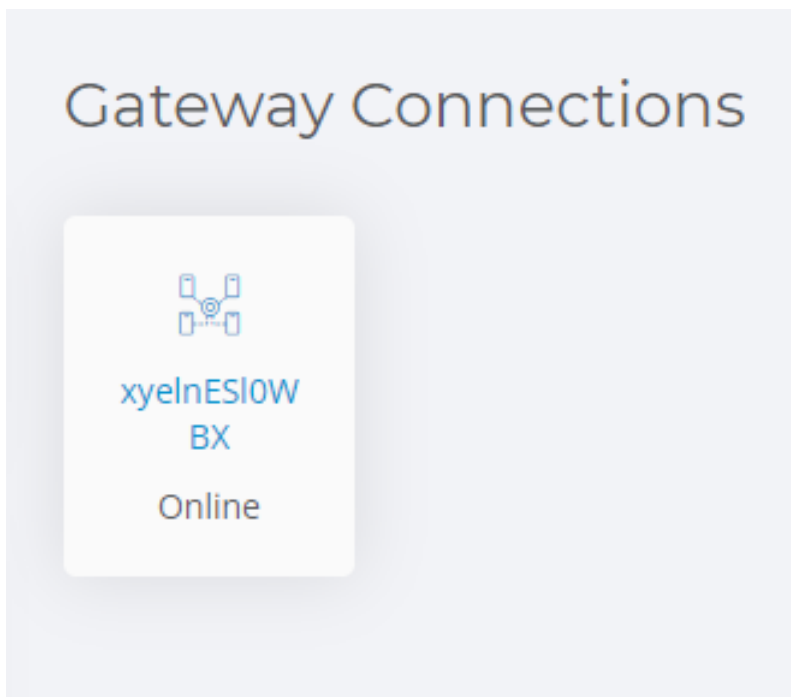
Access Gateway from the Dashboard tab or Parking Lots tab.



Clicking the Gateway name gives access to the Gateway control modal.

Details

It is possible to change the name of your Gateway and get information about UUID (unique ID of your Gateway) by choosing a Gateway from the Gateway Connections.



The **Details** tab, which may be reached by clicking the Gateway name, contains information on the Gateway's status. It is also possible to uninstall the Gateway. Only by uninstalling the Gateway from the PMS or Connect App, adding another Gateway to a different Parking Lot will be available.

Details System Control

Name
xyelnESI0WBX

Online

UUID xyelnESI0WBX

Remove product

Cancel Save

System Control

Details System Control

Reboot Gateway ? Online Reboot

In case users experience some troubles with the Gateway, try to Reboot it via PMS. This action may take a while.



In case the Gateway is offline, it is not possible to have remote control of parking products, or reboot the Gateway via PMS. In that case, it is necessary to take the steps explained in the Gateway manual.

Gateway signal

The signal between the Gateway and the device should be between -60 and -90 dBm. To check the signal strength, go to the device and put the mouse on the signal icon as shown in the photo.

Parking lot - Parklio Office

Parklio Office

All Share Digital Key Share Weblink

PRODUCT	IT	POWER	STATUS	SIGNAL	REMOTE CONTROL
<input type="checkbox"/>	BAUBAU		Online		Lower
<input type="checkbox"/>	CH1G9A		Online	Signal strength: -67 dBm	Close
<input type="checkbox"/>	GPWYMH		Online		Open

Gateway Connections

xyelnESI0WBX
Online

■ 2.2. Barrier Add and Manage

Once the Gateway is running, it is possible to add barriers to a Parking lot.

The process of adding the Barrier is the same as adding the Gateway:

- Choose the parking lot and the zone where you want to add a new device
- Click the + button on the top right of your screen
- Scan the product barcode or choose it from the list

Once the Barrier is added, it is possible to control it via Parklio™ PMS or Connect app.

To control barriers via Parklio™ PMS, choose the Dashboard tab, pick the desired lot and control barriers by clicking the button Open/Lower in the Remote Control column

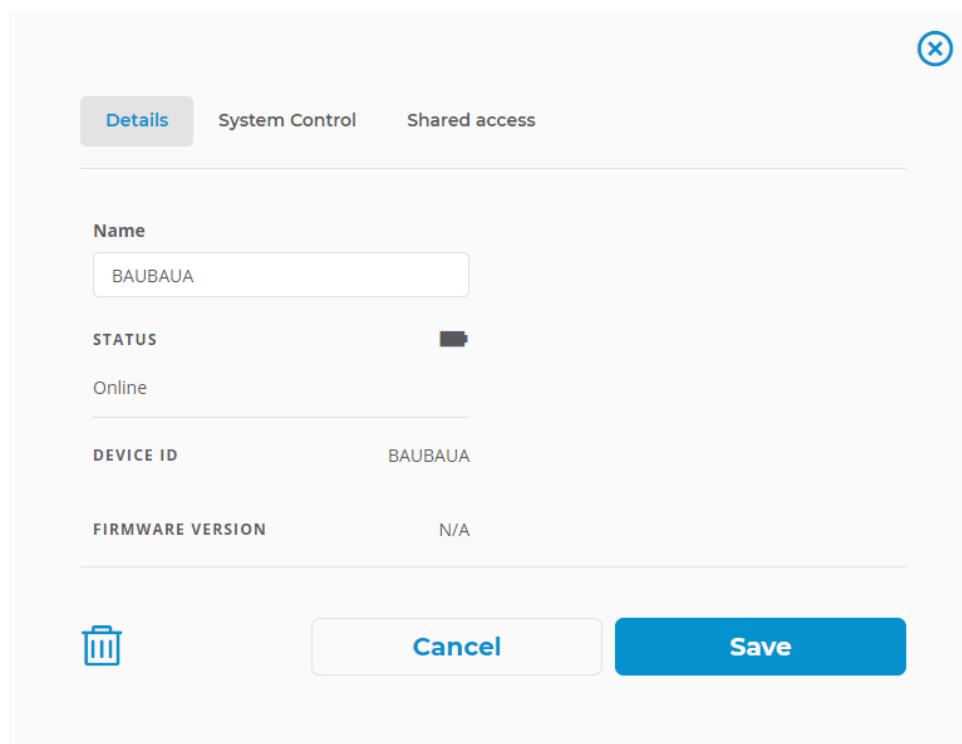
PRODUCT	POWER	STATUS	SIGNAL	REMOTE CONTROL
<input type="checkbox"/> BAUBAUA		Online		<button>↓ Lower</button>
<input type="checkbox"/> CH1G0JA		Online		<button>↓ Open</button>
<input type="checkbox"/> GPWYMJH		Online		<button>↑ Open</button>

Under the **Parking Lots** menu, users can manage the barriers. The Parking Lots tab contains all of the necessary information about the parking lots. Choosing the lot shows all added barriers. Controlling parking products is done in the same way as it is done in the **Dashboard** tab.

PRODUCT	POWER	STATUS	SIGNAL	REMOTE CONTROL
<input type="checkbox"/> BAUBAUA		Online		<button>↓ Lower</button>
<input type="checkbox"/> CH1G0JA		Online		<button>↓ Open</button>
<input type="checkbox"/> GPWYMJH		Online		<button>↑ Open</button>

Parklio™ PMS allows changing the name of the barrier as well as the auto-close option. By selecting the device name, it is possible to see who has access to it. It opens up a window with three tabs (Details, System control and Shared access).

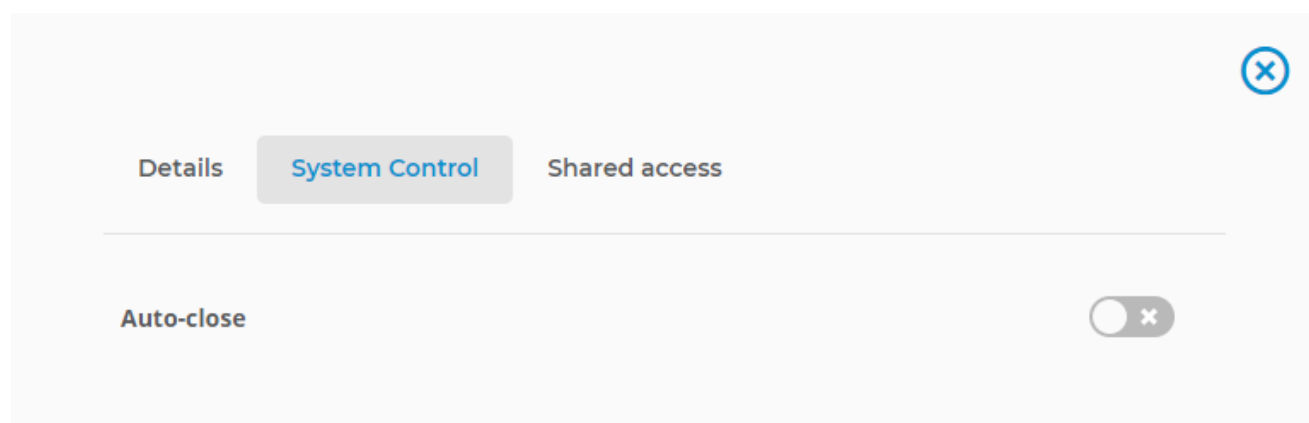
Details tab is used to change the barrier's name. Also, it shows the product ID, firmware version, and battery percentage information.



The screenshot shows the 'Details' tab of the Parklio PMS interface. At the top, there are three tabs: 'Details' (selected), 'System Control', and 'Shared access'. Below the tabs, there is a 'Name' field containing 'BAUBAUA'. Underneath, the 'STATUS' is 'Online' with a battery icon. Below that, the 'DEVICE ID' is 'BAUBAUA' and the 'FIRMWARE VERSION' is 'N/A'. At the bottom, there is a trash icon, a 'Cancel' button, and a 'Save' button. A close button (X in a circle) is in the top right corner.

The **System Control** tab is used to control the auto-close option, which may be turned on or off. Setting the auto-close time is only possible via the Connect app (Device settings).

NOTE



The screenshot shows the 'System Control' tab of the Parklio PMS interface. At the top, there are three tabs: 'Details', 'System Control' (selected), and 'Shared access'. Below the tabs, there is an 'Auto-close' section with a toggle switch that is currently turned off (indicated by a grey circle and an 'X' icon). A close button (X in a circle) is in the top right corner.

The Shared access tab allows filtering all shared keys, Weblinks and pending keys by their email or start/end date for each barrier.

EMAIL	SHARED KEYS	
<input type="checkbox"/> john.doe@parklio.com	Start time: 21 Apr 2022, 13:40 End time: Unlimited	Active
<input type="checkbox"/> john.doe@parklio.com	Start time: 23 Mar 2022, 15:14 End time: 23 Mar 2022, 15:44	Blocked
<input type="checkbox"/> john.doe@parklio.com	Start time: 4 Mar 2022, 14:02 End time: 13 Mar 2022, 14:32	Blocked
<input type="checkbox"/> john.doe@parklio.com	Start time: 24 Feb 2022, 09:36 End time: 24 Feb 2022, 10:04	Blocked

■ 2.3. Gate Add and Manage

Adding Parklio™ Gate to Parklio™ PMS has the same procedure as adding barriers. Once the Gate has been added, PMS provides the same options as for the barrier. The only difference makes the **System control** tab where there is no auto-close option but the **Permanent-open** option.

NOTE: The Auto-close options need to be set when programming the Gate as it is shown in the User manual for the Gate:

<https://parklio.com/assets/support/gate/Parklio-Gate-UM.pdf>

■ 2.4. Chain Add and Manage

Adding Parklio™ Chain works similarly to adding a barrier. PMS provides the same options as for the barrier. Parklio™ Chain doesn't have the System control tab.

NOTE: Read more information about Parklio™ Chain:

<https://parklio.com/en/parking-protection/chain>

■ 2.5. Bollard Add and Manage

Adding Parklio™ Bollard works similarly to adding a barrier. PMS provides the same options as for the barrier. The only difference is that Parklio™ Bollard doesn't have the System control tab.

NOTE: More information about the Bollard can be found on this link:
<https://parklio.com/en/parking-protection/bollard>

■ 2.6. ANPR Camera Add and Manage

To add and manage ANPR Camera, take the following steps:

1. Camera SADP and HIK setup:

Step 1

If the network has a firewall enabled you may need to enable the camera to access the remote hosts it needs. The list of services is provided below:

HOST	PROTOCOL / SERVICE	PORTS
lpr.parklio.com	TCP	6011
lpr.parklio.com	TCP	7660
lpr.parklio.com	TCP	7333
lpr.parklio.com	TCP	7334
lpr.parklio.com	UDP	7332

Please be aware that the hosts may resolve to multiple IP addresses which may change at any given time.

To set up the camera a PC / MAC is required. The computer must be on the same network as the camera. For example: connect the camera to the same router as the computer or connect the computer directly to the camera via ethernet cable. For initial camera setup the SADP tool is required. It can be downloaded on the link below by typing and searching for SADP on the search bar:

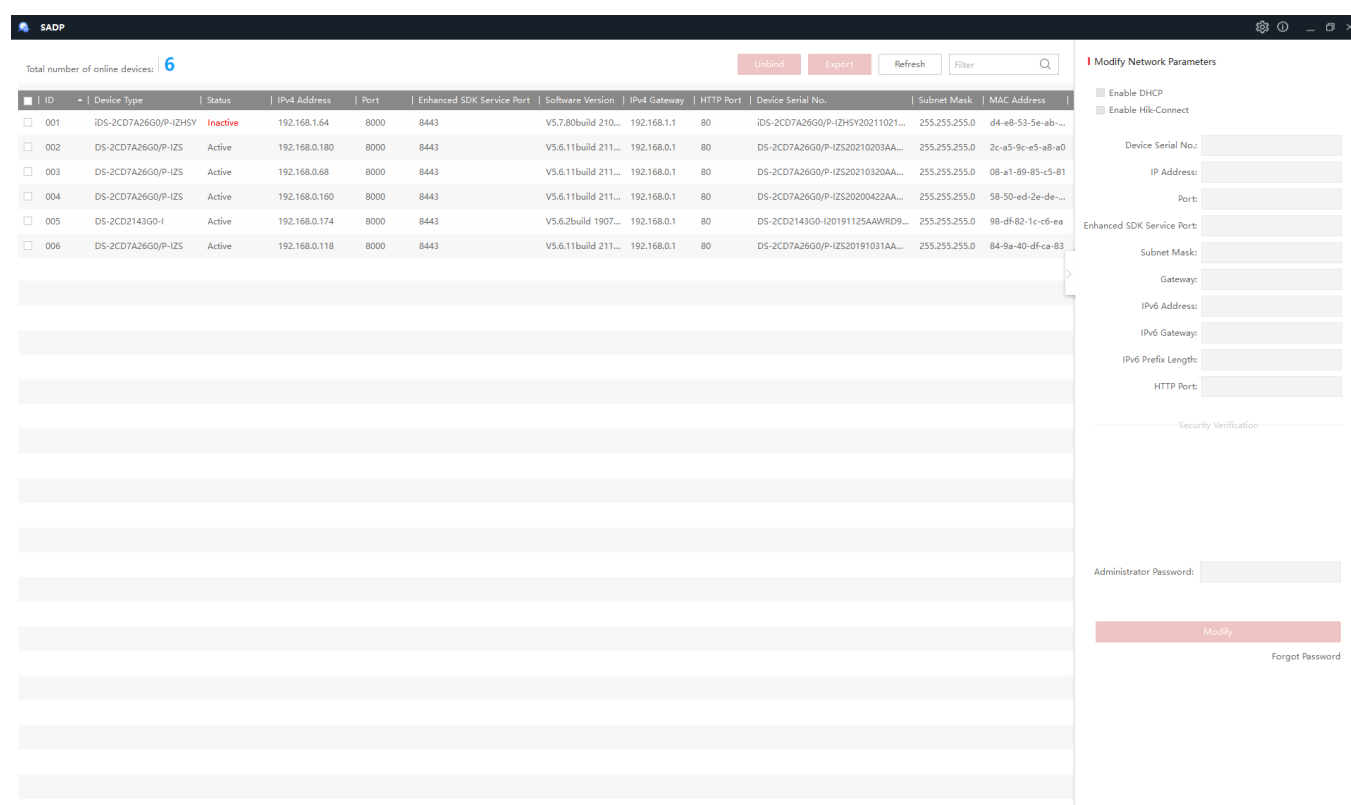
<https://www.hikvision.com/europe/support/tools/hitools/>

On the link write SADP in the search bar and download the file. SADP software is used for searching for online devices on the same network. It supports viewing the device information, activating the device, editing the network parameters of the device and resetting the device password, etc.

Note: On Windows machines the SADP tool can display a .dll missing error on start-up. This can be resolved by installing vcredist_x86.exe:

https://aka.ms/vs/17/release/vc_redist.x86.exe

Open the SADP tool and search the network for available devices:



The screenshot displays the SADP software interface. At the top, it shows 'Total number of online devices: 6'. Below this is a table of devices. The first device (ID 001) is marked as 'Inactive'. The right sidebar shows the 'Modify Network Parameters' window for the selected device. The table has the following columns: ID, Device Type, Status, IPv4 Address, Port, Enhanced SDK Service Port, Software Version, IPv4 Gateway, HTTP Port, Device Serial No., Subnet Mask, and MAC Address.

ID	Device Type	Status	IPv4 Address	Port	Enhanced SDK Service Port	Software Version	IPv4 Gateway	HTTP Port	Device Serial No.	Subnet Mask	MAC Address
001	DS-2CD7A26G0/P-IZHSHY	Inactive	192.168.1.64	8000	8443	V5.7.80build 210...	192.168.1.1	80	DS-2CD7A26G0/P-IZHSHY20211021...	255.255.255.0	d4-e8-53-5e-ab-...
002	DS-2CD7A26G0/P-IZS	Active	192.168.0.180	8000	8443	V5.6.11build 211...	192.168.0.1	80	DS-2CD7A26G0/P-IZS20210203AA...	255.255.255.0	2c-a5-9c-e5-a8-a0
003	DS-2CD7A26G0/P-IZS	Active	192.168.0.68	8000	8443	V5.6.11build 211...	192.168.0.1	80	DS-2CD7A26G0/P-IZS20210320AA...	255.255.255.0	08-a1-89-85-c5-B1
004	DS-2CD7A26G0/P-IZS	Active	192.168.0.160	8000	8443	V5.6.11build 211...	192.168.0.1	80	DS-2CD7A26G0/P-IZS20200422AA...	255.255.255.0	58-50-ed-2e-de-...
005	DS-2CD2143G0-I	Active	192.168.0.174	8000	8443	V5.6.2build 1907...	192.168.0.1	80	DS-2CD2143G0-I20191125AAWRD9...	255.255.255.0	98-df-82-1c-c6-ea
006	DS-2CD7A26G0/P-IZS	Active	192.168.0.118	8000	8443	V5.6.11build 211...	192.168.0.1	80	DS-2CD7A26G0/P-IZS20191031AA...	255.255.255.0	84-9a-40-df-ca-83

The right sidebar shows the 'Modify Network Parameters' window for the selected device. It includes fields for Device Serial No., IP Address, Port, Enhanced SDK Service Port, Subnet Mask, Gateway, IPv6 Address, IPv6 Gateway, IPv6 Prefix Length, and HTTP Port. There are also checkboxes for 'Enable DHCP' and 'Enable Hik-Connect'. A 'Security Verification' section is also present. At the bottom, there is an 'Administrator Passwords' field and a 'Forgot Password' link.

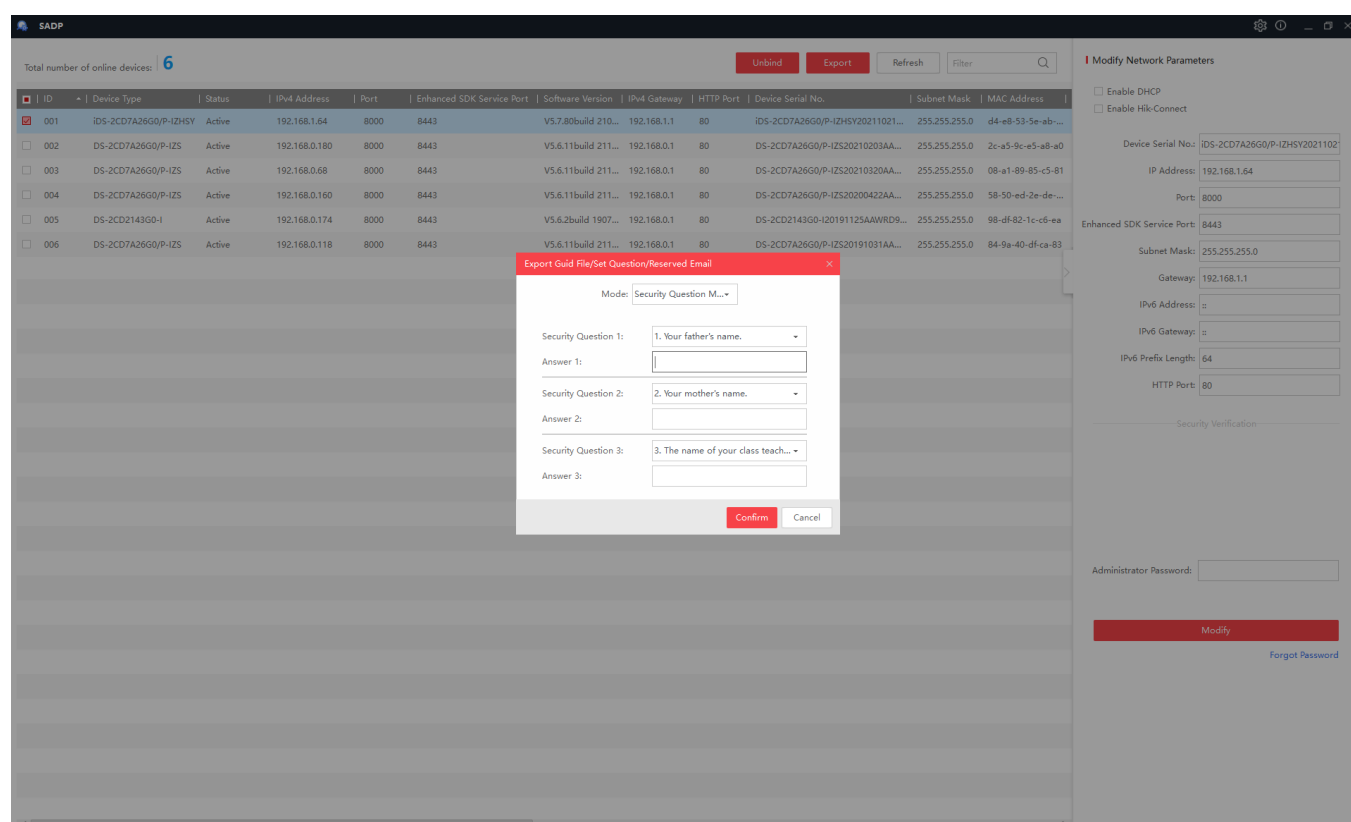
To activate the camera click on the check mark of the inactive camera after which the Activate the Device window will open on the right.

The first step is to set up the camera password.

Note: This password is only used for the Hik software and is not used for the Parklio PMS.

Once the password is set up click on activate which will activate the camera

After this a window will open where there will be a choice between setting security questions or an email address to recover the password in case the password is lost.



Once the recovery method for the password was chosen the necessary fields need to be filled out and after doing that the changes need to be saved by clicking on confirm.

Note: When clicking on the confirm button it is necessary to exit this window because it does not automatically close after confirming.

After this Enable DHCP and enter the password that was made in the Administrator Password tab and click on Modify.

SADP

Total number of online devices: 6

Unbind Export Refresh Filter

ID	Device Type	Status	IPv4 Address	Port	Enhanced SDK Service Port	Software Version	IPv4 Gateway	HTTP Port	Device Serial No.	Subnet Mask	MAC Address
001	IDS-2CD7A26G0/P-IZHSY	Active	192.168.1.64	8000	8443	V5.7.80build 210...	192.168.1.1	80	IDS-2CD7A26G0/P-IZHSY20211021...	255.255.255.0	d4-e8-53-5e-ab-...
002	DS-2CD7A26G0/P-IZS	Active	192.168.0.180	8000	8443	V5.6.11build 211...	192.168.0.1	80	DS-2CD7A26G0/P-IZS20210203AA...	255.255.255.0	2c-a5-9c-e5-a8-a0
003	DS-2CD7A26G0/P-IZS	Active	192.168.0.68	8000	8443	V5.6.11build 211...	192.168.0.1	80	DS-2CD7A26G0/P-IZS20210320AA...	255.255.255.0	08-a1-89-85-c5-81
004	DS-2CD7A26G0/P-IZS	Active	192.168.0.160	8000	8443	V5.6.11build 211...	192.168.0.1	80	DS-2CD7A26G0/P-IZS20200422AA...	255.255.255.0	58-50-ed-2e-de-...
005	DS-2CD2143G0-I	Active	192.168.0.174	8000	8443	V5.6.2build 1907...	192.168.0.1	80	DS-2CD2143G0-I20191125AAWRD9...	255.255.255.0	98-df-82-1c-c6-ea
006	DS-2CD7A26G0/P-IZS	Active	192.168.0.118	8000	8443	V5.6.11build 211...	192.168.0.1	80	DS-2CD7A26G0/P-IZS20191031AA...	255.255.255.0	84-9a-40-df-ca-83

Modify Network Parameters

☒ Enable DHCP
☐ Enable Hik-Connect

Device Serial No.: IDS-2CD7A26G0/P-IZHSY20211021

IP Address: 192.168.1.64

Port: 8000

Enhanced SDK Service Port: 8443

Subnet Mask: 255.255.255.0

Gateway: 192.168.1.1

IPv6 Address: ::

IPv6 Gateway: ::

IPv6 Prefix Length: 64

HTTP Port: 80

Security Verification

Administrator Password: *****

Modify

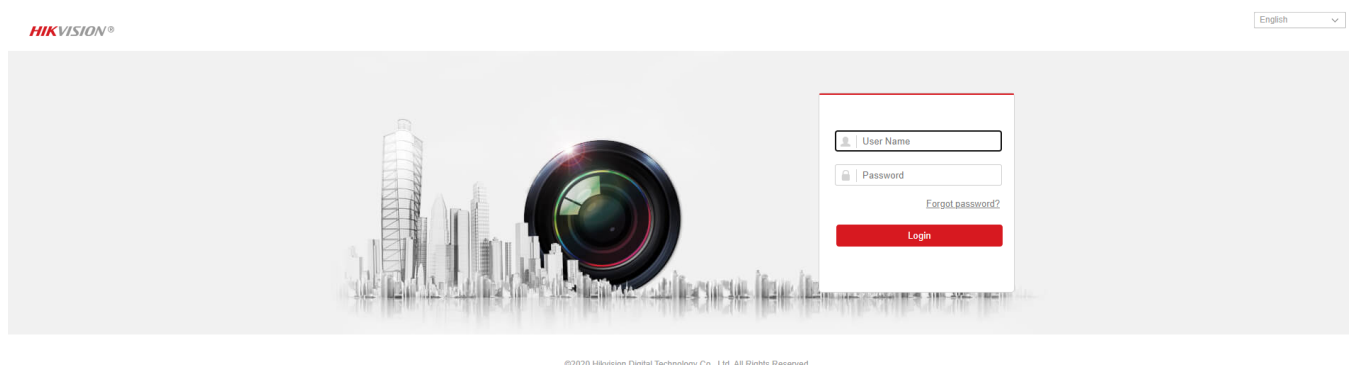
[Forgot Password](#)

Note: If a static IP address is required it is possible to setup a static IP address and network parameters in the SADP tool by disabling DHCP and entering network parameters.

After this, refresh the SADP software by clicking on the refresh button.

Note: In case the Ipv4 address is set to 0.0.0.0 refresh the SADP software by clicking on refresh or disconnect and reconnect the ethernet cable from the camera and refresh the SADP software.

Then double click on the Ipv4 address of the camera which will open a new window in the browser.



Here enter the password that was set up and in the User Name enter admin.

Note: The user name for each camera will always be set up as admin.

Once this is filled out, click on login.

From here go to VCA-> Road traffic->Arming Schedule and Linkage Method Select All and disable the Trigger Alarm Output by clicking on the checkmark next to the Trigger Alarm Output. This step needs to be done both for the Allowlist and the Other List. After that, click the Enable checkbox in order to enable vehicle detection:

The screenshot displays the Hikvision VCA configuration interface. The top navigation bar includes 'Live View', 'Configuration', 'Smart Display', and 'VCA'. The left sidebar lists 'VCA Resource', 'General VCA Settings', 'Road Traffic', and 'Road Traffic' (highlighted). The main area shows the 'Arming Schedule' for 'Road Traffic' with a 24-hour timeline for each day of the week. Below this, the 'Linkage Method' section is visible, showing 'Direction' set to 'All' and 'Normal Linkage' options: 'Send Email', 'Notify Surveillance Center' (checked), and 'Upload to FTP/Memory Card/...' (checked). The 'Trigger Alarm Output' section is empty. At the bottom, there are 'Copy to...' and 'Save' buttons.

Day	0	2	4	6	8	10	12	14	16	18	20	22	24
Tue													
Wed													
Thu													
Fri													
Sat													
Sun													

Linkage Method

Direction: ☒ All ☐ Forward ☐ Reverse

Normal Linkage	Trigger Alarm Output
<input type="checkbox"/> Send Email	<input type="checkbox"/> A->1
<input checked="" type="checkbox"/> Notify Surveillance Center	<input type="checkbox"/> A->2
<input checked="" type="checkbox"/> Upload to FTP/Memory Card/...	

Copy to... Save

©2021 Hikvision Digital Technology

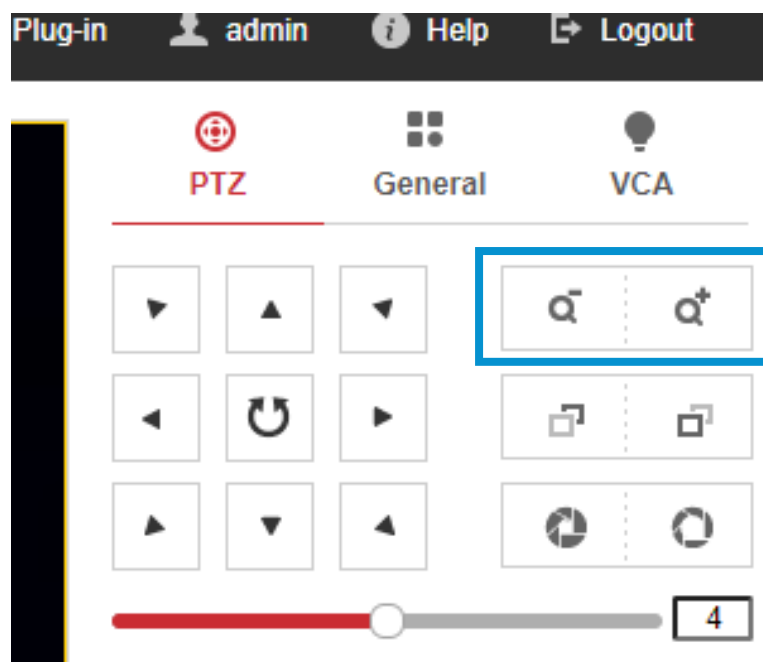
The next step is to set up the camera in a way that looks directly to the road where the license plates are to be detected. The camera should have the view of the whole lane on which the detection is going to be made.

Note: For better accuracy it is Optional/recommended to set up the zoom of the camera in a way that the image is clear. The camera/view should have a clear view of the whole lane on which the detection....

This is done by going to Live view which will open this window.



On the right side there will be a tab in which the camera view can be zoomed



After this, set the detection area.
By default they will be set like this:

The next step is to set the yellow lines so that they cover the road and the blue line needs to be placed so that the license plate passes through it.
As it can be seen here:



Note: The Yellow and blue lines are moved by clicking and holding the dots at the end of the lines.

Once this is set up, the Detection mode needs to be changed to: License Plate or Vehicle detection and the Time interval needs to be set to 1 minute. After these changes are made they need to be saved by clicking on save changes.

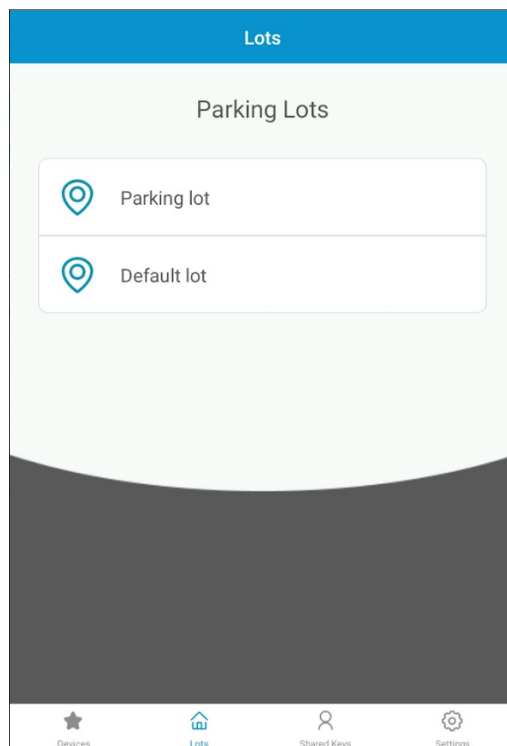
Total Number of Lanes	<input type="text" value="1"/>	▼
Region	<input type="text" value="Europe Region"/>	▼
Country/Region	<input type="text" value="General"/>	▼
Select Mode	<input type="text" value="Entrance/Exit"/>	▼
Detection mode	<input type="text" value="Vehicle Priority"/>	▼ ⓘ
<input checked="" type="checkbox"/> Remove Duplicated License Plates		
Time Interval	<input type="text" value="1"/>	minute(s)

 Save

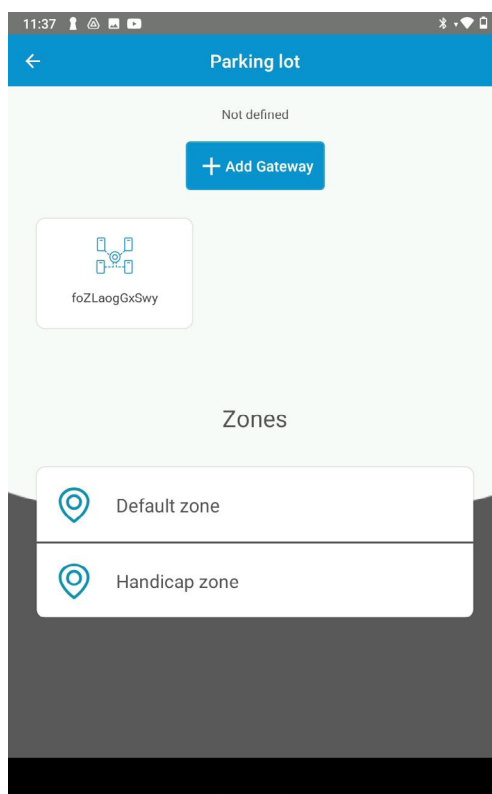
1. Open the Connect app on a mobile device or tablet.

NOTE: It is necessary to log in with the same credentials as used for PMS.

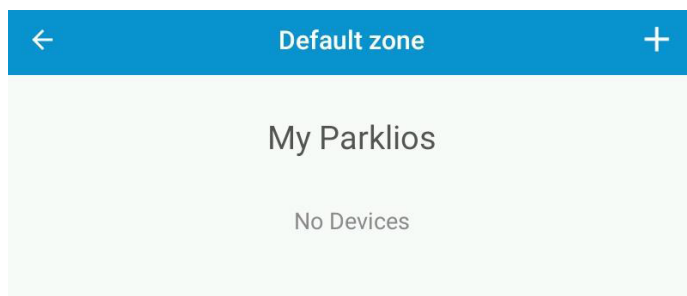
2. Press the lots tab and select the desired parking lot



3. Select the parking zone to which the camera will be added.



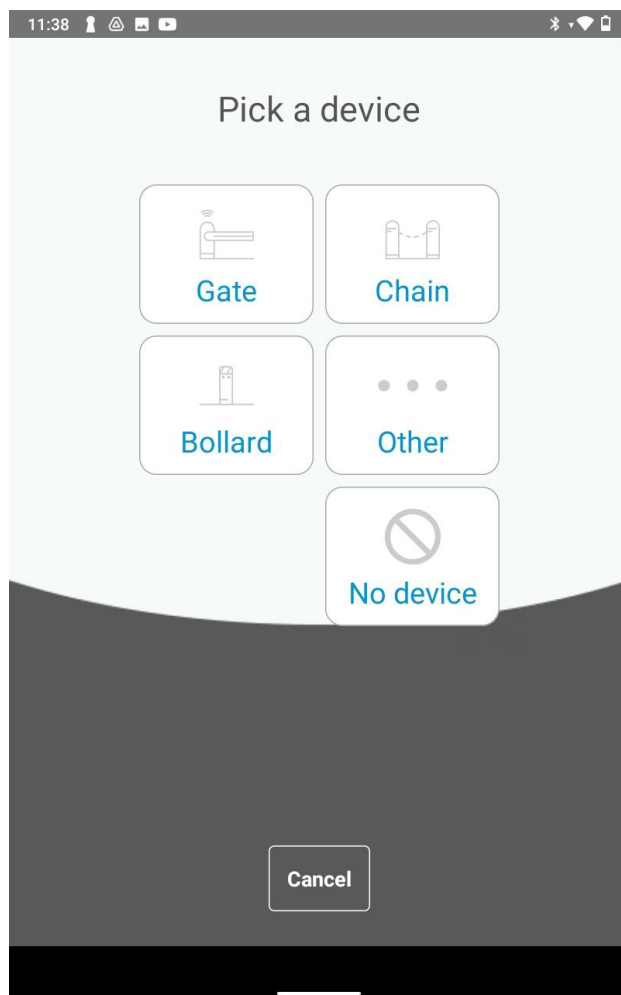
4. Click the Plus icon on the top right of the screen.



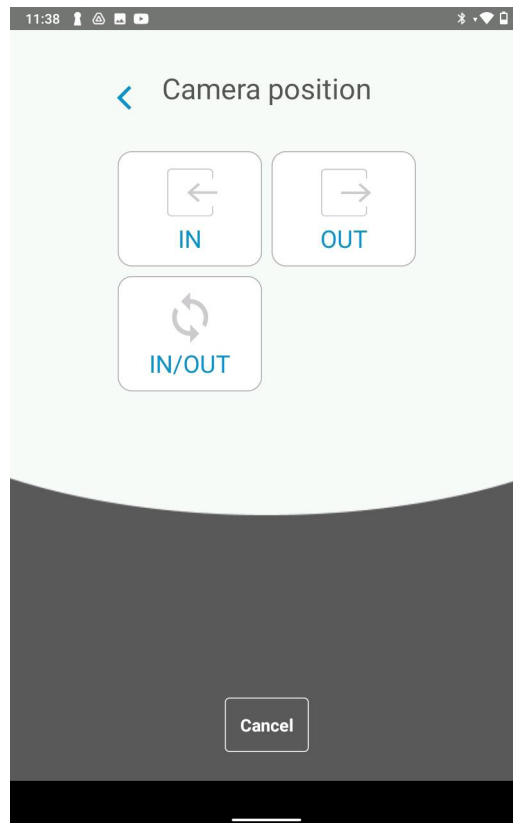
5. Scan the camera QR code that comes with the camera.

NOTE: In case the QR code was misplaced, send an email to support@parklio.com with the MAC address of the camera. The MAC address is located on a label on the bottom of the camera.

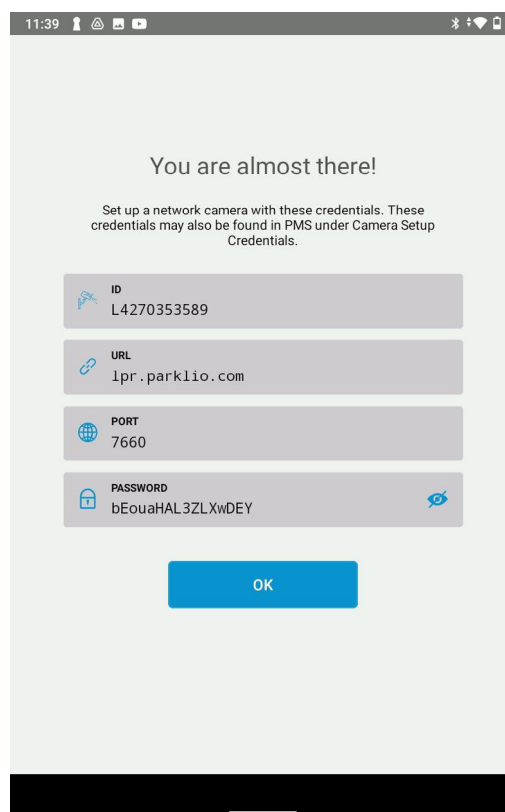
6. Select the device to connect with the camera.



7. Select the position of the camera (Options: parking entrance, parking exit and both entrance and exit).



8. In the Setup credentials tab (via PMS or Connect app), it is possible to check the device ID, URL, port and password for the camera.



NOTE: Click the eye icon to show the password.

9. Open the **SADP software** and double-click the IPv4 address of the camera.
10. **HIK** webpage opens automatically, enter the user name and password that was set up before.
11. Go to **Configuration / Network / Advanced Settings / Platform Access**.

12. Click the Enable button and change the following parameters:

- Server address with URL
- Port with the Port
- Device ID with the UUID
- Key with Password

NOTE: All the information can be found in the app (Device Settings -> Setup credentials or in the PMS under Camera Setup Credentials).

The screenshot displays the Hikvision web interface. The top navigation bar includes 'Live View', 'Configuration' (highlighted in red), 'Smart Display', and 'VCA'. The left sidebar shows a tree structure with 'System' and 'Network' expanded, and 'Advanced Settings' highlighted in red. The main content area is titled 'Platform Access' and contains the following settings:

- Platform Access Mode: ISUP (dropdown)
- Enable: ☒
- Protocol Version: ISUP5.0 (dropdown)
- Server Address: lpr.parklio.com (text input with a green checkmark)
- Port: 7660 (text input)
- Device ID: L4270353589 (text input with a green checkmark)
- Key: (password field with a green checkmark)
- Register Status: Offline (dropdown)

At the bottom of the configuration area, there are two buttons: a red 'Save' button and a white 'Test' button.

When everything is set up, save it and test it. Once the test is finished, refresh the page to check if the camera is online.

NOTE: It will take a few minutes for the camera to go from offline to online. When the camera has been added to the HIK software, the camera should be connected and online within Parklio™ PMS. Add the plate number and test how Parklio™ PMS is working.

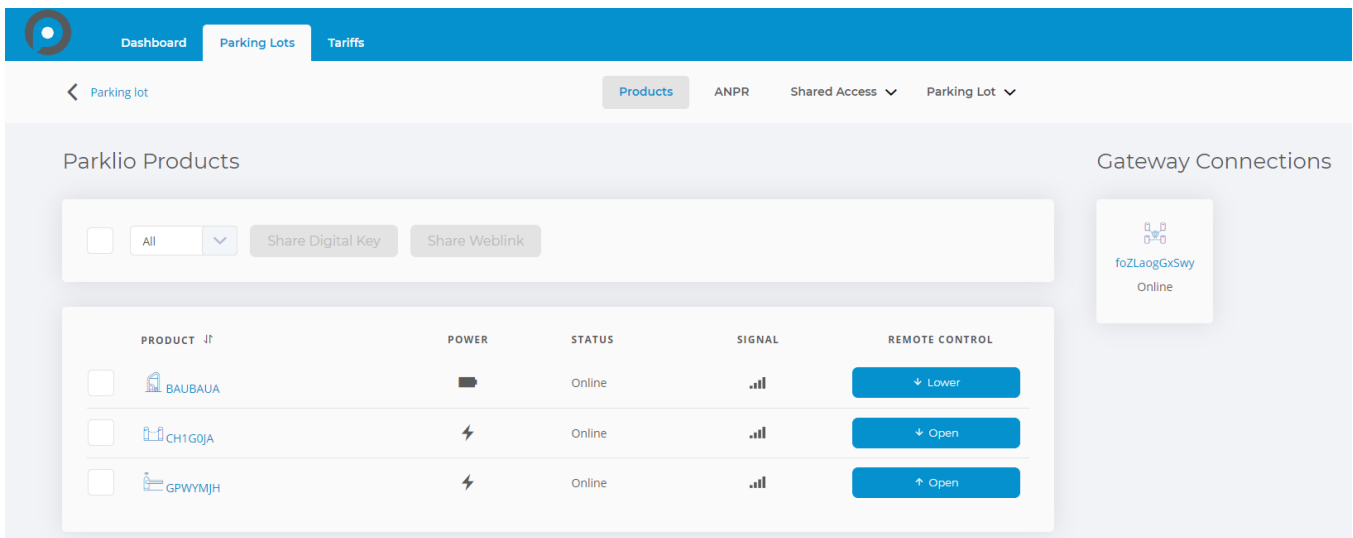
3. Manage the Parking lot

on your PMS Account

3.1. Products

To open the **Products** tab, go to the **Parking lot** tab and choose the desired parking lot.

Under the Products tab, there is a list of all products added to the parking lot. It is possible to control products remotely and share digital keys and weblinks to give access to parking lots.

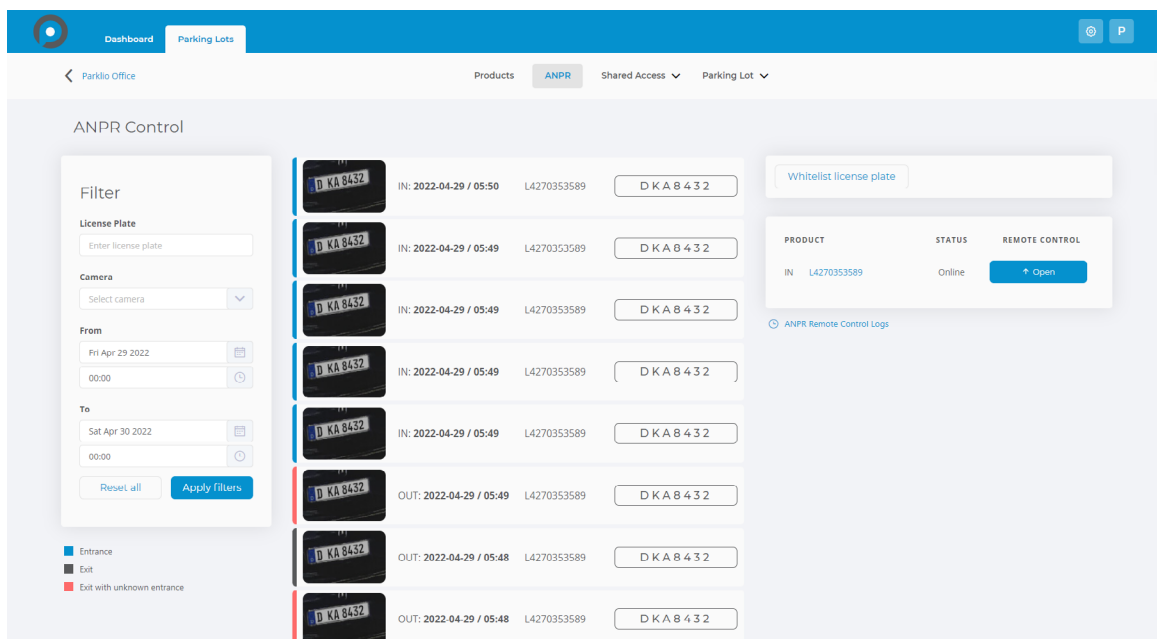


The screenshot shows the 'Products' tab in the Parklio interface. At the top, there's a navigation bar with 'Dashboard', 'Parking Lots', and 'Tariffs'. Below it, a breadcrumb trail shows 'Parking lot' > 'Products'. The main area is titled 'Parklio Products' and features a filter dropdown set to 'All', along with 'Share Digital Key' and 'Share Weblink' buttons. A table lists three products: BAUBAUA, CH1G0JA, and GPWYMH. Each row includes a checkbox, a power icon, a status (all are 'Online'), a signal strength indicator, and a 'REMOTE CONTROL' button with 'Lower', 'Open', or 'Up' options. On the right, a 'Gateway Connections' section shows a connection for 'foZLaogGxSwy' with an 'Online' status.

PRODUCT	POWER	STATUS	SIGNAL	REMOTE CONTROL
<input type="checkbox"/> BAUBAUA		Online		<button>↓ Lower</button>
<input type="checkbox"/> CH1G0JA		Online		<button>↓ Open</button>
<input type="checkbox"/> GPWYMH		Online		<button>↑ Open</button>

3.2. ANPR

To open the **ANPR** tab, choose the **Parking lot** tab and pick the desired parking lot. Click the ANPR tab to open the **ANPR Control** tab.




The screenshot shows the 'ANPR Control' tab. The navigation bar includes 'Dashboard', 'Parking Lots', and 'ANPR'. The breadcrumb trail is 'Parklio Office' > 'ANPR'. On the left, a 'Filter' panel allows filtering by 'License Plate' (with an input field), 'Camera' (a dropdown), and 'From'/'To' dates and times. Below the filter are 'Reset all' and 'Apply filters' buttons. The main area displays a list of license plate entries, each with a camera image, an 'IN' or 'OUT' status, a timestamp, a camera ID, and a license plate number. A legend at the bottom left indicates 'Entrance' (blue), 'Exit' (grey), and 'Exit with unknown entrance' (red). On the right, a 'Whitelist license plate' input field and a table with one entry (IN: L4270353589, Online, + Open button) are visible. A link for 'ANPR Remote Control Logs' is also present.

PRODUCT	STATUS	REMOTE CONTROL
IN: L4270353589	Online	<button>↑ Open</button>

The whitelist license plate button allows adding license plates that will have available access to the parking lot. It opens a window to enter the license plate and the duration users have access. To add the plate to the Whitelist, click Save.

NOTE: Entering the email and name for each license plate is optional.



Add license plate to white list

Only whitelisted license plates will be able to enter this Parking lot. You can optionally add the email and name of the parking lot guests for easier management in the Lot Access section.



License plate*

Guest Email (optional)



Guest Name (optional)

☐ Unlimited Access

Start Time

End Time

There is also a filter that allows sorting license plates based on the license plate number, detection time, and detection camera.

ANPR Control

Filter

License Plate

Camera

▼

From

📅









🕒

To

📅

🕒

■ Entrance
 ■ Exit
 ■ Exit with unknown entrance

	IN: 2022-04-28 / 12:03	L4270353589	<input type="text" value="D K A 8 4 3 2"/>
	OUT: 2022-04-28 / 12:02	L4270353589	<input type="text" value="D K A 8 4 3 2"/>
	IN: 2022-04-28 / 12:02	L4270353589	<input type="text" value="S T 6 6 7 1 R"/>
	OUT: 2022-04-28 / 12:01	L4270353589	<input type="text" value="D K A 8 4 3 2"/>
	OUT: 2022-04-28 / 12:01	L4270353589	<input type="text" value="D K A 8 4 3 2"/>
	IN: 2022-04-28 / 12:01	L4270353589	<input type="text" value="D K A 8 4 3 2"/>
	OUT: 2022-04-28 / 12:00	L4270353589	<input type="text" value="D K A 8 4 3 2"/>
	OUT: 2022-04-28 / 12:00	L4270353589	<input type="text" value="D K A 8 4 3 2"/>

By clicking the Open button on the ANPR tab, users may manually control the parking device. The device instantly opens.

PRODUCT	STATUS	REMOTE CONTROL
IN L4270353589	Online	<input type="button" value="↑ Open"/>

🕒 ANPR Remote Control Logs

34

■ 3.3. Shared Access

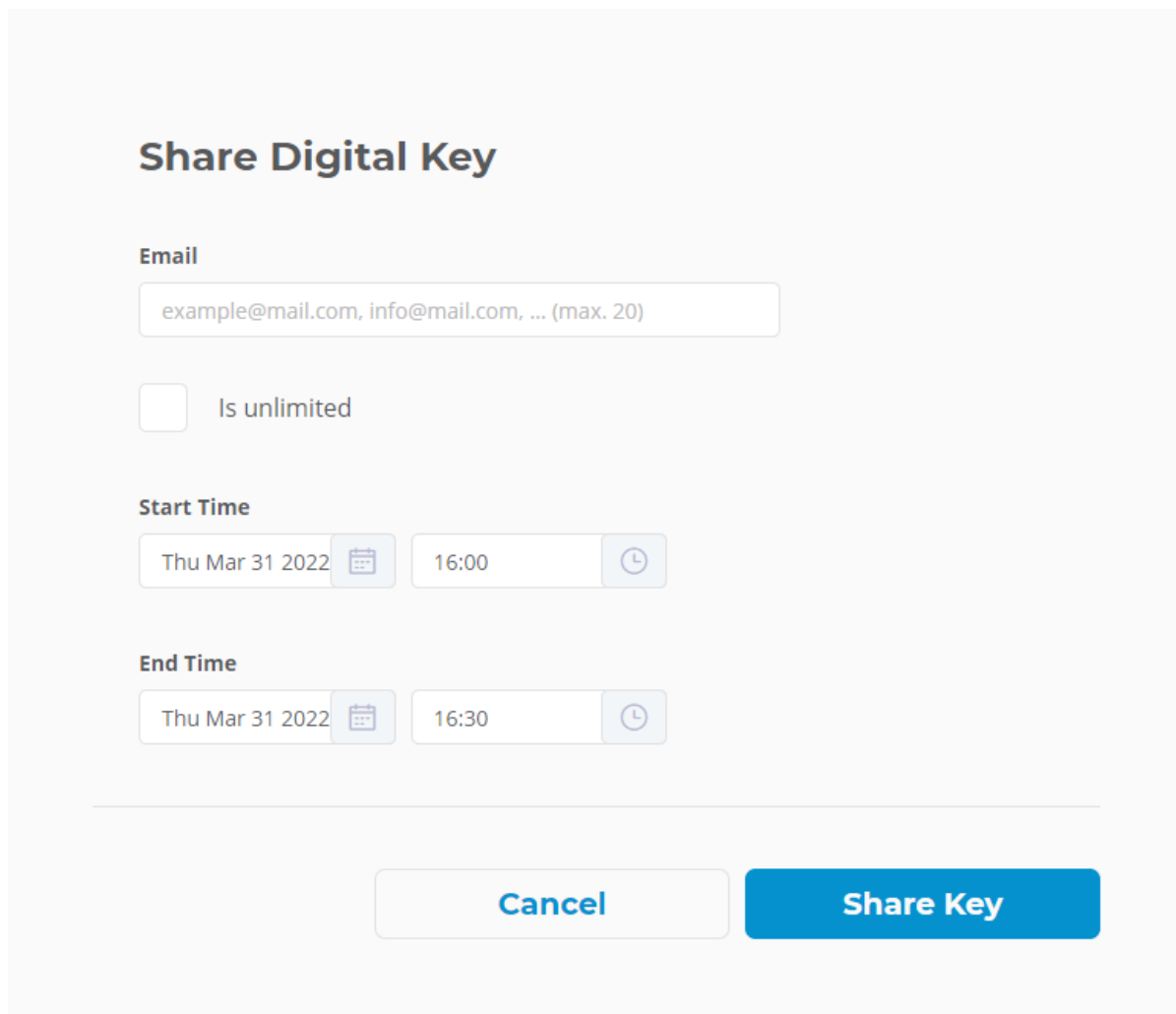
The **Shared access** tab is used to share keys and weblinks. It is also possible to provide access to new vehicles by entering their license plate numbers into the database. To go to the Shared access tab, go to the Parking lot tab and choose the relevant parking lot.

■ 3.3.1 Shared Keys

To share digital keys, choose the parking lot and the list with added Parklio™ products appears. To share keys, it is necessary to choose a parking product to which the user wants to provide access.

The **Share Digital Key** button opens a screen where users may specify who has parking lot access and the period of the active key. It is possible to set keys for an unlimited amount of time. To send the email and provide others parking lot access, click the **Share Key** option.

NOTE: Email invitations might end up in spam.



The screenshot shows a web form titled "Share Digital Key". It contains the following fields and controls:

- Email:** A text input field with the placeholder text "example@mail.com, info@mail.com, ... (max. 20)".
- Is unlimited:** A checkbox followed by the text "Is unlimited".
- Start Time:** Two input fields. The first is a date picker showing "Thu Mar 31 2022" with a calendar icon. The second is a time picker showing "16:00" with a clock icon.
- End Time:** Two input fields. The first is a date picker showing "Thu Mar 31 2022" with a calendar icon. The second is a time picker showing "16:30" with a clock icon.
- Buttons:** At the bottom, there are two buttons: a "Cancel" button and a "Share Key" button.

Sharing keys using the Connect app is quite similar.

Open the app, choose the product, click the **Share key** icon, and enter the required details.

NOTE: When sharing keys via the app, it is not possible to share a key for an unlimited period.

■ 3.3.2. Pending Access

The **Pending Access** tab is used to access all previously shared keys to resend keys or block them. It is possible to send or block multiple keys at once. Click the key to block or resend them. It is also possible to filter shared keys based on their status: pending, activated, blocked, expired, invalid, or deleted. The keys may be filtered by date and email address on the left side. The **Pending access** tab may be accessed through **Shared access**.

Pending access

Email
Enter email

Start Date
Start Date

End Date
End Date

Reset all Apply filters

All

	EMAIL	PRODUCT	SHARED KEYS	
<input type="checkbox"/>	john.doe@parklio.com	GPWYMIJH	Start time: 21 Apr 2022, 09:25 End time: Unlimited	Pending...
<input type="checkbox"/>	john.doe@parklio.com	CH1G0JA	Start time: 21 Apr 2022, 09:25 End time: Unlimited	Pending...
<input type="checkbox"/>	john.doe@parklio.com	BAUBAU	Start time: 21 Apr 2022, 09:25 End time: Unlimited	Pending...
<input type="checkbox"/>	john.doe@parklio.com	GPWYMIJH	Start time: 21 Apr 2022, 09:25 End time: 21 Apr 2022, 15:00	Pending...
<input type="checkbox"/>	john.doe@parklio.com	CH1G0JA	Start time: 21 Apr 2022, 09:25 End time: 21 Apr 2022, 15:00	Pending...
<input type="checkbox"/>	john.doe@parklio.com	BAUBAU	Start time: 21 Apr 2022, 09:25 End time: 21 Apr 2022, 15:00	Pending...
<input type="checkbox"/>	john.doe@parklio.com	GPWYMIJH	Start time: 21 Apr 2022, 09:25 End time: Unlimited	Pending...
<input type="checkbox"/>	john.doe@parklio.com	CH1G0JA	Start time: 21 Apr 2022, 09:25 End time: Unlimited	Pending...
<input type="checkbox"/>	john.doe@parklio.com	BAUBAU	Start time: 21 Apr 2022, 09:25 End time: Unlimited	Pending...
<input type="checkbox"/>	john.doe@parklio.com	BAUBAU	Start time: 21 Apr 2022, 09:24 End time: Unlimited	Pending...

■ 3.3.3. Weblink

Sharing web links is done for one-time users only. For everyone using parking lots only once, it is possible to share web links. It is not necessary to install the app, instead, it is possible to send a web link.

Select a product and then click Share Weblink. It shows a window similar to the one that appears when sharing a digital key regularly.

A web link can only be shared via Parklio™ PMS, while a digital key can be shared from both Parklio™ PMS and the Connect app.

NOTE: Check to see whether the email invitation was filtered as spam.

■ 3.3.4. ANPR access

The **ANPR Access** tab gives control over all the license plates that have access to the parking lot. It is possible to:

- Filter license plates by the status (Active or Expired)
- Search the lot to see a specific license plate and duration of shared access

It is possible to filter the license plates, click the **Apply** filter to search by the given information.

The screenshot shows the 'ANPR access' interface. At the top, there are navigation tabs: 'Products', 'ANPR', and 'Shared Access' (selected). Below the tabs, there are filters for 'License plate', 'Start Date', and 'End Date'. A 'Reset all' button and an 'Apply filters' button are at the bottom of the filter section. To the right, there is a table with the following data:

LICENSE PLATE	SHARED ACCESS
<input type="checkbox"/> DKA 8432	Start time: 21 Apr 2022, 09:26 End time: Unlimited Active

It is possible to withdraw access by checking the license plate and clicking the **Remove access** button.

The screenshot shows the 'ANPR access' interface with the 'Remove access' button highlighted. The table below shows the license plate 'DKA 8432' with a checked checkbox in the first column.

LICENSE PLATE	SHARED ACCESS
<input checked="" type="checkbox"/> DKA 8432	Start time: 21 Apr 2022, 09:26 End time: Unlimited Active

It opens a window for extra confirmation. When confirmed, the chosen license plate will no longer have access to the parking lot.

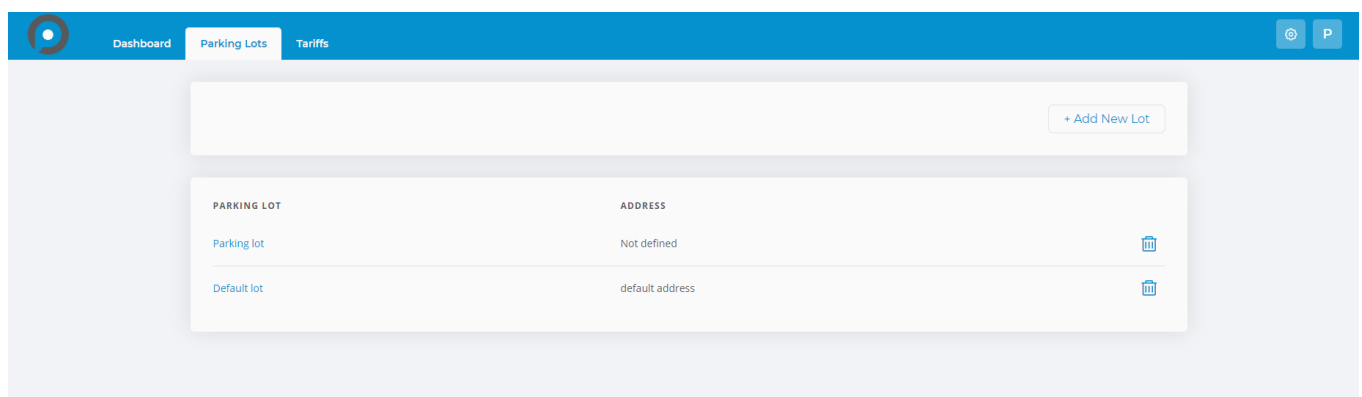
Are you sure you want to remove access for all selected License Plates?

No

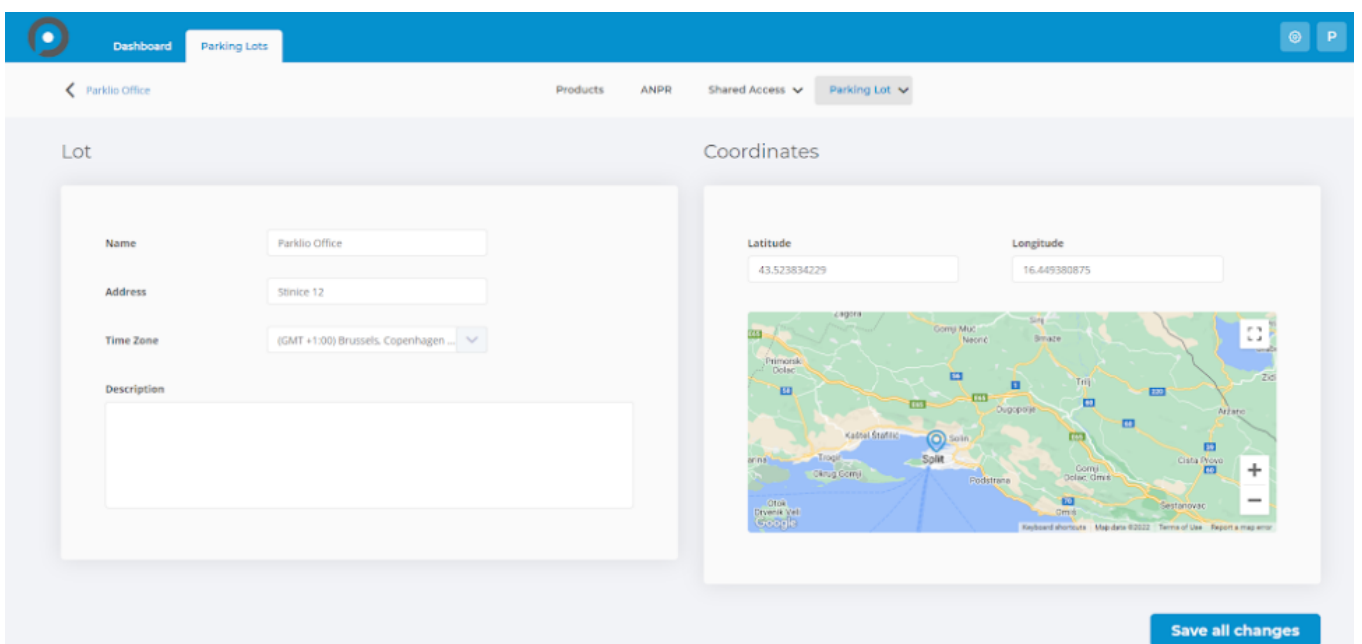
Yes

■ 3.5. Parking lot

The Parking lot tab shows the list of all added parking lots and allows adding and deleting lots.



The Parking lot tab opens the **Parking lot** page allowing control of products and zones, as well as access to the ANPR system. To add a new parking lot, click the button **+ Add New Lot** and fill in the needed information (Name, address, GPS coordinates, etc.). Save information and create a new lot.



To delete a parking lot, click the trash icon on the right side of a parking lot page. A confirmation window appears to verify the order.



Deleting a parking lot removes all products and zones as well

■ 3.5.1. Parking lot info

The **Info** section offers information about the parking lot as well as editing options based on the parking configuration and requirements. To access it, click the **Parking lots** tab, choose the parking lot and click **Info**.

PRODUCT	POWER	STATUS	SIGNAL	REMOTE CONTROL
<input type="checkbox"/> BAUBAUA		Online		<button>↓ Lower</button>
<input type="checkbox"/> CH1G0JA		Online		<button>↓ Open</button>
<input type="checkbox"/> GPWYMJH		Online		<button>↑ Open</button>

It is possible to edit the parking lot name, address, GPS coordinates, time zone, and add a description to the lot. To save new information, click **Save all changes**.

Lot

Name:

Address:

Time Zone:

Description:

Coordinates

Latitude: Longitude:

Save all changes

■ 3.5.2. Parking Managers

The **Parking Managers** tab contains the list of all managers in the Parking Management System.

Super Admins have insight and control of any part of the PMS and they can add other users and give them different roles:

- **Operator** – Adds products to PMS, controls the products and manages parking products added to the parking lot.
- **Admin** – Doing the operations as Operator, with the possibility of viewing reports and statistics. Able to make changes to the Tariffs and Zones tab. Admins can also add Operators.
- **Super Admin** – Having complete access to everything, able to add or delete Operators, Admins and Super Admins



Super Admins are unable to remove themselves from the list of Parking Managers. It can be done from another Super Admin.

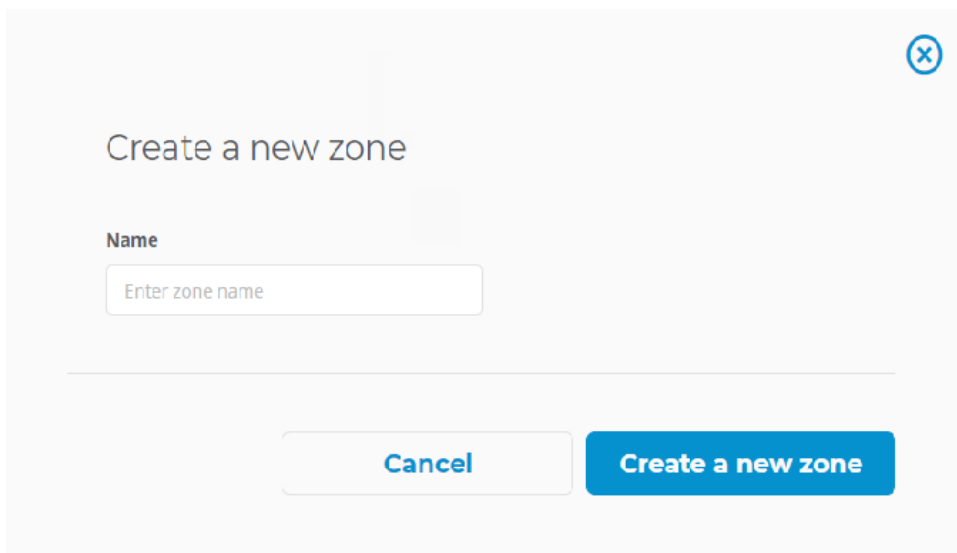
■ 3.5.3. Zones

The **Zones** tab can be used to separate large parking lots into smaller lots. The parking lot is split into two zones (Default Zone and Handicap Zone) by default.

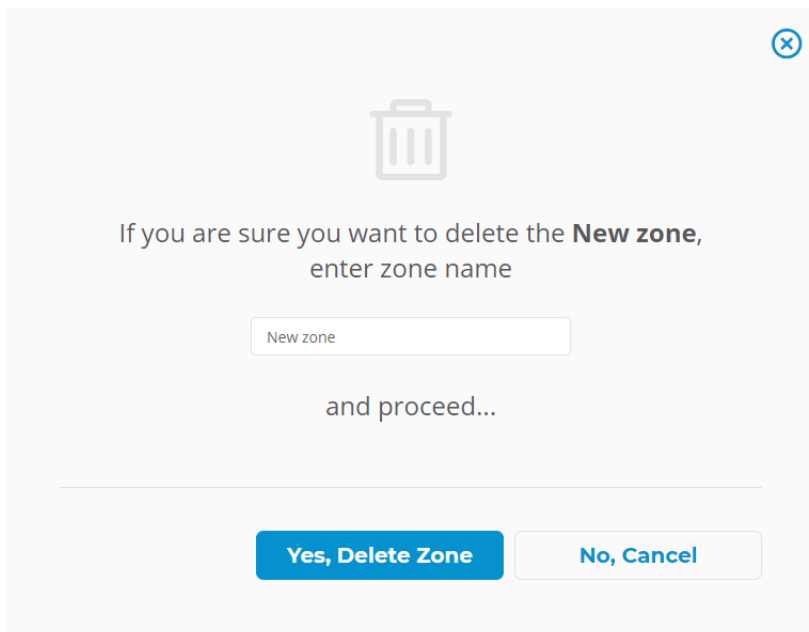
The screenshot displays the 'Zones' management page. At the top, there's a navigation bar with 'Products', 'ANPR', 'Shared Access', and 'Parking Lot'. Below this, the 'Zones' section has a dropdown for 'Default zone' and a '+ Add new zone' button. A 'Save all changes' button is in the top right. The main area shows two zone cards. The first card, 'Default zone', has a 'Public entrance' toggle, a 'Products' list with four items (L4270353589, BAUBAUJA, CH1G0JA, GPWYMJH), and a 'Delete Zone' button. The second card, 'Handicap zone', is similar but currently has no products listed.

It is possible to add different products and set tariffs for each zone.

Clicking **Add new zone** button opens the window to create a new zone.

A light gray dialog box with a close button (X) in the top right corner. The title "Create a new zone" is centered at the top. Below it, the label "Name" is positioned above a text input field containing the placeholder text "Enter zone name". At the bottom of the dialog, there are two buttons: a light gray "Cancel" button and a blue "Create a new zone" button.

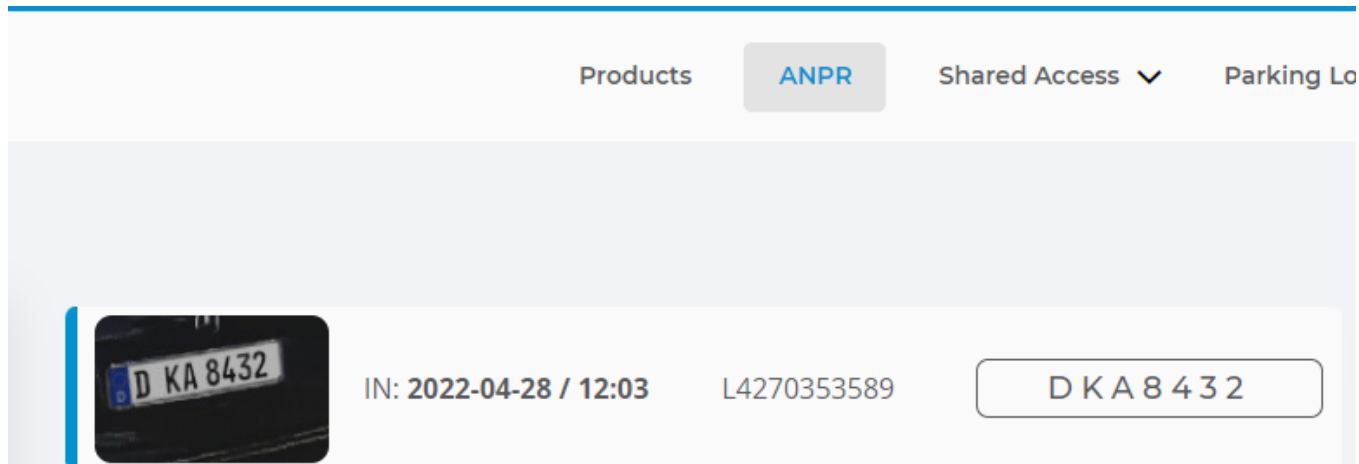
When the new zone is added to the Zones tab, it is possible to change the zone name, add tariffs or delete the zone. When deleting the zone, the PMS system shows a window to confirm the command.

A light gray dialog box with a close button (X) in the top right corner. At the top center is a trash can icon. Below the icon, the text reads "If you are sure you want to delete the **New zone**, enter zone name". Underneath is a text input field with the placeholder text "New zone". Below the input field, the text "and proceed..." is displayed. At the bottom, there are two buttons: a blue "Yes, Delete Zone" button and a light gray "No, Cancel" button.

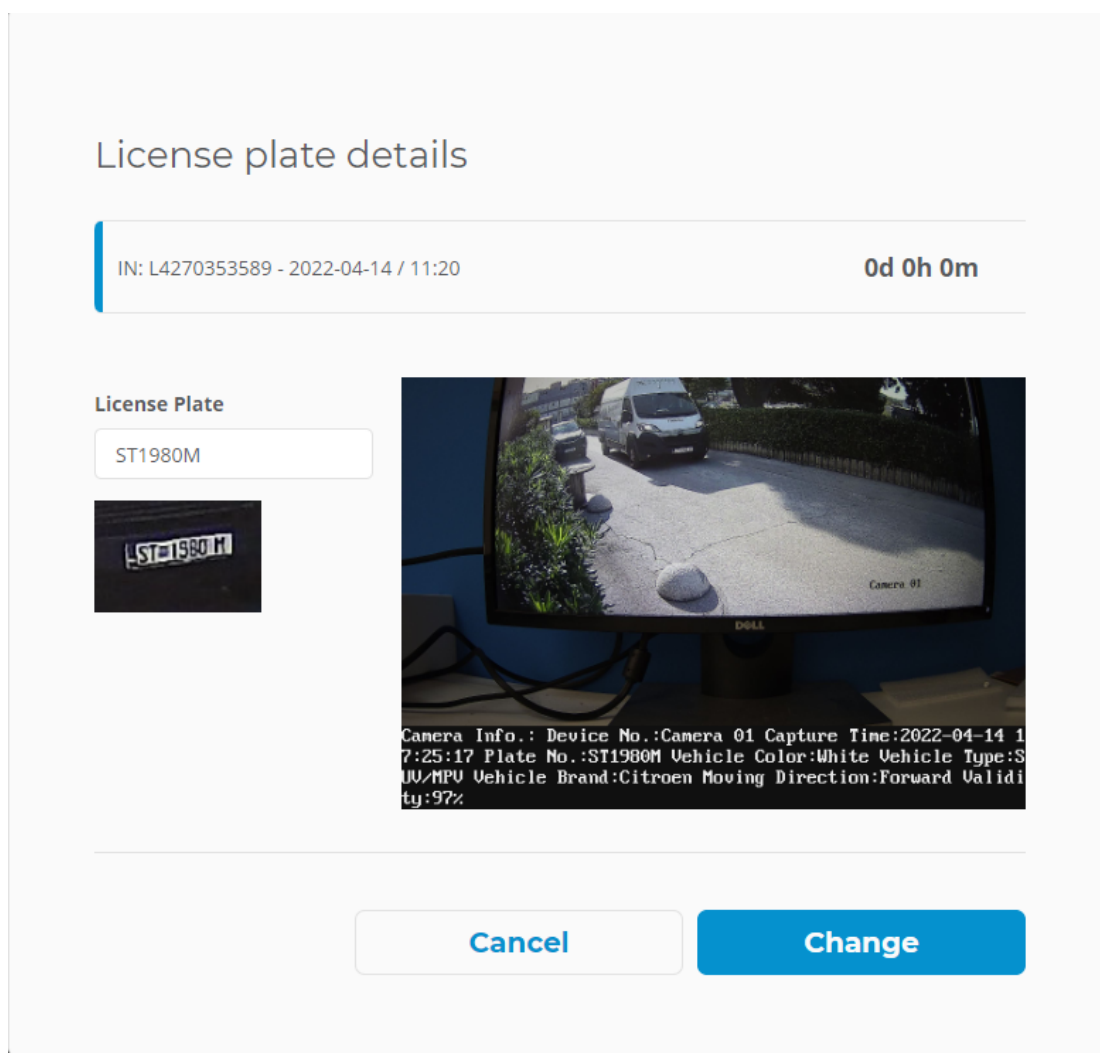
Once you delete a zone, all added products will also be removed from the PMS account.

■ 3.5.4. ANPR Image Storage

To access the ANPR image storage, it is necessary to contact the sales team to purchase a subscription plan for up to 12 months. The ANPR Image Storage system allows you to see license plates and vehicles using the lot. Access the storage within the **ANPR** tab.



Clicking the **License plate** opens the window showing all the License plate details and a full photo of the vehicle.



4. FAQ

1. What is a car parking management system?

A car parking management system is software that is used to monitor and optimize parking lot occupancy. It can be used as an intelligent parking management system in cities or any other area with parking lots.

2. How do automated parking lot management systems work?

Parking management system definition includes parking fee, tariff description, and zone marking. Data is presented to parking lot visitors via mobile application, display, or other guidance system based on input from the parking management system. As a parking management system, automated parking lots can be used both outdoors and indoors. All smart parking protection devices used to protect and organize parking lots are included in parking management system equipment.

3. How to manage car parking?

Car parking should be managed in a way that provides complete transparency to visitors while maintaining high security standards and optimizing overall occupancy. When possible, customer feedback should be considered and implemented in the system. Both the car park operator and the visitors benefit from a well-managed parking management system.

4. Can I have multiple users with one license?

Yes, you can have an unlimited number of users with a single license. The number of cameras and security devices, on the other hand, is proportional to the number of licenses required. To be more specific, one license contains the following: 8 cameras and 4 gates/chains/bollards/brains, resulting in 20 parking devices.

5. Can I have multiple users with one subscription?

Yes, with any subscription model you select, there is no limit to the number of users that can be added. Your subscription choice determines the type and quantity of products you wish to manage with the PMS, but this does not restrict the number of users.

6. How many parking lots and parking managers can I have with one license/subscription?

You can have as many parking lots and parking managers as you like with a single license / subscription.

7. Can I use it on my mobile phone?

Yes, you can use Parklio PMS on your mobile phone, as the software is fully responsive. It will work on any device, including smartphones and tablets.