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1. Introduction

LetUgo is an automated entry and exit control software product. During the development of the application the main emphasis was put on quick and simple setup and manageability of the application. The LetUgo program provides the following features:

- creating complex entry rules (permission and prohibition),
- recording and storing entry and exit events (image, license plate number, time and location),
- to retrieve subsequently, list and export events,
- determining the time spent in the parking facility and the payable parking fee,
- setting the access privileges,
- opening gates and barriers manually.

The main purpose was to create an entry system that is built up of as few components as possible but still provides an easy to use, completely automated and fast management of vehicles.

Essential elements of the system are:

- digital license plate reader camera;
- entry and exit control gate technology (barrier, garage door etc.) installed with inductive loop (requirement: capable of sending contact signal);
- LetUgo software system (with the Carmen Parking Digital license plate reader engine);

System requirements: P4 2GHz CPU or equivalent, 1GB RAM (2GB for Windows 7), 100Mbit/sec or better LAN connection, Ethernet switch in case of more cameras, min. 1 available USB port (v2.0), min. 30GB HDD (approx. 30Mbytes for the application, the rest is for storing images, etc.), Windows XP SP3 or Windows 7 OS, HD ready (1366x768) or Full HD (1920x1080) screen resolution, 64MB dedicated video RAM, .NET Framework 3.5 (RESOURCES folder on the LetUgo Install Disc), Adobe Reader for the manuals (RESOURCES folder on the LetUgo Install Disc).

Figure 1: structure of the LetUgo
2. Installation

At installation startup the following massage will appear in case of missing .NET framework:

This setup requires the .NET Framework 3.5.
Please install the .NET Framework 3.5 and run this setup again.

It can be found in the RESOURCES folder on the LetUgo Install Disc.

1. The install program starts automatically after inserting the disc into the optical drive. The following window will appear:

If the AutoRun is disabled, navigate to the CD-ROM drive and double-click on “CD\INSTALL\LetUgo_Setup.exe”.
2. In the next window the END-USER LICENSE AGREEMENT must be read. Select I accept the agreement (I agree to the terms of this Agreement) to accept the agreement and then click the [Next] button to continue the installation process!

3. In the next step enter the license key. The license key is a 26-digit alphanumeric character string, which is delivered with the product. The field of the license key is divided into sections (6x4 + 1x2) to ease typing the key.

**NOTE!** The license key is valid only with the USB dongle, purchased for the software! The license key never contains zeroes and it can be found on the box of the USB dongle.
4. After typing the 26 character long license key click the [Next] button! As a next step the installer searches for already installed programs necessary for running LetUgo. In the next window the list of programs that are not installed (but required) will appear.

Click the [Cancel] button to cancel the installation.

5. To start installation process of missing components, click the [Next] button. During installation of the programs the following window will appear.
6. The destination folder can be selected in the following window.
7. In the next window some tasks can be selected to be performed after installation.

- The setup program creates a LetUgo shortcut icon on the desktop by checking the **Create a desktop icon** checkbox.

- The LetUgo application starts automatically at Windows startup by checking the **Start LetUgo at Windows startup** checkbox.
8. Before starting the installation the destination folder can be checked. The installation starts after clicking the [Install] button.

9. During the installation the following window shows the current step of the process:
10. When the installation is complete the following window will appear. Use the checkboxes
   • to open the LetUgo User Manual (View LetUgo User’s Manual);
   • to launch the application right after the installation has completed (Launch LetUgo).

11. To finish the installation click on the [Finish] button!
3. First startup

The application provides possibility to choose the desired language at the first startup:

4. Main Screen of the LetUgo

After the application is started, the following main screen with the login window is displayed:
Enter the username and the password then click on the [OK] button to enter the program. The application can be closed by clicking the [EXIT] button.

**NOTE!** At the first login use admin login name and password to start using the program with administrator privileges. **Change the password after the installation! For more information on changing the password see the 4.4.1 Users menu item.**

The resolution of the application depends on the parameters of the used computer. The application will operate in a Full HD (1920x1080) resolution if it is possible. If the available screen resolution is less than Full HD, the application will operate in HD ready (1366x768) resolution.

If a camera is already added to the system, the **Lanes** menu will appear automatically after login. If not, the **Settings/Cameras** submenu will appear with a warning message (see below).
5. Menu Items

5.1 Lanes

By clicking the [Lanes] button in the left side, the following window will appear:

**NOTE!** The layout of the screen depends on the number of used cameras (4, 2 or 1 used camera(s)).

The color of the **Lane** menu indicates the current event. This button can be seen at all menus, so the operator can identify the following events:

- if the button is GREEN, a “Drive in” event is in progress (After a few seconds, it turns to the standard color),
- if the button is YELLOW or RED, the application is waiting for user intervention (On user intervention, it turns to the standard color).

In case of multiple camera usage the live image of the cameras can be seen parallel on the minified screens. These screens include the recognized plate text and an [OPEN] button signaling the type of the current event with its color:

- Green: AUTHORIZED
- Yellow: UNAUTHORIZED
- Red: ACCESS DENIED

One of the minified screens is always active (marked with its altered frame color). A screen can be activated by simply clicking on it.
The following screen layouts can be seen depending on the number of the used cameras.

**Four-camera layout:**

![Four-camera layout image]

**Two-camera layout:**

The color of the [OPEN] button at the main- and the minified screens turns to purple in case of no motion.
One-camera layout:

1a. Name of the access point.

1b. Direction of the access point: INCOMING / OUTGOING / UNDEFINED.

2a. Camera view: live image of the access point.

2b. Two Overview cameras can be assigned to one access point. Live image of these cameras can be selected by clicking the squares of the top-right corner of the live image. These squares will only appear if at least one overview camera is assigned to the access point.


4. Open button: by clicking the Manual open button the program opens the bars or gates independently from the permissions, prohibitions or other processes. The program captures an image of the opening process by all means, whether there was a recognized number plate in it or not.

5. Recognized plate: the recognized and identified license plate can be seen in this field.

6. Corrected plate: in case of a false recognition (e.g.: muddy or snowy license plate) the plate number can be corrected manually by clicking the [EDIT] button and attached to the current event. After the correction the system checks the permission again. As a result of this correction the event can change to authorized (automatic) drive in or waiting for manual opening (no permission or blacklisted vehicle).

NOTE! License plate characters have to be entered without dashes and spaces! E.g. in case of ABC – 123 the ABC123 has to be entered.
NOTE! In case of misrecognized license plates – if they are not corrected by the operator – the list of cars within the parking facility and the parking time calculation will be incorrect!

*Tip: the corrected license plate can be saved by the Enter key.*

7. **Details:** in this part of the screen the permission, type, color, owner’s name and the permission’s expiration date of the successfully identified and authorized vehicle can be seen.

8. **Events:** previous events of the access point are listed here (according to the vehicles’ license plate, the exact date and the type of the event).

   **NOTE!** In case of four camera usage, click the Details/Event button to switch between the Details and Event lists.

9. **Help:** Click this button or press **F1** to open the User’s Manual.
5.1.1 Steps of the Entry Process

1. The system is waiting for an event. Status: „Waiting”
2. A vehicle arrives to the access point. The trigger status indicator turns to green.
3. The camera captures an image of a vehicle. Status: „Capturing images”
5. If there is no permission examination of the checkpoint according to the settings in 5.4.3 Cameras section, OR the vehicle has a valid permission (5.2 Permissions) (AND it is not blacklisted), then the status of the drive through event will be AUTHORIZED. If the parking lot is not full and if anti-passback violation did not occur (monitoring of the anti-passback violation is turned off), the [OPEN] button and the [Lanes] menu button will be green and the barrier will open automatically. Moreover, a “Drive in” event will be added to the list. If the parking lot is full or an anti-passback violation occurred, the [OPEN] button and the [Lanes] menu button will turn to yellow and the application will wait for manual open command. If the barrier opens, a “Drive in” event will be added to the list. In case the barrier does not open, a “Backing up” event will be generated.

NOTE! Only the barrier opening is affected by the settings of the permission. The analysis of the permission is done regardless of this process. Green will be only vehicles with permission. The permission check of the camera controls only the barrier status: whether it opens for “Red” and “Yellow” vehicles or not.
If the vehicle has no permission, then the event will be **UNAUTHORIZED**, the background of the [OPEN] button and the [Lanes] menu button turns to **yellow** and the system waits for an external intervention that can be:

a. Manual opening: in this case, a “Manual drive in” event will be generated and the system considers the vehicle entering.

b. Reversing from (loop signal stops): the event will be saved ("Backing up" type), but the system does not consider the vehicle entering.

6. Correction of the recognized license plate: if the corrected license plate is authorized (it is on the permissions list), the procedure in the 5th point is the next step.
7. If the license plate is blacklisted (**4.4.2 Blacklist**) then the event will be **ACCESS DENIED**, the [OPEN] button and the [Lanes] menu button turns to **red** and the system waits for an external intervention as at the 5th step. If the operator lets the vehicle in by the [OPEN] button, a “Blacklisted drive in” event entry will be added to the list.

![Image of a vehicle with a license plate and a red open button]

8. The event is added to the event list and the system waits for a further event (1st step).

**NOTE!** The above process can be started by the user by clicking the [OPEN] button (in this case, the camera does not detect the event, but the user starts it regardless to the trigger of the camera). The above process will be done in this case as well except the following differences:

- license plate correction is not possible at driving in (of course it can be done in the result list afterwards)
- the barrier will open at all means, whether there was a license plate with permission in the captured image or not.

### 5.1.2 Manual Lead out with Plate Matching

A vehicle can be lead out in case of such **OUTGOING** events, when it can not be decided whether the outgoing, unauthorized vehicle is inside the parking facility or not (e.g. the operator has not corrected the misrecognized plate text on vehicle entry). Since the ‘entry plate’ is not available for the mentioned vehicle, the operator has to match the number plate manually, by choosing from the cars’ within the facility in order to establish parking fee. This process is necessary to let the vehicle out and can be executed by clicking on the [PARKING CAR LIST] button. It is located at the details and opens the list of cars within facility.

The following screenshots are in pairs, depending on whether the PARKING CAR LIST is opened, or not:
One-camera layout:

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Two-camera layout:
Four-camera layout:
5.2 Permissions

The entry and exit is granted for authorized vehicles only. Permissions are assigned to license plates (with exact matching). The system allows entry and exit of the successfully identified vehicles with valid permission automatically and also creates a log of entry/exit events.

By clicking on the [Permissions] button on the left side, the following screen will appear:

Permissions can be seen in the appearing list.

Steps of filtering:
- select the field you want to filter (by checking the checkboxes before the Plate, Owner, From and To)
- enter the characters to filter for and/or set the time interval
- clicking on the [SEARCH] button, the list will be updated and displayed according to the newly entered filtering options

Filter criteria:
- Plate number: all characters of the license plate or any part of it can be entered. For example: if the user enters only the first two characters, the program will display all plate numbers that contain the entered characters.
- Owner: the full name or any part (characters) of it can be entered as in case of the previous filtering option.
- Starting and end date (From - To): by the drop-down calendar the issuing and the expiration date of the permission can be specified as filtering criteria. In this case the program will display all permissions that fall
within the specified interval (e.g. owner AB has a one year permission from 01-Jan-2009 to 31-Dec-2009, owner MN has a permission from 15-Mar-2009 to 14-Apr-2009 and owner XY has a one day permission from 01-Dec-2009 to 02-Dec-2009. If the starting date is set to 01-Jan-2009, all three permissions will be displayed. If the end date is set to 30-Sep-09, only permissions of the AB and MN owners will be displayed. If both dates are set (from 01-Apr-2009 to 01-Dec-2009), all three permissions will be displayed because the specified interval is covering all three expiration dates).

The license plate in the selected line can be added to the blacklist by the [ADD TO BLACKLIST] button or can be removed from it by clicking [REMOVE FROM BLACKLIST]. License plates on the blacklist are marked with gray background in the table.

**NOTE!** By adding a license plate to the blacklist, its permission is not invalidated: it will be on the blacklist and on the permission list at the same time. Such license plates are not allowed to enter, because the priority of the blacklist is higher than the permission list’s in the evaluation process. This method is useful when removing plates from blacklist as the permissions of these plates remain.

The current list can be saved in .csv format with the [EXPORT] button and it can be inserted into a spreadsheet program for further processing. After clicking [EXPORT], both events of a specified period and all events can be exported.

**NOTE!** The header and the records are exported into separate files in this way providing flexible processing possibilities for users. Note, that event lists containing more than 2500 records are exported in more data files (max. 2500 lines/file).

*Tip: it can be arranged into ascending/descending order by clicking on the headlines of the column (permissions are listed in alphabetical order according to the number plate by default).*
5.2.1 New Permission

New permissions can be added by clicking the [NEW] button in the Permissions menu.

- **Plate**: Filling the number plate text field is necessary; filling any other field is optional. **NOTE!** Checking of the permission is based solely on the license plate! No other data has any effect on establishment of the permissions!

- **Cameras**: The camera (access point), on which the permission is valid. Check the checkbox to select the camera.

- Data referring to the color, type and owner of the vehicle are ignored during the identification. In case of successful license plate based identification the above information appear in the Lanes menu.

- **Contact info** and **Note** fields: text information that is displayed in the Lanes interface for the user as well. They also have no effect on the recognition process or the establishment of the permission!

- Time specification for permissions can be of two types: in case of the first type, a period can be specified (during which settings are valid), in case of the second one, a weekly recurrent, day-specific rule can be created. By default, a one-month long period is set. In order to switch to the weekly recurring method, check the WEEKLY RECURRING PERMISSION option. After checked, the FROM and TO fields become inactive while the items of the week calendar become active – in this way enabling to assign a time period for each weekday separately by the [ADD] button.
To apply these settings click the [OK] button; click [CANCEL] to discard all changes.

Data of an already existing permission can be modified by the [MODIFY] button. Modification can be confirmed by the [OK] button; click [CANCEL] to discard all changes.

Tip: the modifier window can be opened by double-clicking on it in the list instead of the [MODIFY] button.

The selected permission can be deleted from the list by clicking [DELETE] button.

**NOTE!** All the existing permissions will be applied to the newly added camera!
5.3 Reports

The system registers and stores every event. The list of these events can be viewed in the reports menu and can be used for various user purposes (e.g. determining if a car is within the facility).

By clicking [Events] button on the left side of the window the following screen will appear:

![Events Screen]

5.3.1 Events

By clicking the Event tab, the entry/exit events of the last 24 hours can be seen in the appearing list by default. These events can be filtered for cameras checked in the Cameras tab, moreover, if the SHOW DELETED CAMERAS checkbox is checked, events of former, already deleted cameras can be listed.

Steps of filtering:

- select the field you want to filter (by checking the checkboxes)
- enter the characters to filter for and/or set the time interval
- click on the [SEARCH] button the list will be updated and displayed according to the newly entered filtering options
Filtering criteria:

- **Plate**: all characters of the license plate or any part if it can be entered. For example: the user enters the first two characters and the program will display all plate numbers that contain the entered characters.

- **Cameras**: events can be filtered by cameras.

- **Events**: the type of the event can be specified. It can be:
  - unauthorized (vehicles have no permission to drive through)
  - manual drive in (allowing a vehicle in manually)
  - manual drive out (allowing a vehicle out manually)
  - manual open (all events of manual opening)
  - limited (vehicles with limited access)
  - drive through
  - drive in
  - drive out
  - blacklisted drive in (vehicle driving in is on the blacklist)
  - blacklisted drive out (vehicle driving out is on the blacklist)
  - blacklisted (all vehicles on the blacklist)

- Starting and end date: the starting and end date of the event list refers to the events that fall within this interval.

**NOTE! Highlighted (red) vehicles in the list are blacklisted!**

The current list can be saved in .csv format by the [EXPORT] button and it can be inserted into a spreadsheet program for further processing.

*Tip: records can be arranged into ascending/descending order by clicking on the headlines of the columns (Default: ascending order by date).*
The details of the actual event and the corresponding image(s) can be viewed by double-clicking the event.

The image, the data of the selected event and the name of the assigned user are displayed on the screen. The small size images can be enlarged by clicking on them. The NUMBERPLATE and NOTE fields can be modified and saved by the OK button. Data of the previous and the following events can be displayed without closing the window by clicking [<] and [>] or by the Alt+Left and Alt+Right key combinations.
5.3.2 Parking

The following screen will appear after clicking the Parking tab:

The following data of the arrived vehicles can be seen in the list:

- Plate number,
- Arrival,
- Departure,
- Time spent in and the calculated Parking fee.

The Time spent in and the Parking fee can be calculated only if both the Arrival and the Departure has been registered. If there is no data in the Departure column, the vehicle is considered to be within the parking facility.

**NOTE!** If in case of a Drive out event, the recognition of the number plate was incorrect and the vehicle was allowed out manually (without plate correction), then the database may be incorrect!

Steps of filtering:

1. select the field you want to filter (by checking the checkboxes)
2. enter the characters to filter for and/or select status and/or set the time interval (Default: **From** and **To** is selected)
3. clicking on the [SEARCH] button the list will be updated and displayed according to the newly entered filtering options
**Status:** the status of the vehicles can be specified in this field.

- in (vehicle is in the access controlled area)
- out (vehicle is outside the access controlled area)
- undefined (the status of the vehicle cannot be defined)
- lead out (the vehicle is placed outside the parking lot by clicking the [LEAD OUT] button)

The current list can be saved in .csv format by the [EXPORT] button and it can be inserted into a spreadsheet program for later processing.

By the [LEAD OUT] button in the lower right corner, a vehicle – that is within the controlled area according to the list – can be driven out. In this case the date of the departure should be entered. The specified date can be validated by the [SAVE] button. As a result, this will generate a **Drive out** event, imitating a passing vehicle through the checkpoint. This pop-up window can be seen above.
It is possible to add a new vehicle entering its plate number and the arrival date by the [NEW] button in the right lower corner of the screen. The entered data can be validated by clicking the [SAVE] button. This will generate a **Drive in** event, as if a vehicle arrived through an access point.
5.4 Settings

At the **Settings** menu item the system’s operating parameters can be customized.

The following screen will appear by clicking the **Settings** button:

![Settings Screen]

<table>
<thead>
<tr>
<th>NAME</th>
<th>LOGIN</th>
<th>PERMISSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrator</td>
<td>admin</td>
<td>ADMINISTRATOR</td>
</tr>
<tr>
<td>Test User 1</td>
<td>testuser1</td>
<td>USER</td>
</tr>
<tr>
<td>Test User 2</td>
<td>testuser2</td>
<td>USER</td>
</tr>
</tbody>
</table>
5.4.1 Users

On the first tab the list of the Users (operators) can be seen grouped by their name, login and rights.

New user can be added by clicking the [NEW] button.

- Filling the Name, Login and New password fields is necessary; filling any other field is optional.
- Rights of the user can be selected from the drop-down menu. It can be administrator or user (the user has limited access).
- It is important to protect the login with a secure password. After filling password field the Confirm new password field has to be filled as well.

To confirm the changes click [OK]; click [CANCEL] to discard all changes.

Data of an already existing user can be modified by the [MODIFY] button. Modification can be confirmed by the [OK] button; click [CANCEL] to discard all changes.

The selected user can be deleted by the [DELETE] button (to modify or to delete the selection, first click on it).
5.4.2 Blacklist

The blacklist is on the second tab (list of vehicles that are not allowed to enter for some reason), grouped by the plate number, name of the owner, color and type of the vehicle, date and reason of the prohibition.

The blacklisted vehicles are highlighted (red) in the Lanes menu item after the automatic number plate recognition and are not allowed to drive in (these vehicles can be allowed to drive in by manual opening). The blacklist may include license plates that are on the permission list as well. Such license plates are not allowed to enter, because the priority of the blacklist is higher than the permission list's at the evaluation process.

All blacklisted vehicles are listed here by default. The list can be filtered by the checkboxes before the text fields; then clicking on the [SEARCH] button the list will be updated and displayed according to the newly entered filtering criteria.
New blacklisted vehicle can be added by clicking on the [NEW] button.

- Filling the Number plate field is necessary; filling any other field is optional.
- Except the Plate field no other field affects the ban. They can only provide information for the gate-keeper.

Newly added items are confirmed by clicking [OK] button; click [CANCEL] to discard all changes.

Click on the [MODIFY] button to modify data of an already existing blacklisted vehicle. All fields can be modified. Modification can be confirmed by the [OK] button; click [CANCEL] to discard all changes.

The selected vehicle can be deleted by the [DELETE] button (to modify or to delete the selection, first click on it).
5.4.3 Cameras

The list of the cameras, used by the system can be seen on the Cameras tab. They are divided into two roles according to their functions: ANPR and Overview. The system handles the connected ANPR cameras as distinct checkpoints. The Overview cameras can be assigned to any of the ANPR cameras, so an access point can be viewed from multiple angles.

**NOTE:** License plate recognition is done only via ANPR cameras!

The system operator should ensure that the camera

- has obvious name for the gatekeeper
- has correct direction (Incoming/Outgoing)
- has to be set appropriately (available, it operates well, sharp, clear live image, etc.)

By clicking on the [CAMERA SETTINGS] button, the web interface of the ParkIT camera will be opened (in the default browser).

If the goal is an automatic, permission-based entry control, then the Permission check and the Blacklist check have to be checked.

**NOTE!** The number of the added ANPR cameras depends on the type of the purchased license. After reaching the camera limit, defined in the license, only Overview cameras can be added. Maximum two Overview cameras can be assigned to one ANPR camera but one Overview camera may belong to more ANPR cameras.
- Choosing the **Role**, the type of the camera can be selected (ANPR or Overview). This property is determined by adding the camera and can not be changed nor modified later. In case of Overview camera certain parameters can not be defined, so they will not be displayed.
• Filling the **Name** (any unique name) and the **Address** (IP address) fields is necessary; filling any other field is optional.

• **Login** and **password** can be assigned to the camera if required.

• Clicking on the **Camera Type** field a drop-down menu will appear, from which the type of the connected camera (supported by the LetUgo application) can be selected.

• The **Direction** can be selected by the help of the radio buttons, according to the observed checkpoint (**Incoming** or **Outgoing**). If the direction is **Undefined** it will not be possible to define whether the vehicle is within the parking zone or not. This option is available only for ANPR cameras.

• **Port**: port of the computer to which the LetUgo sends the images. It is selected by the LetUgo and can not be altered by users. Ports are sorted out in the following order: 8080, 8081, 8082 and 8083.

• The **Time of opening** refers to the period of time during which the barrier (gate) is in opened position (in milliseconds). This option is available only for ANPR cameras.

• The camera can take into account/ignore the **Permissions** and/or the **Blacklist**. Use the checkboxes near the **Check** option to turn them on. If it is not checked, the system lets all vehicles in regardless to the permission and the recognition. This option is available only for ANPR cameras.

**Function of the Permission Check and Blacklist Check:**

- **Check Permission**: if it is not activated, the system opens the barrier automatically in case of all vehicles. This applies to the Authorized, Unauthorized and Blacklisted vehicles as well. Although the state of the event type can be seen in the Event list at the Event Type column (drive in / drive out / unauthorized / blacklisted).

- **Check Blacklist**: if it is not activated, there is no blacklist check at the current camera. So if, for example a vehicle is registered in the Permission list and the Blacklist as well, the system handles it as an authorized vehicle and it will be listed as an Authorized vehicle both in the main screen and the event list.

**Effect of the settings:**

- **Check Permissions OFF, Check Blacklist ON**: the system lets in and out every vehicle; the blacklisted vehicles are listed in the event list as “blacklisted”.

- **Check Permissions OFF, Check Blacklist OFF**: the system lets in and out every vehicle, but as the Check Blacklist function is turned OFF, the blacklisted vehicles are not listed in the event list as “blacklisted” (they is listed as an “Authorized” / “Unauthorized”).

- **Check Permissions ON, Check Blacklist OFF**: the barrier will open automatically only in case of Authorized vehicles. Check Blacklist function is turned OFF, so the blacklisted vehicles are not listed in the event list as “blacklisted” (they is listed as an “Authorized” / “Unauthorized”).

- **Check Permissions ON, Check Blacklist ON**: the barrier will open automatically only in case of Authorized vehicles; the blacklisted vehicles are listed in the event list as “blacklisted”.

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• The list of the Overview cameras can be reached in case of adding an ANPR camera. All Overview cameras of the system are listed here. The necessary Overview cameras (maximum two cameras) can be assigned to the appropriate access point by marking them.

Confirmation can be done by the [OK] button; click [CANCEL] to discard all changes.

Data of an existing camera can be modified by the [MODIFY] button. Modification can be confirmed by the [OK] button; click [CANCEL] to discard all changes.

The selected camera can be deleted by the [DELETE] button (to modify or to delete the selection, first click on it).
5.4.4 System

Parameters of the system can be seen on the fourth tab.

- **Path of sound files**: path of the alarm signal sounding on entry attempts of vehicles.
- **Image path**: path of the camera images on the hard disk. It is possible to browse a previously set path with the help of the button after the field or by entering the path that will be created by the program on the hard disk at the first image capturing.
- **GUI language**: the language of the application interface can be set by the drop-down menu.
- **Delete older than…days**: the system can be set to delete events older than a specified number of days. Set 0 to not clear at all.

**NOTE!** This field is set to 180 by default. If it is important to keep all previous events, before using the LetUgo software change this value!

**Anti-passback (APB)**: If it is checked, the application monitors the anti-passback violations. Anti-passback: in case the vehicle is already inside the parking lot according to the system and it tries to enter again, or if the vehicle is not inside the parking lot and tries to leave again.

**Total parking spaces**: the number of the parking spaces of the parking lot. If the set value is greater than zero, then the number of the total parking spaces and the number of free parking spaces will be indicated on the top of the screen.

**Manual open only, if the parking lot is full**: If it is turned on and the parking lot is full, the application does not open the barrier automatically, it waits for manual open command.

Modification can be confirmed by the [SAVE] button. Factory settings can be reset by the [RESTORE] button.
5.4.5 License key

The license key can be entered on the **License key** tab. It can be stored by the **STORE** button.

Data on the screen is related to the validity of the license (e.g.: expiration date).
5.4.6 System log

Log entries of the events and user operations are logged by the application and can be viewed by clicking the **System log** tab. The list of the log entries can be filtered according to the entry type by the checkboxes above the list.
5.4.7 Parking Fee

Settings related to parking can be specified on the Parking tab.

In case of unauthorized vehicles the parking data provides supporting information at the moment of the leaving to the desk clerk for parking fee calculation purposes.

In the Length of Parking Period (MIN) field the length of the parking period can be determined in minutes.

Length of the 1st Parking Cycle (MIN): the length of the 1st parking cycle can be determined in minutes.

Cost of the 1st Parking Cycle (per period): the cost of each period of the first cycle can be determined in this field.

Cost of the 2nd Parking Cycle (per period): the cost of the remaining periods can be determined in this field (fee concerning each period after the first cycle).

After every started parking period the cost of the proper period is added to the final parking fee.

The currency of the parking fee can be set in the Currency field (text data).

For example: The Length of a Parking Period (MIN) is 60 minutes, its fee for the 1st period is 2 EUR / period (in this case 60 minutes). The fee of the 2nd period is 1 EUR / period. On the basis of these data, if the vehicle is inside the parking lot for 4 hours:

- Cost of the 1st Parking Cycle (per period): 1 hour x 2 EUR / hour = 2 EUR
- Cost of the 2nd Parking Cycle (per period): 3 hour x 1 EUR / hour = 3 EUR
- Total fee: 2 EUR + 3 EUR = 5 EUR
5.5 Exit

By clicking on the [EXIT] button on the left side, the following window appears for logging off or quitting the program.

**NOTE!** While a user is logged off (by clicking LOG OFF or pressing F10), LetUgo is still running in the background. The user can return to LetUgo by Logging in again.