

New Features and Enhancements of GV-LPR V3.1.2.1

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1. Setting Weekly Schedules for Registered Vehicles

The Schedule feature allows you to create weekly schedules for the registered vehicle to access a site, such as a car park or an entrance.

To enable the gate to be triggered to open when a registered plate is recognized:

1. On the main screen, click the **Configure** button  and select **System Configuration**.
2. Click the **I/O Device** tab, enable the desired Output and select **Registered** in the **Output Setup** section.

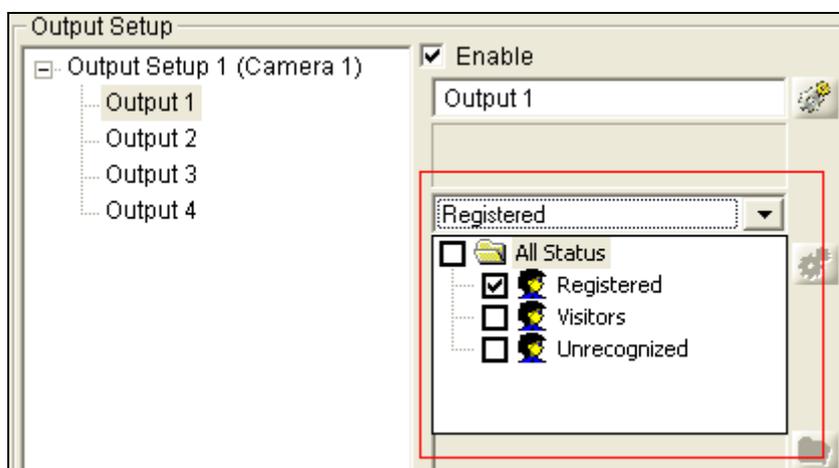


Figure 1-1

The weekly schedule is set with the defined daily and holiday access time. If the registered vehicle tries to access during the unscheduled time, the gate would not be triggered to open, and the access attempt will fail. Considering the variety of access hours for vehicles, you can apply different schedule with different access time on each registered vehicle, if necessary.

1.1 Setting the Time Zone

1. On the main screen, click the **Schedule** button , and select **Schedule Setting**. This dialog box appears.

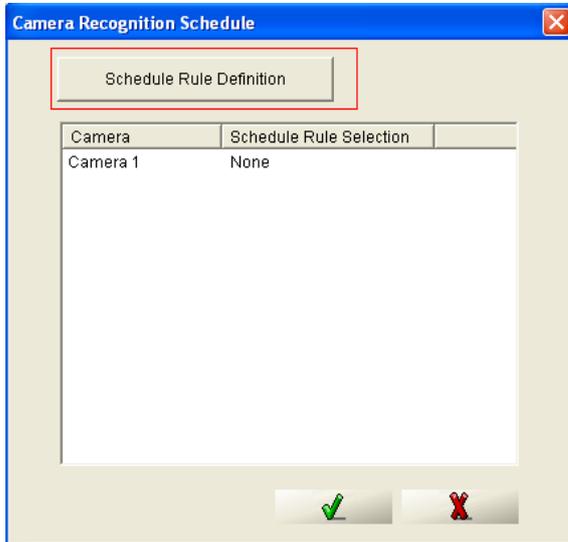


Figure 1-2

2. Click the **Schedule Rule Definition** button. This setup box appears.

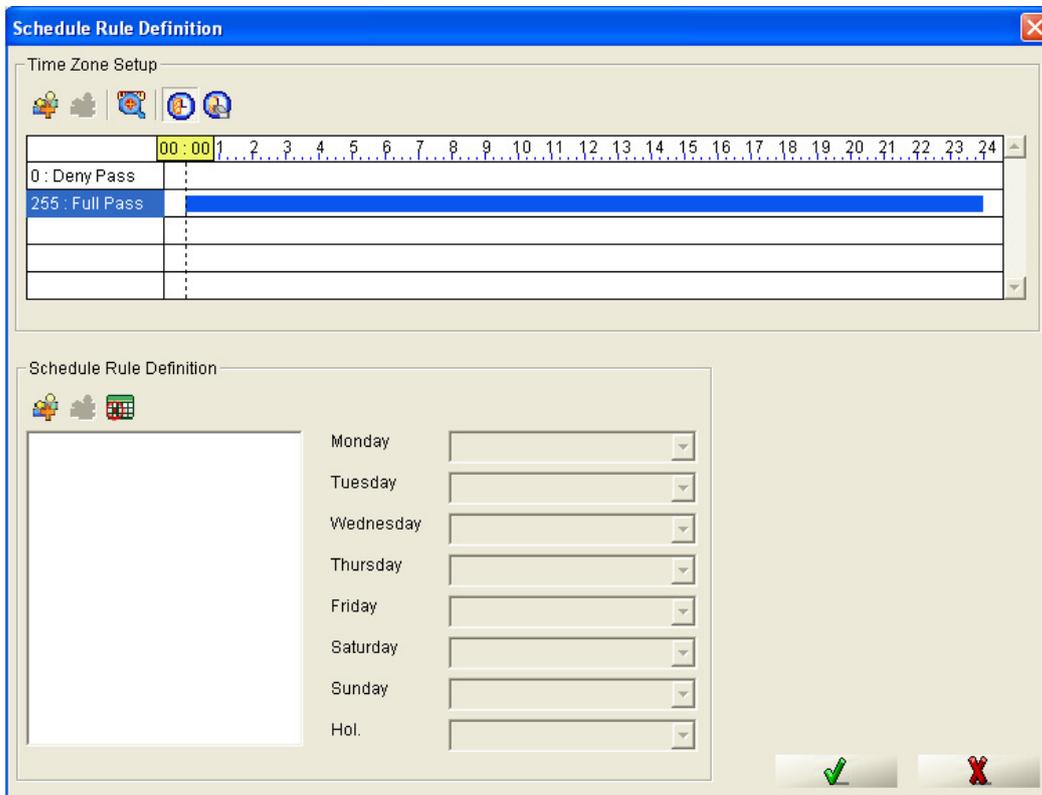


Figure 1-3

- In the **Time Zone Setup** section, you can define the minutes and hours of the day when the registered vehicle is granted access. There are two default time zones “Deny Pass”

and “Full Pass”. Click the **Add** button  to create a new time zone. This dialog box appears.

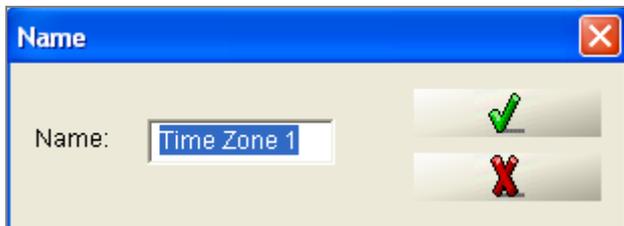


Figure 1-4

- Give a name to the time zone you are going to define, and click the  button. For example, name Time Zone 1 as **Day Pass**.
- Drag the mouse on the timeline to define a period of access time. For example, set the time from **06:00** to **18:00**.

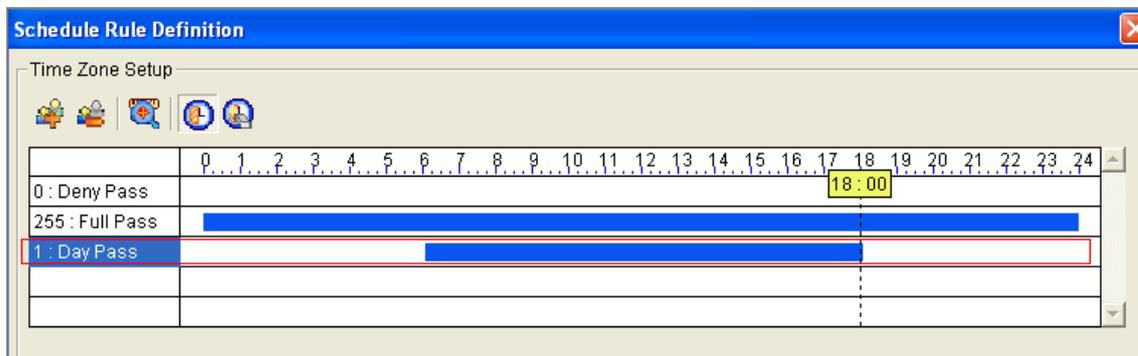


Figure 1-5

- To delete the time zone, click the **Delete** button ; to enlarge the timeline, click the **Scale Big** button .
- To modify the defined time zone, click the **Add Access Time** button  or the **Delete Access Time** button , and drag the mouse on the timeline.
- To create a second time zone, repeat the step 3 to step 5.

1.2 Setting the Schedule Rule

1. Click the **Add** button  in the **Schedule Rule Definition** section.

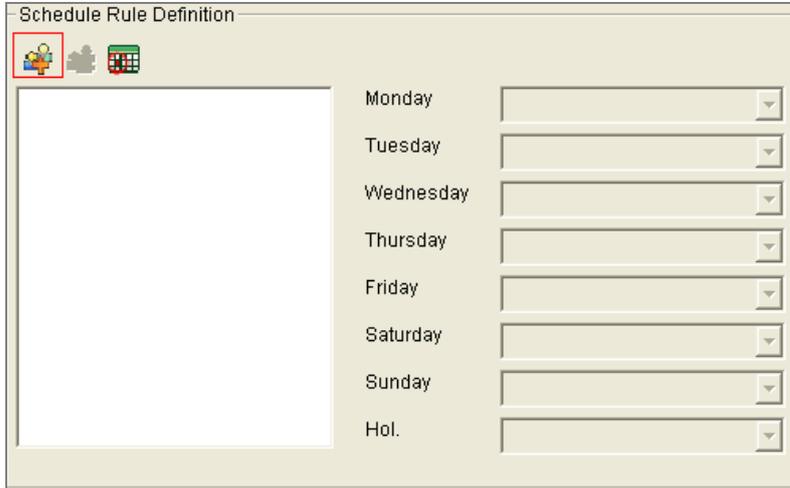


Figure 1-6

2. This dialog box appears. Give a name to the weekly schedule you are going to define, and click the  button. For example, name the weekly schedule as **Day Rule**.



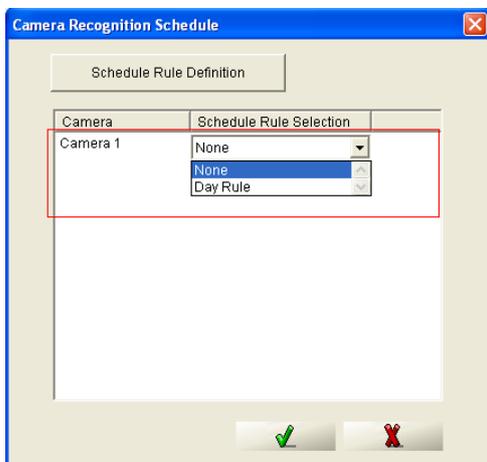
Figure 1-7

- From the drop-down lists of **Monday** to **Holiday**, select the time zone. For example, you can select **Day Pass** for Monday to Friday, and select **Deny Pass** (the default time zone) for Saturday, Sunday and Holiday. After the settings, the vehicle set with **Day Rule** schedule will only be granted access on week days (not including holidays) during the defined time (**from 06:00 to 18:00**). For details on holidays, see *1.2.1 Setting Holidays*.

Monday	Day Pass
Tuesday	Day Pass
Wednesday	Day Pass
Thursday	Day Pass
Friday	Day Pass
Saturday	Deny Pass
Sunday	Deny Pass
Hol.	Deny Pass

Figure 1-8

- To delete the schedule rule, click the **Delete** button .
- To create a second schedule rule, repeat the step 1 to 3.
- When you finish creating the schedule rules, click the  button.
- Select the schedule rule from the drop-down list for the desired camera and click the  button.
 - None:** Select this option, and no schedule rule is applied on the camera when it performs license plate recognition.
 - Schedule Rule:** Select the desired schedule rule, and the camera would perform license plate recognition according to the schedule rule.



Camera	Schedule Rule Selection
Camera 1	None

Figure 1-9

For example, if you select **None** for Camera 1, Camera 1 would perform license plate recognition all day until you stop recognition. If you select **Day Rule**, Camera 1 would start license plate recognition according to the schedule you just created.

Note: There are two applications for the schedule rule:

1. The camera is set with no schedule rule, while the vehicle is set with a schedule rule. For details, see *1.3 Applying the Schedule Rule to the Registered Vehicle*.
2. Both the camera and the vehicle are set with schedule rules. However, the scheduled time and day for the camera should be longer than those for the vehicle. For example, if the access time for the camera is from 8:00 to 20:00, Monday to Saturday, the access time for the vehicle should be within the period.

1.2.1 Setting Holidays

1. To designate the specific dates as holidays, click the **Holiday** button . This calendar appears.

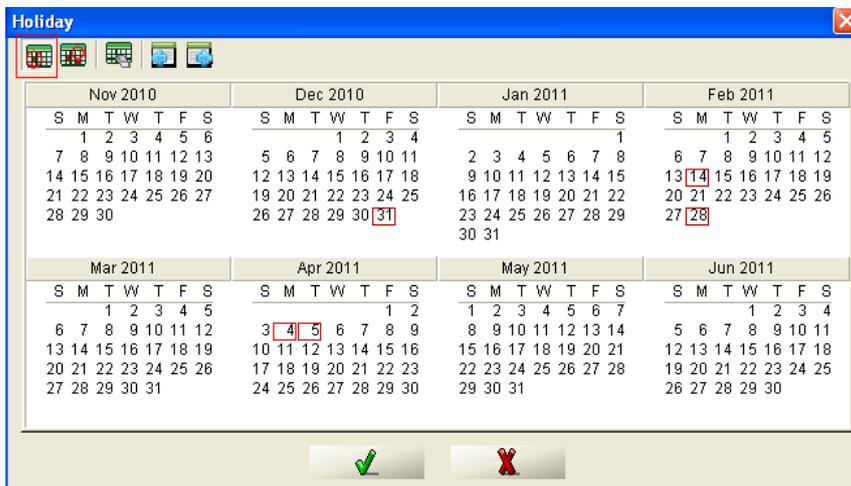


Figure 1-10

2. Click the **Holiday** button , and then click the specific dates as holidays.
3. To delete the holiday, click the **Non Holiday** button  and then click the date you want to delete.
4. After the settings, click the  button.

1.3 Applying the Schedule Rule to the Registered Vehicle

1. On the main screen, click the  button, and select **Registered Plates Database**. The **Query** dialog box appears.
2. Specify the query conditions and click the  button. The **Registered Plates Database** window appears.

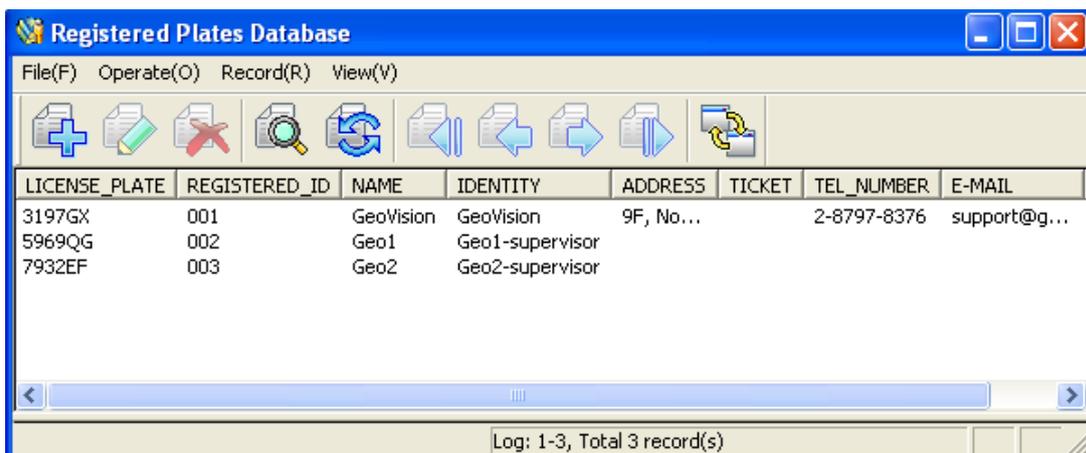
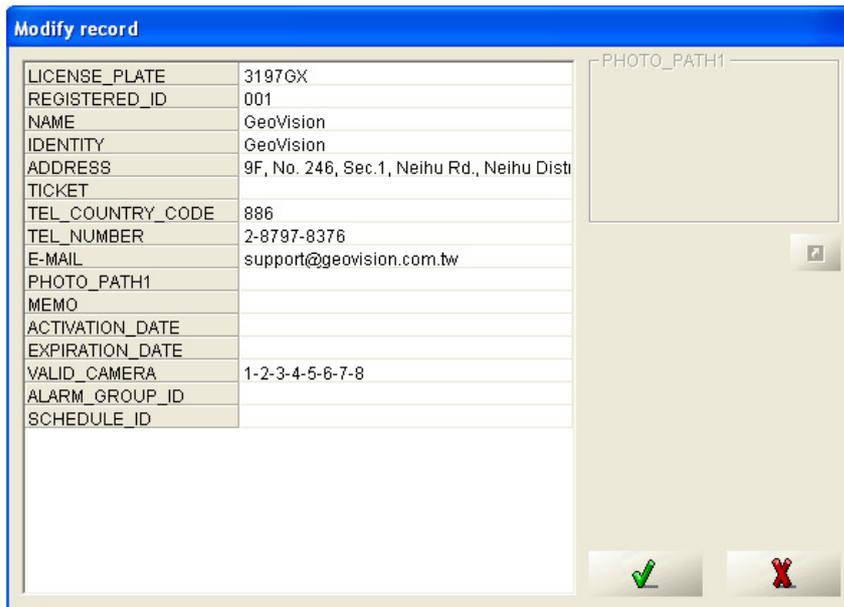


Figure 1-11

3. Select the license plate to be configured and click the **Modify Record** button . The plate record appears.



LICENSE_PLATE	3197GX
REGISTERED_ID	001
NAME	GeoVision
IDENTITY	GeoVision
ADDRESS	9F, No. 246, Sec.1, Neihu Rd., Neihu Distr
TICKET	
TEL_COUNTRY_CODE	886
TEL_NUMBER	2-8797-8376
E-MAIL	support@geovision.com.tw
PHOTO_PATH1	
MEMO	
ACTIVATION_DATE	
EXPIRATION_DATE	
VALID_CAMERA	1-2-3-4-5-6-7-8
ALARM_GROUP_ID	
SCHEDULE_ID	

Figure 1-12

4. Select **Rule 1-Day Rule** from the **Schedule_ID** drop-down list. Click the  button.

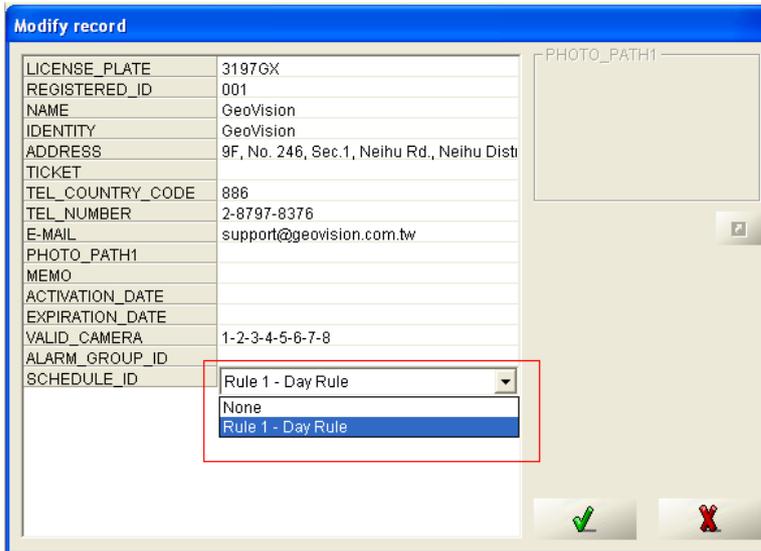


Figure 1-13

5. On the main screen, click the **Schedule** button , and select **Schedule Start**.

After the settings, the vehicle will be granted access to the site when being recognized during the scheduled time. It will also show “**Registered**” in the live view window of the GV-LPR. If the registered vehicle tries to access the site during the unscheduled time, it would show “**Out of Schedule**” in the live view window.



CA...	RECOGITO...	Plate Photo	EVENT_TIME	DIRE...	STAY_TIME	AVERAGE_SPE...	VEHL...	LICENSE_P...	REGIS...	NAM
1	3197GX		11/11/2010 1:00:51 PM	Incomi...						
1	CSY365		11/11/2010 1:00:49 PM	Incomi...						
1	5969QG		11/11/2010 1:00:46 PM	Incomi...						

Figure 1-14

2. Setting the System Log

System Log provides historical information that can help you track down system events, such as Start Up, Shut Down, Log In, Log Out, Start Recognition, Stop Recognition, and etc. This information is being saved in a database, which you can select to be recycled after certain days.

To set the System Log:

1. On the main screen, click the **Configure** button , and select **Log Setting**. This dialog box appears.

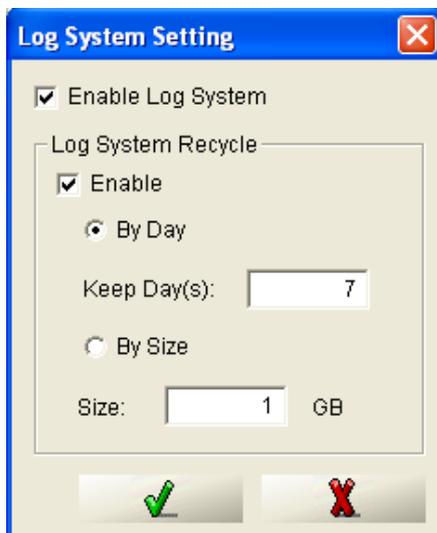


Figure 2-1

2. Select **Enable Log System**.
3. In the Log System Recycle section, select **Enable** and then select to recycle the files **By Day** or **By Size**.
 - **By Day:** Select this option and set the number of days to keep logs.
 - **By Size:** Select this option and set the size of the storage space. When the storage space is below the size, the system will delete the old log files.
4. Click the  button.

To open the Log System Browser:



1. On the main screen, click the  button, and select **Log System**. This dialog box appears.

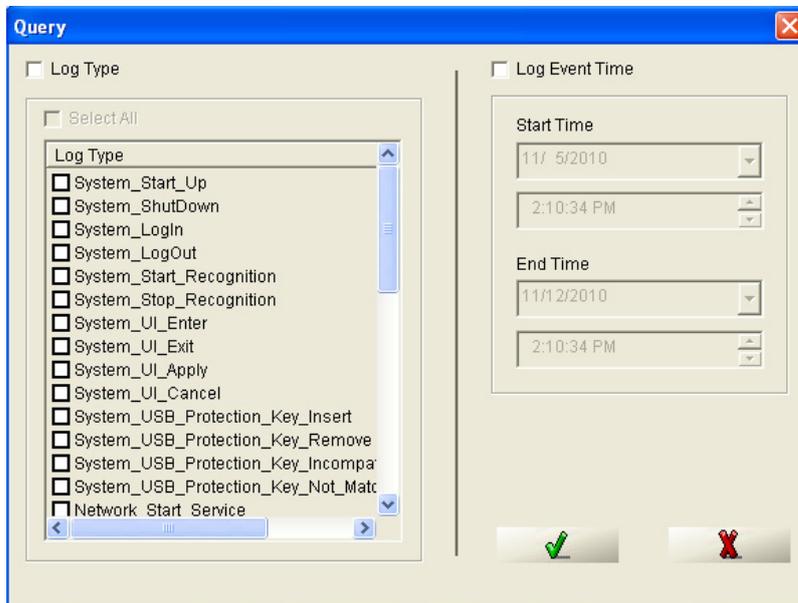


Figure 2-2

2. Select **Log Type**, and the Log Type options become available.
3. Select the desired Log Type.

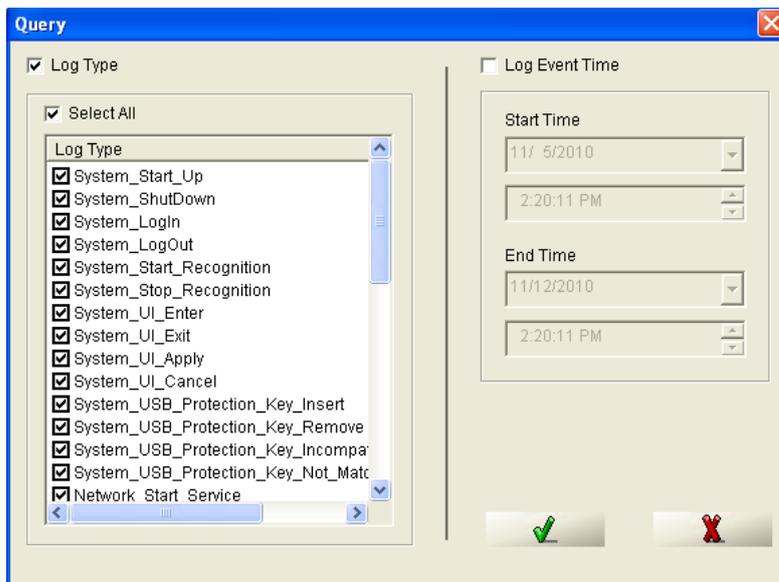


Figure 2-3

- To view the logs for a specific period, select **Log Event Time** and set the start date and time and the end date and time from the drop-down lists. Click the  button.

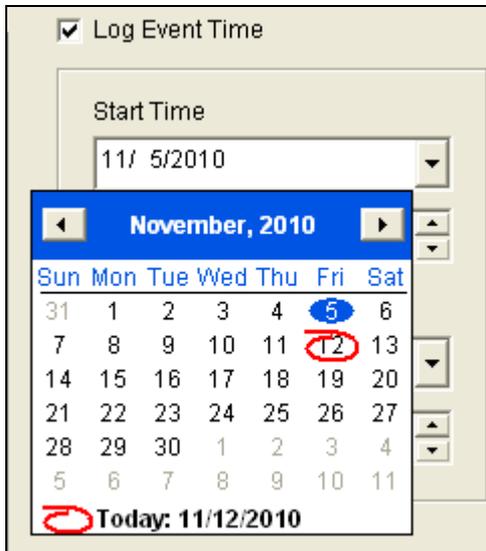
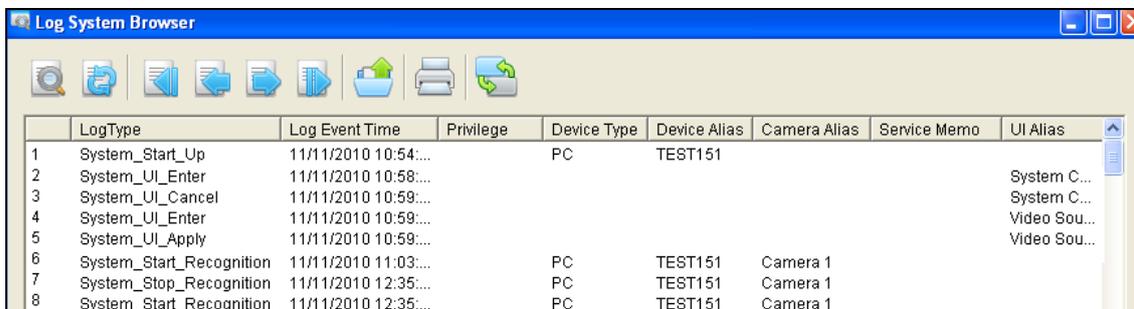


Figure 2-4

- The **Log System Browser** appears, showing the logs of selected types during the time you just specified.



	LogType	Log Event Time	Privilege	Device Type	Device Alias	Camera Alias	Service Memo	UI Alias
1	System_Start_Up	11/11/2010 10:54:...		PC	TEST151			
2	System_UI_Enter	11/11/2010 10:58:...						System C...
3	System_UI_Cancel	11/11/2010 10:59:...						System C...
4	System_UI_Enter	11/11/2010 10:59:...						Video Sou...
5	System_UI_Apply	11/11/2010 10:59:...						Video Sou...
6	System_Start_Recognition	11/11/2010 11:03:...		PC	TEST151	Camera 1		
7	System_Stop_Recognition	11/11/2010 12:35:...		PC	TEST151	Camera 1		
8	System_Start_Recognition	11/11/2010 12:35:...		PC	TEST151	Camera 1		

Figure 2-5

3. Modifying the Plate Number in the Recognition

Database Window

The Recognition Database allows you to view and query the recognition records. Records being queried will be shown with detailed items, including the plate number, the driving direction and the vehicle identity. GV-LPR V3.1.2.1 supports manual modification of the plate number in the database, if the recognition result is incorrect.

To modify the plate number, follow the steps below:

1. On the main screen, click the button , and select **Recognition Database**. This dialog box appears, allowing you to query the recognition records. Specify the query conditions, and click the  button.

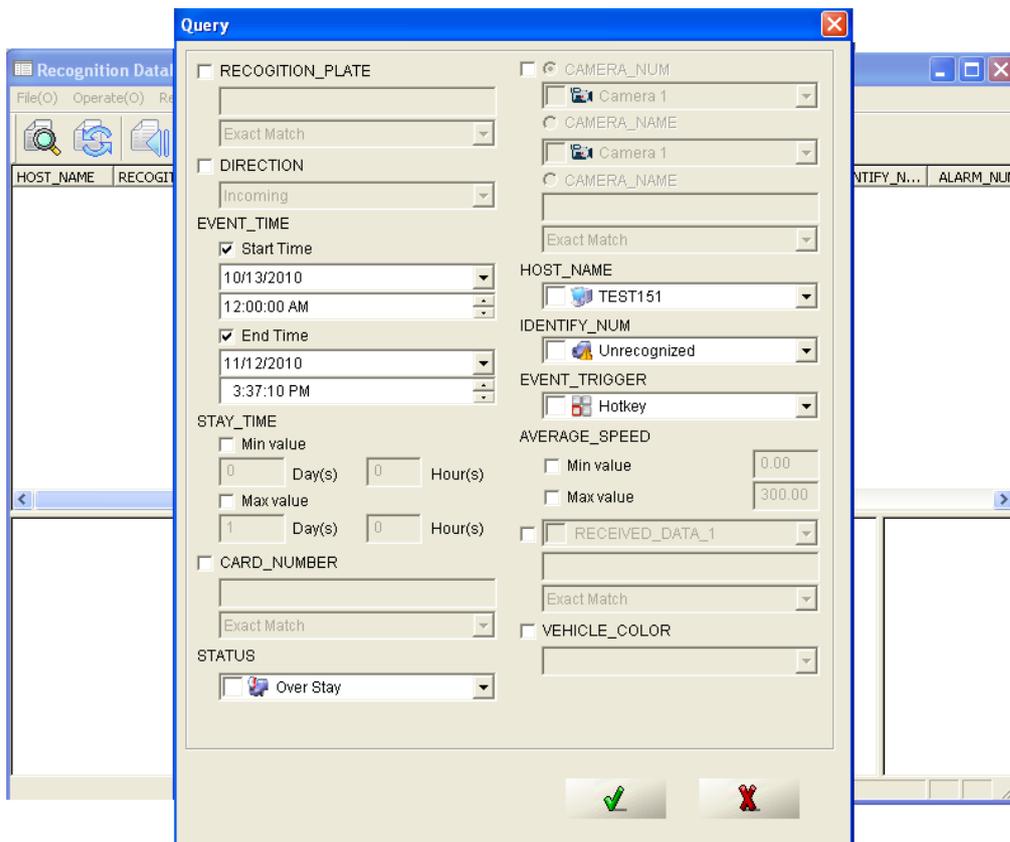


Figure 3-1

2. Double-click the **Recognition Plate** that you want to modify, and the field is available for modification.

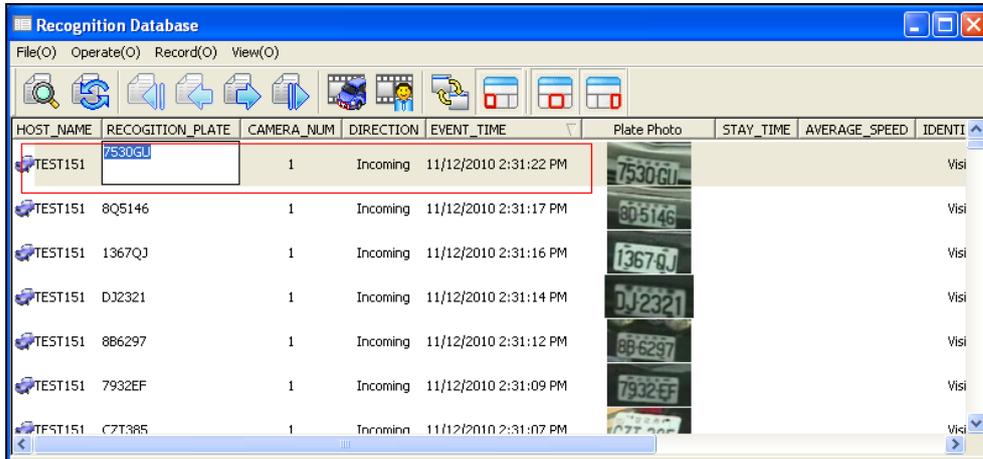


Figure 3-2

3. Press **Enter** when the plate number is modified.

4. Export Setting

In GV-LPR V3.1.2.1, the user interface of the Export Setting has been enhanced and more options are added.

Export Setting enables you to export the recognition results for system integration. You may select **Export through RS232** or **Export to File** to export the recognition results. To configure

the Export Setting, click the **Configure** button  on the main screen, and select **Export Setting**.

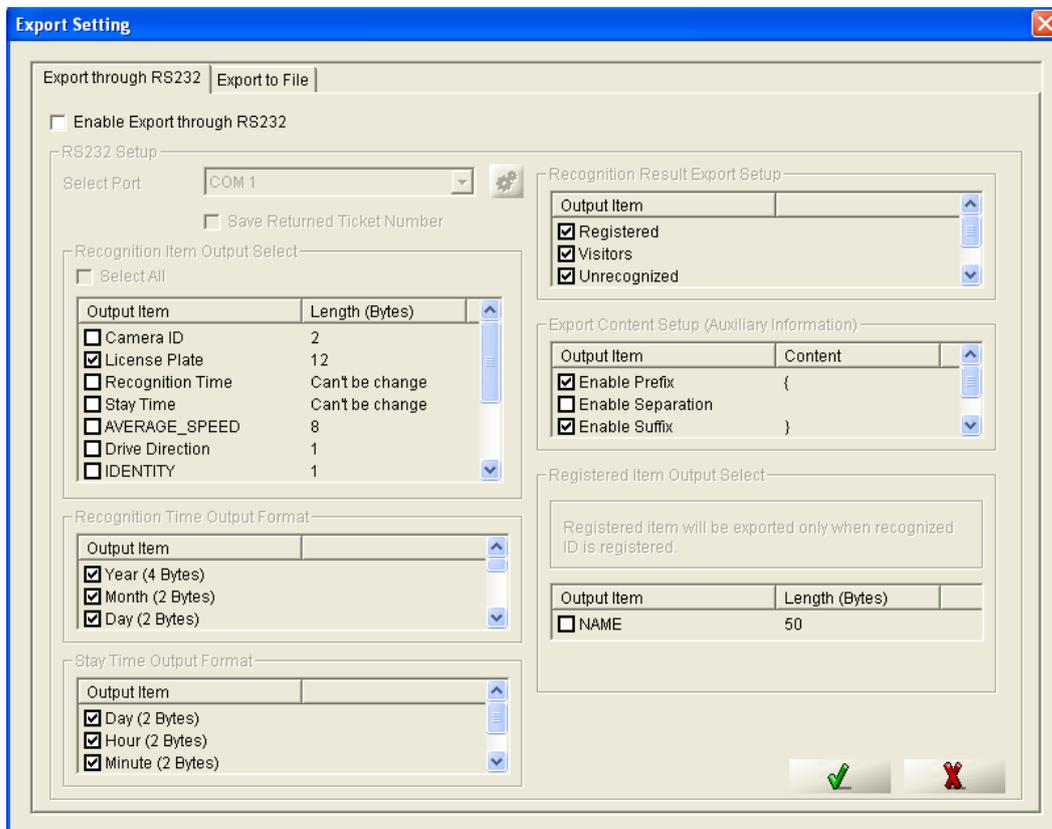


Figure 4-1

[Export through RS232]

Through RS-232, the recognition results are transmitted and then displayed at the receiver's site. To configure the settings for exporting through RS-232, follow the steps below:

Note: It is required to use a RS-232 cross-over cable to connect GV-LPR and the device, which the exported data are transmitted to.

1. Click the **Export through RS232** tab, and select **Enable Export through RS232** to make other options available.
2. Select the COM port from the drop-down list, and click the  button to set the communication properties of the COM port.

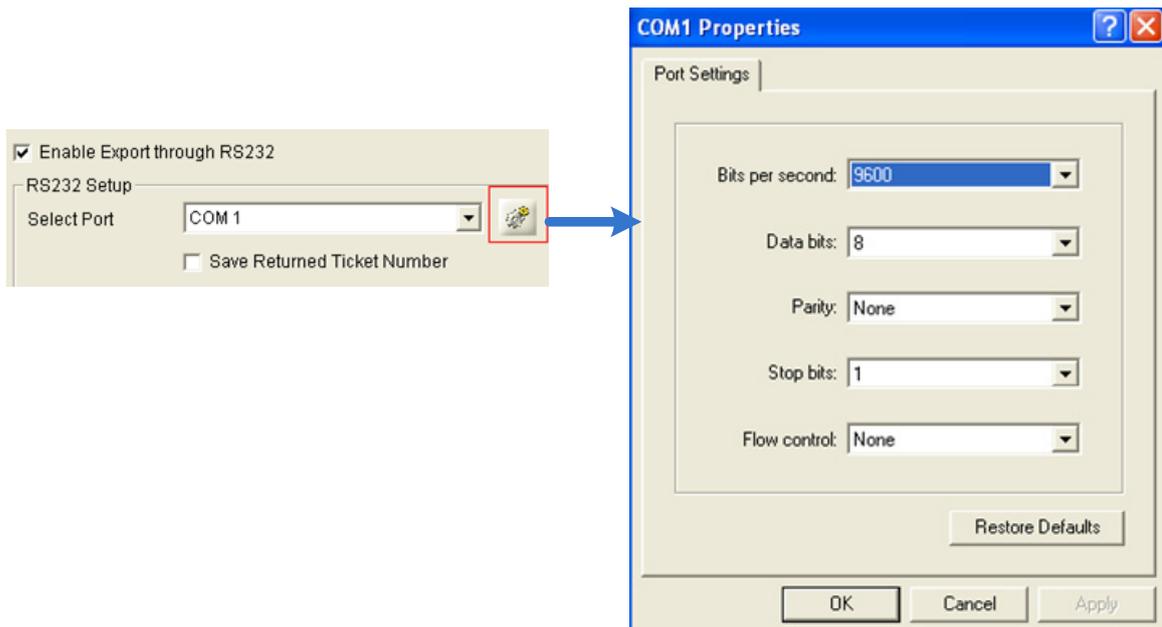


Figure 4-2

3. The **Save Returned Ticket Number** option allows the GV-LPR System to be integrated with Ticketing System. Select this option, and the Ticketing System should send the data, including the Ticket Number and Card ID, back to GV-LPR. The received data can be used to search for the recognition record.
4. In the **Recognition Item Output Select** section, select the recognition item(s) to be exported.

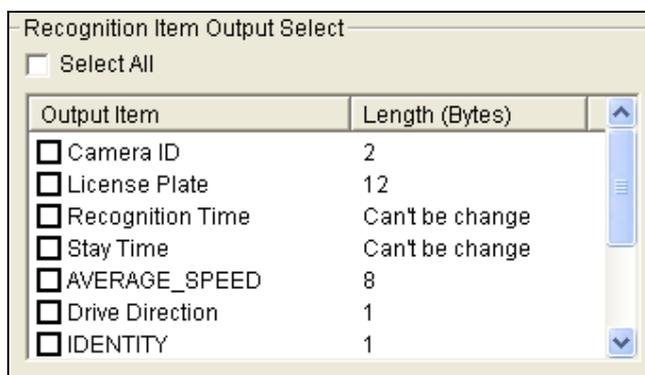


Figure 4-3

- To modify the length of the output item, click the **Length** field of the item to make it available for modification.

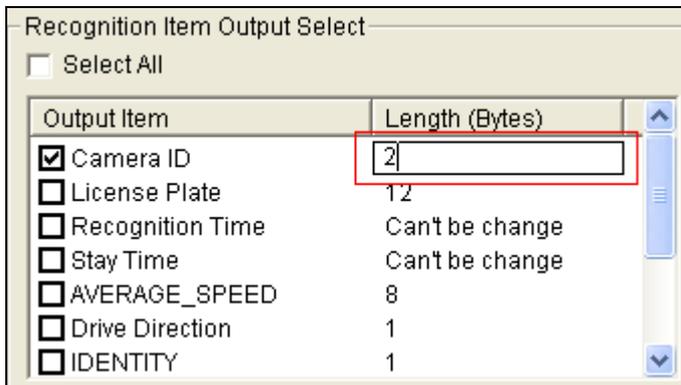


Figure 4-4

- If you select **Recognition Time** at step 4, the **Recognition Time Output Format** options will become available. You can select to include **Year**, **Month**, **Day**, **Hour**, **Minute**, **Second**, or **Millisecond** in the exported data.

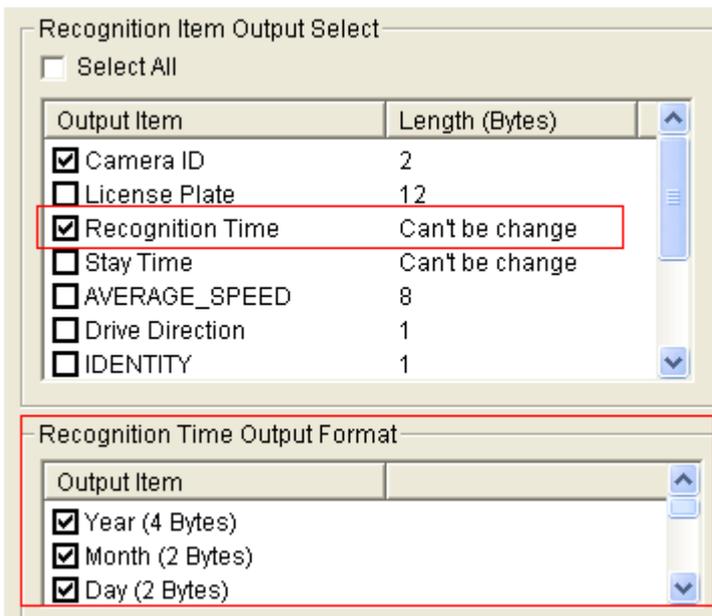


Figure 4-4

- If you select **Stay Time** at step 4, the options the **Stay Time Output Format** options will become available. You can select to include **Day**, **Hour** or **Minute** in the exported data.

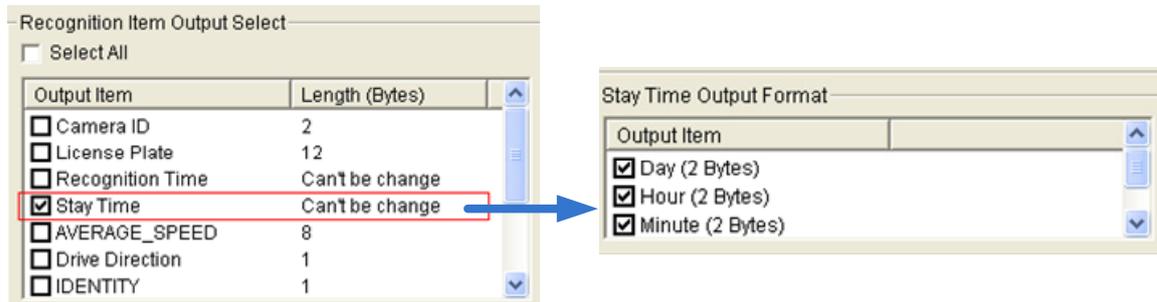


Figure 4-5

- In the **Recognition Result Export Setup** section, select the types of the recognition results to be exported.



Figure 4-6

- In the **Export Content Setup (Auxiliary Information)** section, select to enable **Prefix** ({} and **Suffix** (}) for each exported data or select **Separation** (space) to separate each exported data.
- In the **Registered Item Output Select** section, select if you want the name of the vehicle owner to be exported when the recognized plate is registered.

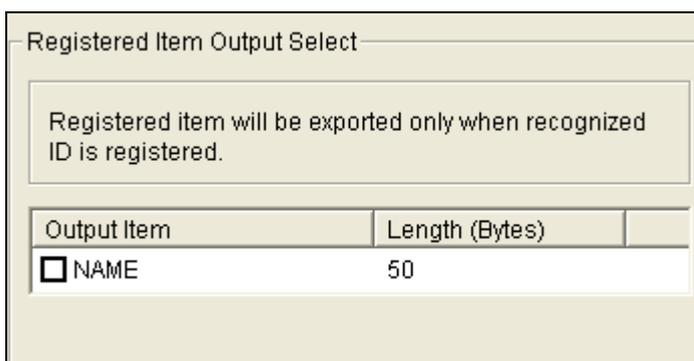


Figure 4-7

[Export to File]

You can also export your recognition results to files. The exported file format options include .TXT, .CSV, .HTML, .XML, .MDB, and EXCEL. To configure the settings for exporting to files, follow the steps below:

1. Click the **Export to File** tab, and select **Enable File Export** to make other options available.

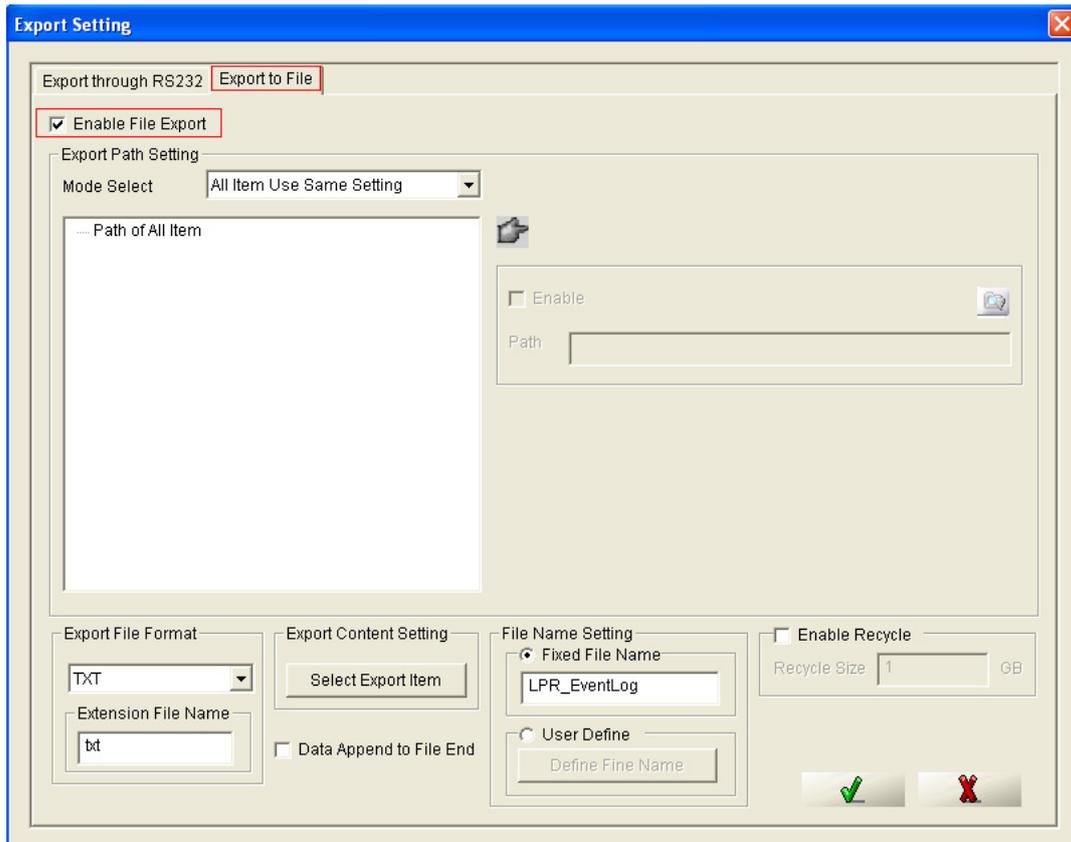


Figure 4-8

2. In the **Export Path Setting** section, specify the export path. You can sort the export files by the desired classification, and set different export path for each group under the same classification, if necessary.

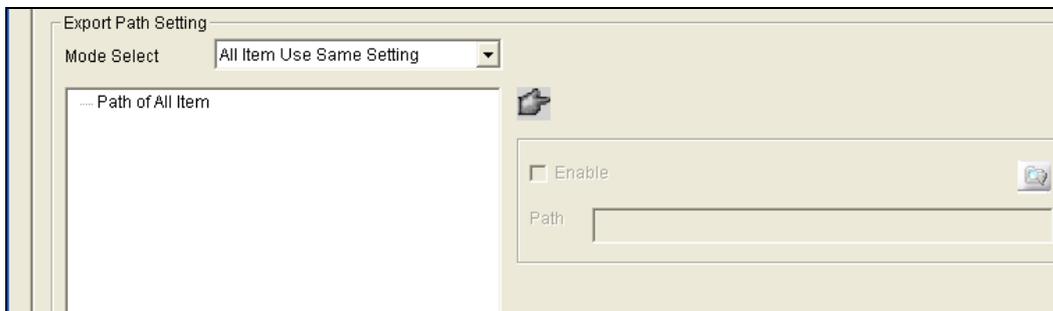


Figure 4-9

- A. Select the desired classification from the **Mode Select** drop-down list. The corresponding groups appear in the field below. For example, if you select **By Identity**, you will find the groups, including **Extension Group**, **Registered**, **Visitors**, **Unrecognized**, **Registered_Overstay** and **Visitors_Overstay**.

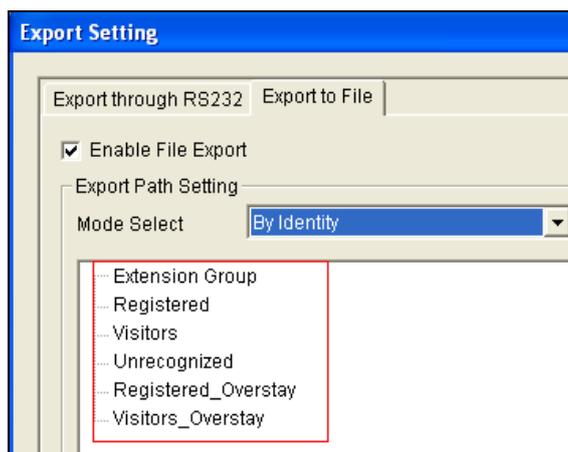


Figure 4-10

Note: The Extension Group refers to the user-defined group you set up in the **Alarm Definition Setting** section. For details, see [3.2.7 Alarm Definition Setting, GV-LPR V3.0 User's Manual](#).

- B. Click any group, and select **Enable** in the right pane. Click the  button to specify the export path.

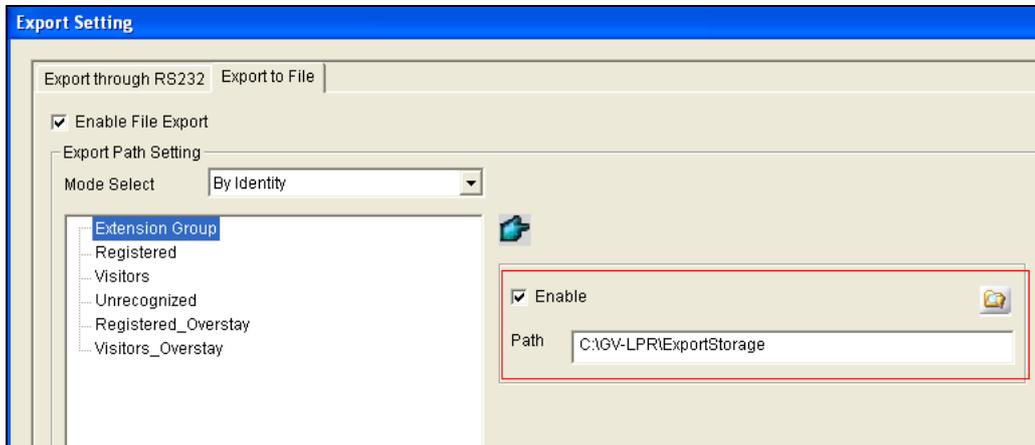


Figure 4-11

- C. Repeat step B to set the export path for the rest groups.
3. In the **Export File Format** section, select the format from the drop-down list. The options include **.TXT**, **.CSV**, **.HTML**, **.XML**, **.MDB**, and **EXCEL**. If you select **TXT**, the **Extension File Name** field is available for modification.

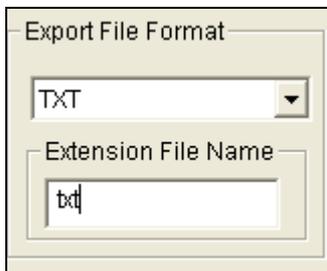


Figure 4-12

4. Click the **Select Export Item** button, and this dialog box appears, allowing you to select the recognition item(s) to be exported.

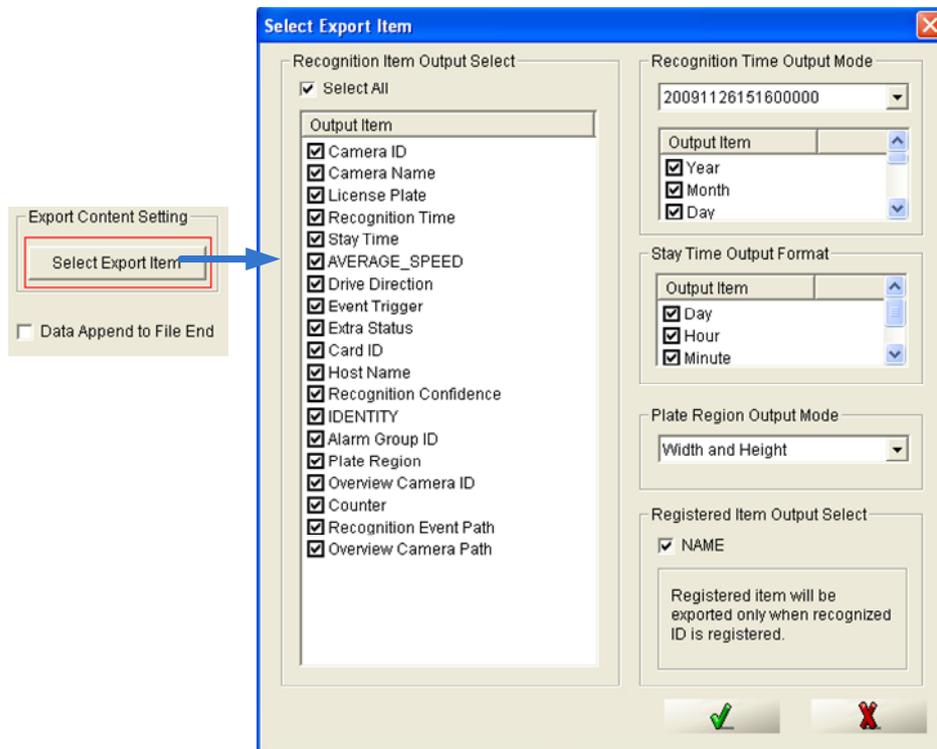


Figure 4-13

5. Select the recognition item(s) to be exported.
6. If you select **Recognition Time** at step 5, the **Recognition Time Output Mode** options will become available.
 - A. Select the output mode from the drop-down list.
 - B. If you select to export the **Recognition Time** in the sequence number (e.g., 200911261524), you can select to include **Year**, **Month**, **Day**, **Hour**, **Minute**, **Second**, or **Millisecond** in the exported data.

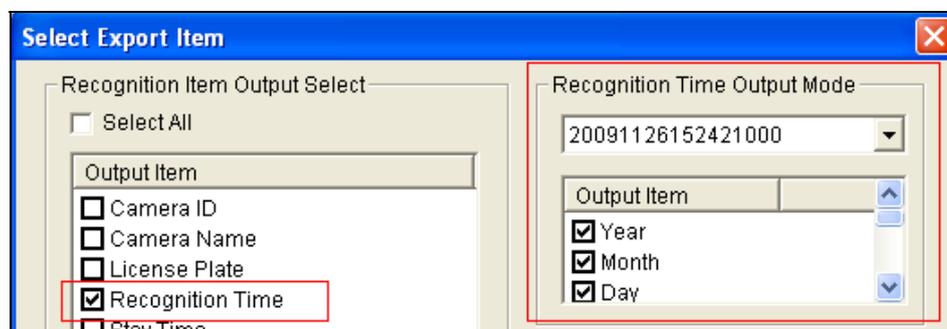


Figure 4-14

7. If you select **Stay Time** at step 5, the **Stay Time Output Format** options will become available. You can select to include **Day**, **Hour** or **Minute** in the exported data.

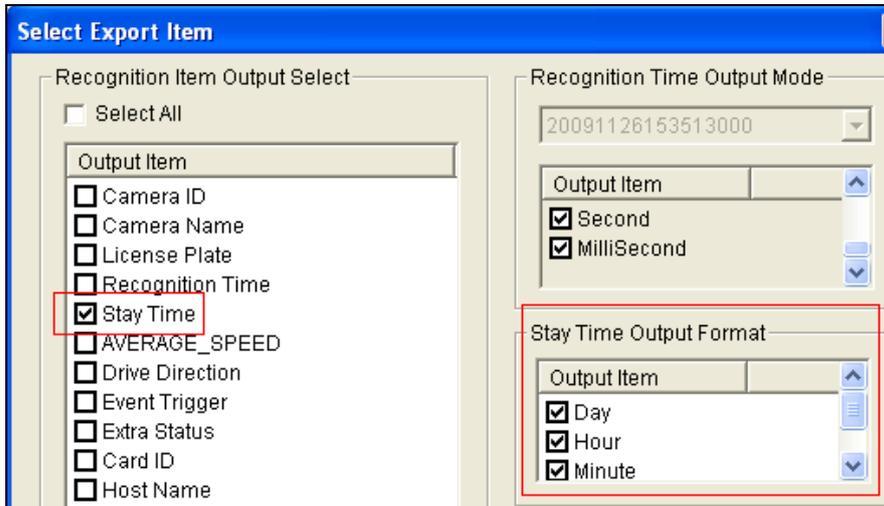


Figure 4-15

8. If you select **Plate Region** at step 5, the **Plate Region Output mode** options will become available. Select the output mode to be **Width and Height** or **Left Top Right and Bottom**.

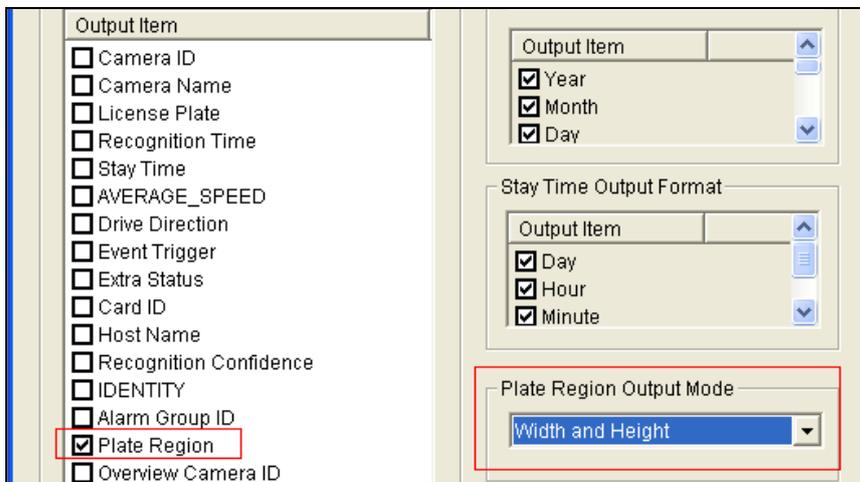


Figure 4-16

- **Width and Height:** Select this option to display 2 pixel values of the width and height of the plate.
- **Left Top Right and Bottom:** Select this option to display 4 pixel values of the four sides of the plate.

9. In the **Registered Item Output Select** section, select if you want the name of the vehicle owner to be exported when the recognized plate is registered.



Figure 4-17

10. When you finish selecting the exported items, click the  button to apply the settings.

11. Select **Data Append to File End** to include all recognition results. Otherwise, the exported file will only display the latest records of the recognition results by overwriting the same items.



Figure 4-18

12. In the **File Name Setting** section, select the way to name the exported files.

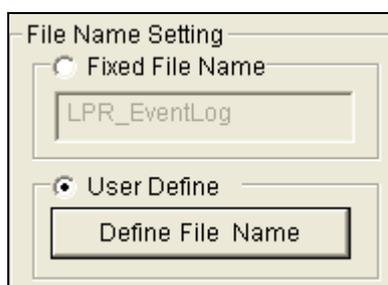


Figure 4-19

- **Fixed File Name:** Select this option to give a fixed file name **LPR_EventLog**.

- **User Define:** Select this option to make the **Define File Name** button available. Click the button and this dialog appears.

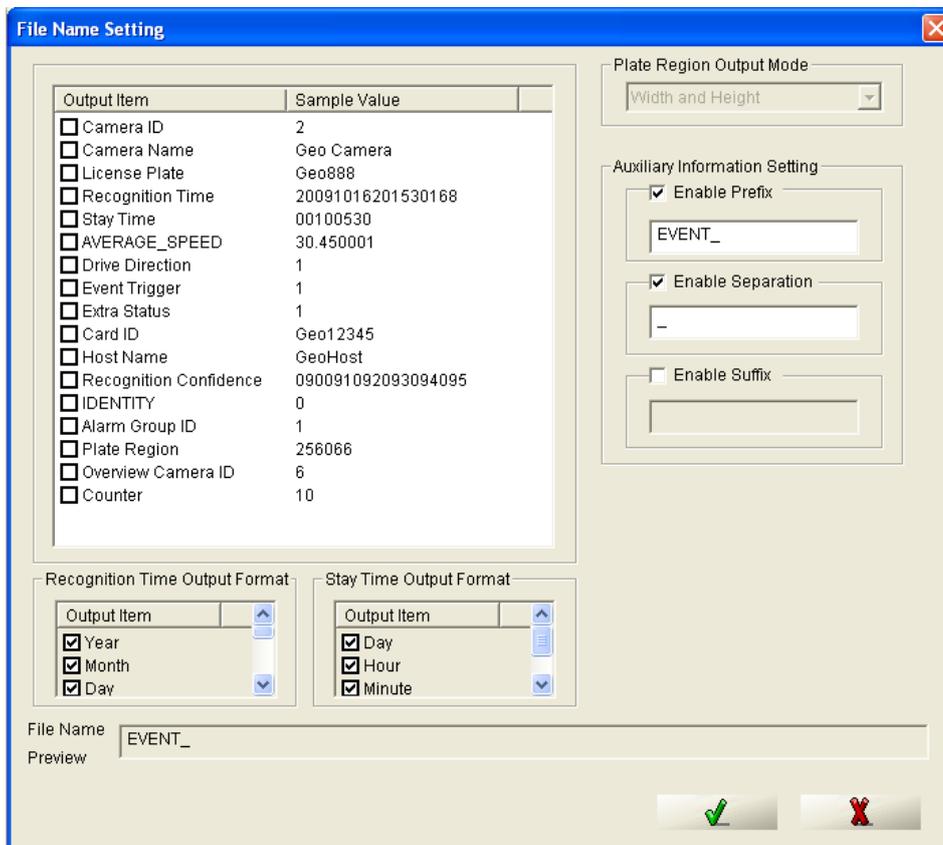


Figure 4-20

- Select the Output Item(s) to be included in the file name.
- If you select **Recognition Time** at step A, the **Recognition Time Output Format** options will become available. You can select to include **Year, Month, Day, Hour, Minute, Second, or Millisecond** in the file name.
- If you select **Stay Time** at step A, the **Stay Time Output Format** options will become available. You can select to include **Day, Hour or Minute** in the file name.
- If you select **Plate Region** at step A, the **Plate Region Output Mode** options will become available. You can select **Width and Height** to display 2 pixel values of the width and height of the plate, or select **Left Top Right and Bottom** to display 4 pixel values of the four sides of the plate.

E. In the **Auxiliary Information Setting** section, you can enable and self-define the **Prefix**, **Separation** and **Suffix** for the file name.

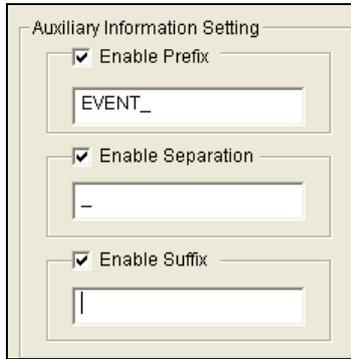


Figure 4-21

After the settings, you can have a preview of the file name in the **File Name Preview** field below. For example, if you select Camera ID, Camera Name and License Plate to be shown in the file name, and select to enable Prefix (Event_), Separation (_) and the Suffix (#), the file name will be as shown below.

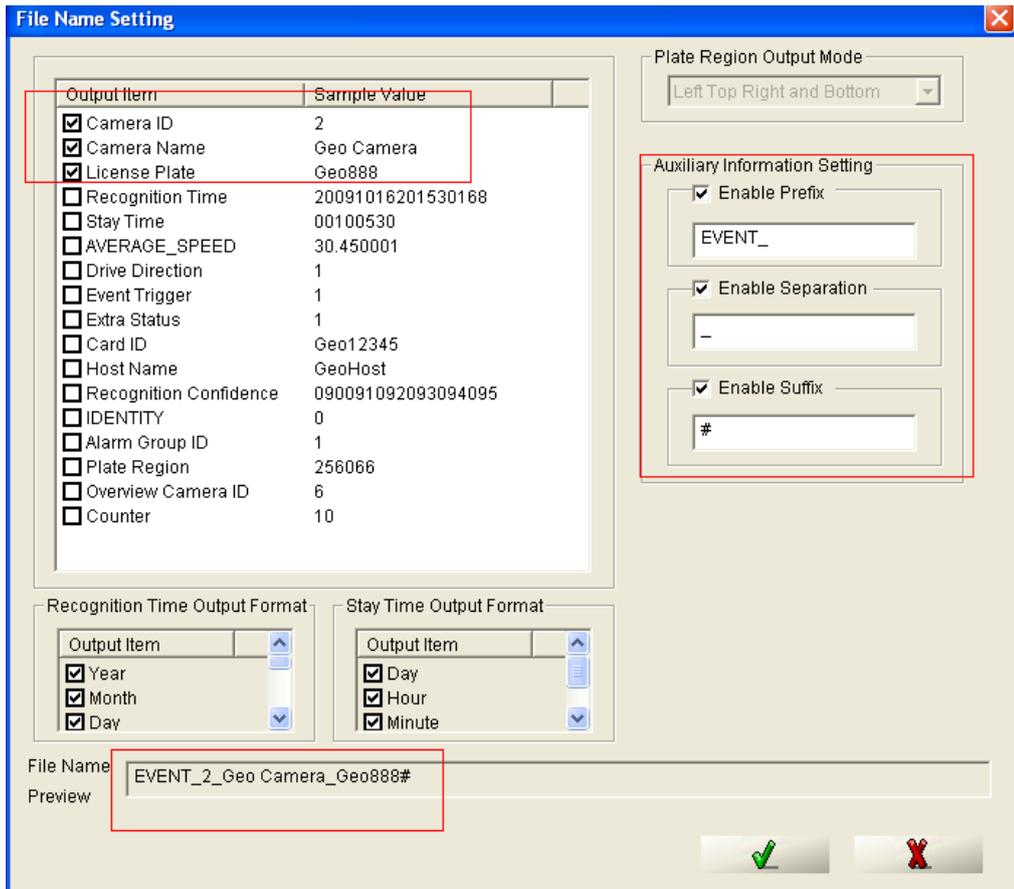
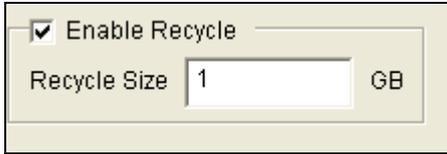


Figure 4-22

13. After you finish the file name settings, click the  button.

14. Select **Enable Recycle** and specify the storage space limit. For example, if you set 1 GB, the system will recycle the files if the storage space is less than 1 GB.



The screenshot shows a dialog box with a checked checkbox labeled "Enable Recycle". Below it is a text input field labeled "Recycle Size" containing the number "1", followed by the unit "GB".

Figure 4-23

15. Click the  button to apply the settings.