

ZenLPR License Plate Recognition System



# **ZenLPR**<sup>™</sup>

# **BY VEER**

# INSTALLATION GUIDE

June 2018



#### **DOCUMENT HISTORY CHANGE**

This section provides a summary of the various proposal versions with a list of changes within each version.

Version	Change Log
0.1	First Draft
0.2	Second Draft



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# **1-** INTRODUCTION

# 1.1 Overview

This document is provided to serve as a guide for the full installation of ZenLPR<sup>™</sup> and all its related components.

#### 1.2 Purpose

The main purpose of this document is to reduce any possible manipulation mistakes, errors and misinterpretations during the software installation phase by the integration team.

#### 1.3 <u>Scope</u>

This document covers the installation of ZenLPR™ and ARH Carmen FreeFlow™

#### 1.4 Out of Scope

This document does not cover:

- Any 'third party' software mentioned in the pre-requisite
- Milestone<sup>™</sup> Installation & Configuration
- Microsoft SQL Server<sup>™</sup> Installation & Configuration
- Server Configuration
- Network communication
- Acceptance procedures
- Validation procedure
- Technical environment

Should any further information about the above topics be needed, please refer to the 'reference document' mentioned below (Section 3.2)

#### 1.5 General Principles

All deliveries must be compliant with the '*Project's System Requirements' provided by the technical team* (Hardware resources, Operating system, System architecture ...). Whilst at the same time respecting the operating methods and conditions.

Contractors have to be able to distinguish between a 'full installation' and a 'patch delivery installation'. It is worth noting that an update installation is different than a full system deployment in terms of procedures, any wrongful installation falls under the contractor's reliability. All deliveries must contain a 'Release Note Document' & and 'Installation Procedure'. Please refer to the latest version of the above-mentioned document for complete detailed information, where each software release has its own "Release Note Document" with the respective updated "Installation Document".





# **2** INSTALLATION MANUAL

### 2.1 Pre-requisites

- Operating System:

Windows Server 2012 or above, Windows 8 or above

- Database:

Microsoft SQL Server 2012 or above (server edition is dependent on the size of the project, the number of simultaneous connections, and the data retention period effecting the database size) For more information, please check SQL SERVER website (<u>https://www.microsoft.com/en-us/sql-server/sql-server-2017-editions</u>)

- System Requirements: ZenLPR<sup>™</sup> needs a minimum of 500MB RAM per stream
- CPU and Storage: dependent of the project size
- **Milestone version:** Milestone 2016 or above (any milestone version before 2016 is not supported by ZenLPR<sup>™</sup>)

# 2.2 Pre-Installation Tasks

Before starting the installation procedure

- A database user must be created as SYSADMIN
  - SQL Authentication must be enabled
- It is worth noting that if SQL Server is on a remote server, TCP/IP protocol should be enabled

https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-a-server-to-listen-on-aspecific-tcp-port)

Sql Server Configuration Manager			
File Action View Help			
🗢 🏟 🙎 📓 🧟 📥			
🛞 SQL Server Configuration Manager (Local)	Protocol Name	Status	
SQL Server Services	Shared Memory	Enabled	
SQL Server Network Configuration (32bit)	To Named Pipes	Disabled	
SQL Native Client 10.0 Configuration (32)	TCP/IP	Enabled	
▲ SQL Server Network Configuration	3 VIA	Disabled	

Before moving to the next step, make sure the machine has connectivity to the Milestone Management server and has connectivity to the SQL Server (in case it was on a remote server).

In case of a distributed LPR architecture, you will have many processing servers for LPR. ARH Carmen FreeFlow™ engine should be installed on all LPR Recognition servers. Installation of Carmen FreeFlow™ is found on section (Section 3.3) of this document Carmen FreeFlow™ Installation.



# 2.3 Installation Procedure

The installation procedure is divided into 4 categories: Client, Administration, Management, and Recognition.

Smart Client Plugin	Install Zen Milestone Smart Client.It will not work if none of the other options is already installed on another machine on the network
Smart Client and Management	Install Zen Milestone Management Client and Smart Client
Client Plugins	plugin
Zen Recognition Server	Install Zen Recognition Server the end point where the processing happens
Zen Managment and	Install Zen System Management Server, the main component
Recognition Server	in the Zen Recognition System

- Smart Client Plugin helps monitor the recognition streams and get the history of past results
- Smart Client and Management Client Plugin is used to manage the System
- Zen Recognition Server (Standalone system) is the processing engine of ZenLPR<sup>™</sup>, taking advantage of the distributed processing capabilities.
- **Zen Management and Recognition Server** (standalone system) is used to activate and orchestrate the recognition servers' functionalities sharing some functionalities with the management



#### 2.3.1 Installing Administration

#### 1- Navigate to the ZenLPR<sup>™</sup> Installation folder and double click on Zen.Installer

Extras	10/10/2017 5:01 PM	File folder	
Source Files	10/10/2017 5:01 PM	File folder	
🗟 colorprogressbar.dll	5/2/2004 11:26 AM	Application extens	10 KB
DataAccessLayer.dll	10/25/2017 6:34 PM	Application extens	57 KB
🗿 DataAccessLayer.pdb	10/25/2017 6:34 PM	Program Debug D	20 KB
📓 InstallerLog.txt	10/28/2017 8:17 AM	TXT File	0 KB
📓 lpr.txt	9/30/2017 7:13 PM	TXT File	0 KB
MutexManager.dll	10/19/2017 6:45 PM	Application extens	6 KB
🗿 MutexManager.pdb	10/19/2017 6:45 PM	Program Debug D	16 KB
Newtonsoft.Json.dll	6/18/2017 1:57 PM	Application extens	639 KB
Newtonsoft.Json.xml	6/18/2017 1:57 PM	XML Document	659 KB
VideoOS.Platform.dll	11/29/2015 10:54	Application extens	2,950 KB
VideoOS.Platform.SDK.dll	11/30/2015 6:16 AM	Application extens	1,144 KB
Zen.Helpers.dll	10/25/2017 6:34 PM	Application extens	15 KB
📳 Zen.Helpers.pdb	10/25/2017 6:34 PM	Program Debug D	28 KB
🛃 Zen.Installer.exe	10/25/2017 6:34 PM	Application	769 KB
Zen.Installer.exe.config	9/29/2017 2:26 PM	CONFIG File	1 KB
📳 Zen.Installer.pdb	10/25/2017 6:34 PM	Program Debug D	100 KB
Zen.Licensing.dll	10/25/2017 6:34 PM	Application extens	22 KB
📳 Zen.Licensing.pdb	10/25/2017 6:34 PM	Program Debug D	50 KB



2- Read the License Agreement Carefully and if you agree, select the radio button "I have read and accepted the Terms and Conditions" then click on Next at the bottom right of the form

🛃 Setup - Zen
License Agreement - Terms and Conditions Please read the following important information before continuing.
License Agreement
ZenLPR Software License Agreement
This Software License is made by (ZenLPR International Management Department referred as ZenLPR IMD, to the Customer as an essential element of the services to be rendered by ZenLPR IMD as defined in the system specification and any associated documents and agreement. System shall mean the deliverable product as defined in these documents.
Customer and ZenLPR IMD agree that this Software License is deemed to be part of, and subject to, the terms of the Agreement applicable to both parties.
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SECTION 2 COPIES, MODIFICATION, AND USE
2.1 Customer may make copies of the software database for archival purposes and as required for modifications to the system. All copies and distribution of the software shall remain within the direct control of Customer and its representatives. 2.2 Customer cannot make modifications to the source code version of the software, if and only if the results of all such modifications are applied solely to the system. In no way does this Software License confer any right in Customer to license, sublicense, sell, or otherwise authorize the use of the software, whether in executable form, source code or otherwise, by any third parties, except in connection with the use of the system as part of Customer's business. 2.3 All express or implied warranties relating to the software shall be deemed null and void in case of any modification to the software made by any party other than ZenLPR IMD.
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thas all necessary rights and authority to execute and deliver this Software License and perform its obligations hereunder and to grant the rights granted under this Software License to Customer;     I have read and accepted the Terms and Conditions     I do not accept the Terms and Conditions
Cancel Next

3- Select the "Smart Client and Management Client Plugins" button, then click on Next at the bottom right of the form (Smart client and management client plugins should be the first to be installed)

*		Setup - Zen	
Product Selection Select which Zen comp	ponent you want to install.		
Select an installation	on option:		
Smart Client Plugin	Install Zen Milestone Smart Client.It will not work if none of the other options is already installed on another machine on the network		
Smart Client and Management Client Plugins	Install Zen Milestone Management Client and Smart Client plugin		
Zen Recognition Server	Install Zen Recognition Server the end point where the processing happens		
Zen Managment and Recognition Server	Install Zen System Management Server, the main componer in the Zen Recognition System	t	
			Cancel Dook
			Cancel Back Next





#### 4- Fill in the **SQL Server name** and instance name

In this case, we are using the default SQL Instance (MSSQLSERVER), which means we don't have to add it. However, in the SQL server name we can fill: "\MSSQLSERVER", then the SQL User and password, mentioned in section 2.2 Pre-Installation Tasks page 6 and click Validate to check connectivity with the server.

Setup - Zen
lon't already have a Microsoft SQL Server instance installed, you can use an exisitng SQL Server on the network
Validate
an exisiting one. If you want to use and existing one, specify what
Cancel Back Install

Note that If the connection is successful then the Database selection is enabled, otherwise you will receive an error message indicating the error



-

5- Selecting or creating database

In case you are installing ZenLPR<sup>™</sup> for the first time

select "Create New Database"  $^{\odot \ \rm Create \ New \ Database}$ 

- fill the name of the database to be created.

If the database already exists and is compatible with this version V5.0.1

- select "Use Existing Database"
- choose the already existing database from the drop down

⊙ Use Exisiting Database ZenLPR ▼

If this is an installation of another component (refer to section 2.3.1 page 7) in the same system then select the existing database.

Once you are done with the database connectivity and credentials, click

*		Setup - Zen	×
Database Settings			Zenlpr
Select Microsoft	SQL Server		
Select the SQL Serve install a new one from	r that you want to use. If you don' the Extras folder, or you can use	't already have a Microsoft SQL Server instance installed, you can a an exisitng SQL Server on the network	
SQL Server Name:	WIN-F44EV0M1JUL		
SQL Username :	ZenLPR		
SQL Password :	•••••	Validate	
Select database Select if you want to c should happen to the	reate a new database or use an e existing data.	exisiting one. If you want to use and existing one, specify what	
O Use Exisiting Database	master ·		
	Existing Data <ul> <li>Keep Existing Data</li> <li>Clear Data</li> </ul>		
⊙ Create New Database	Zen		
		Cancel	3ack Install



7-

#### 6- When the Installation starts, you will have the below progress bar, wait until all components are done

<u>.</u>	Setup - Zen	X
Installation In Progress Installing selected components		
Copying Files		
Connecting to database Connection successful		
Creating Database Folders Creating Database Folders Completed Creating Database Folders Database Created Successfully		
Greating Tables Tables Created Successfully Database Configuration Complete		
Creating Directories Finished Creating Directories Starting File copy		
Copying Anticle viscalinetas futc Copying AudioPlayerDotNet dll Copying AudioPlayerDotNet interop.dll		
Copying AVIExporterClient/MV all Copying boost_chrono-vc120mt-1_57.dll Copying boost_regex-vc120mt-1_57.dll		
Copying boost_semailization-vo12Umt-1_5/all Copying boost_system-vo12Umt-1_57.dll Copying boost_thread-vo12Umt-1_57.dll		
		Cancel Next
Once completed (progress bar completely filled)	click Next	
	Setup - Zen	×
Installation In Progress Installing selected components		Zenlpr
Finalizing Installation		
· · · · · · · · · · · · · · · · · · ·		
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Copying VideoOS Ulmanifest Copying VSLangProj2.dl Copying VSLangProj2.dl		
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Copying Zen MiPPlugin.dll Copying Zen MiPPlugin.pdb Files copying Zen MiPPlugin.pdb Files copied successfully Configuring application Configuration Complete Registering Machine on Server Completed Registering Machine on Server Successfully		



8- If this machine is an added device to a previously existing licensed system then Hit Generate License to generate a request file (e.g. : XXX.Irq) to be emailed to VEER in order to receive the needed License to be activated on this machine for a full operation. Then click **Finish**.

±	Setup - Zen	X
Finished Installing		Zenlpr
Installation Complete Component installation completed successfully, click "Generate License" button to get the Single	Machine license file in order to license	
this machine alone, or request license for the whole system from the Management Client		
	Generate License	
		Finish





#### 2.3.2 Installing Client

1-	Navigate to 7enI PR™	Installation	folder and	double cliq	k on Zen Inst	aller
-	Nuvigute to Zenti N	matunation	ioluci ullu	uoubic cit		anci

10/10/2017 5:01 PM	File folder	
10/10/2017 5:01 PM	File folder	
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10/25/2017 6:34 PM	Application extens	57 KB
10/25/2017 6:34 PM	Program Debug D	20 KB
10/28/2017 8:17 AM	TXT File	0 KB
9/30/2017 7:13 PM	TXT File	0 KB
10/19/2017 6:45 PM	Application extens	6 KB
10/19/2017 6:45 PM	Program Debug D	16 KB
6/18/2017 1:57 PM	Application extens	639 KB
6/18/2017 1:57 PM	XML Document	659 KB
11/29/2015 10:54	Application extens	2,950 KB
11/30/2015 6:16 AM	Application extens	1,144 KB
10/25/2017 6:34 PM	Application extens	15 KB
10/25/2017 6:34 PM	Program Debug D	28 KB
10/25/2017 6:34 PM	Application	769 KB
9/29/2017 2:26 PM	CONFIG File	1 KB
10/25/2017 6:34 PM	Program Debug D	100 KB
10/25/2017 6:34 PM	Application extens	22 KB
10/25/2017 6:34 PM	Program Debug D	50 KB
	10/10/2017 5:01 PM 10/10/2017 5:01 PM 5/2/2004 11:26 AM 10/25/2017 6:34 PM 10/25/2017 6:34 PM 10/28/2017 8:17 AM 9/30/2017 7:13 PM 10/19/2017 6:45 PM 10/19/2017 6:45 PM 6/18/2017 1:57 PM 6/18/2017 1:57 PM 6/18/2017 1:57 PM 11/29/2015 10:54 11/30/2015 6:16 AM 10/25/2017 6:34 PM 10/25/2017 6:34 PM 10/25/2017 6:34 PM 10/25/2017 6:34 PM	10/10/2017 5:01 PM       File folder         10/10/2017 5:01 PM       File folder         5/2/2004 11:26 AM       Application extens         10/25/2017 6:34 PM       Application extens         10/25/2017 6:34 PM       Program Debug D         10/28/2017 8:17 AM       TXT File         9/30/2017 7:13 PM       TXT File         10/19/2017 6:45 PM       Application extens         10/19/2017 6:45 PM       Application extens         10/19/2017 6:45 PM       Application extens         6/18/2017 1:57 PM       Application extens         6/18/2017 1:57 PM       XML Document         11/29/2015 10:54       Application extens         10/25/2017 6:34 PM       Program Debug D         10/25/2017 6:34 PM       Application extens         10/25/2017 6:34 PM       Application extens         10/25/2017



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SECTION 2 COPIES, MODIFICATION, AND USE
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I have read and accepted the Terms and Conditions
O I do not accept the Terms and Conditions
Cancel Next

3- select "Smart Client Plugin" and click "next" at the bottom right of the form

		Setup - Zen	
roduct Selection Select which Zen comp	onent you want to install.		
Select an installation	n option:		
Smart Client Plugin	Install Zen Milestone Smart Client. It will not work if none of the other options is already installed on another machine on the network		
Smart Client and Management Client Plugins	Install Zen Milestone Management Client and Smart Client plugin		
Zen Recognition Server	Install Zen Recognition Server the end point where the processing happens		
Zen Managment and Recognition Server	Install Zen System Management Server, the main component in the Zen Recognition System		
			Cancel Back Ne

- 4- Select Microsoft SQL Server
  - Fill the SQL server name



- Fill the SQL Username
- Fill password, mentioned in section 2.2 Pre-Installation Tasks
- click Validate to check connectivity with the server. If connection successful then the Database

lection will be e	nabled	
		Setup - Zen
Database Settings		
Select Microsoft	SQL Server	
Select the SQL Serve install a new one from	er that you want to use. If you don n the Extras folder, or you can use	t already have a Microsoft SQL Server instance installed, you can ₂ an exisitng SQL Server on the network
SQL Server Name:	WIN-F44EV0M1JUL	
SQL Username :	ZenLPR	
SQL Password :	•••••	Validate
Select database		
Select if you want to o should happen to the	create a new database or use an existing data.	exisiting one. If you want to use and existing one, specify what
O Use Exisiting Database	e 🗾 👻	
	Exisiting Data	
	O Clear Data	
Oreate New Database	Zen	

5- In the client installation, only "use existing database" is enabled since administration recognition and management are already installed, select an existing database then click install at the bottom right of the form

•	Setup - Zen	×
Database Settings		
Select Microsoft SQL Server		
Select the SQL Server that you want to use. If you d install a new one from the Extras folder, or you can	on't already have a Microsoft SQL Server instance installed, you can use an exisitng SQL Server on the network	
SQL Server Name: WIN-F44EV0M1JUL		
SQL Username : ZenLPR		
SQL Password :	Validate	
Select database Select if you want to create a new database or use a should happen to the existing data.	in exisiting one. If you want to use and existing one, specify what	
<ul> <li>Use Existing Database</li> <li>Existing Data</li> <li>Keep Existing Data</li> <li>Clear Data</li> </ul>		
O Create New Database Zen		
	Cancel Back Insta	III



#### 6- When the Installation starts, you will have the below progress bar, wait until all components are done

E .	Setup - Zen	X
Installation In Progress Installing selected components		Zenlpr
Copying Files Connecting to delabase Connection successful Creating Database Folders Creating Database Folders Database Created Successfully Creating Tables Tables Created Successfully Database Configuration Complete Finished Creating Directories Finished Creating Creating Copying Audio PlayerDetNet dil Copying boost_reserva120mt-1_57.dil Copying boost_stremev120mt-1_57.dil Copying boost_stremev120mt-1_57.dil Copying boost_thread-vc120mt-1_57.dil		
		Cancel Next

#### 7- When all components are installed click on next at the bottom right of the form

🛃 Setup - Zen	×
Installation In Progress Installing selected components	
Finalizing Installation	
Copying VideoOS Platform.dll.CodeAnalysisLog.xml Copying VideoOS Platform.dll.Stocdeanalysissucceeded Copying VideoOS Platform.SDK.dll Copying VideoOS Platform.SDK.dll Copying VideoOS Platform.SDK.dll Copying VideoOS Platform.SDK.Mog.dll Copying VideoOS Platform.SDK.MemotePlettevalTasks.dll Copying VideoOS Platform.SDK.MemotePlettevalTasks.dll Copying VideoOS Platform.Transect.dll Copying VideoOS Platform.Transect.dll Copying VideoOS Platform.Transect.dll Copying VideoOS Platform.Transect.dll Copying VideoOS Platform.Transect.dll Copying VideoOS Platform.Transect.dll Copying VideoOS InoinK1.dll Copying VideoOS InoinK1.dll Copying VideoOS InoinK1.dll Copying VisungProj2.dll Copying Zen.Jepers adl Copying Zen.Hepers adl Copying Zen.Hepers adl Copying Zen.Licensing adll Copying Zen.MpPLugin.dll.corfig Copying Zen.MpPLugin	
	Cancel Next

8- If this machine is an added device to a previously existing licensed system, then Hit Generate License to generate a request file to be emailed to VEER in order to receive the License to operate this machine.



#### Click finish at the bottom right of the form

<u>•</u>	Setup - Zen	X
Finished Installing		Zenlpr
Installation Complete		
Component installation completed successfully, click "Generate License" button to get the Single this machine alone, or request license for the whole system from the Management Client	Machine license file in order to license	
	Generate License	
		Finish



#### 2.3.3 Installing Management

#### 1- Navigate to ZenLPR Installation folder and double click on Zen.Installer

_				
	Extras	10/10/2017 5:01 PM	File folder	
	Source Files	10/10/2017 5:01 PM	File folder	
\$	colorprogressbar.dll	5/2/2004 11:26 AM	Application extens	10 KB
\$	DataAccessLayer.dll	10/25/2017 6:34 PM	Application extens	57 KB
Ę.	DataAccessLayer.pdb	10/25/2017 6:34 PM	Program Debug D	20 KB
2	InstallerLog.txt	10/28/2017 8:17 AM	TXT File	0 KB
2	lpr.txt	9/30/2017 7:13 PM	TXT File	0 KB
\$	MutexManager.dll	10/19/2017 6:45 PM	Application extens	6 KB
Ę.	MutexManager.pdb	10/19/2017 6:45 PM	Program Debug D	16 KB
\$	Newtonsoft.Json.dll	6/18/2017 1:57 PM	Application extens	639 KB
	Newtonsoft.Json.xml	6/18/2017 1:57 PM	XML Document	659 KB
\$	VideoOS.Platform.dll	11/29/2015 10:54	Application extens	2,950 KB
\$	VideoOS.Platform.SDK.dll	11/30/2015 6:16 AM	Application extens	1,144 KB
\$	Zen.Helpers.dll	10/25/2017 6:34 PM	Application extens	15 KB
Ą	Zen.Helpers.pdb	10/25/2017 6:34 PM	Program Debug D	28 KB
+	Zen.Installer.exe	10/25/2017 6:34 PM	Application	769 KB
2	Zen.Installer.exe.config	9/29/2017 2:26 PM	CONFIG File	1 KB
Ę.	Zen.Installer.pdb	10/25/2017 6:34 PM	Program Debug D	100 KB
\$	Zen.Licensing.dll	10/25/2017 6:34 PM	Application extens	22 KB
Ę.	Zen.Licensing.pdb	10/25/2017 6:34 PM	Program Debug D	50 KB



3-

# 2- Read the License Agreement Carefully and if you agree, select the radio button "I have read and accepted the Terms and Conditions" then click on Next at the bottom right of the form

Setup - Zen
License Agreement - Terms and Conditions Please read the following important information before continuing.
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ZenLPR Software License Agreement
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SECTION 2 COPIES, MODIFICATION, AND USE
2.1 Customer may make copies of the software database for archival purposes and as required for modifications to the system. All copies and distribution of the software shall remain within the direct control of Customer and its
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2.3 All express or implied warranties relating to the software shall be deemed null and void in case of any modification to the software made by any party other than ZenLPR IMD.
SECTION 3 WARRANTIES AND REPRESENTATIONS
ZenLPR IMD represents and warrants to Customer that:
3.1 it has all necessary rights and authority to execute and deliver this Software License and perform its obligations hereunder and to grant the rights granted under this Software License to Customer;
Ihave read and accepted the Terms and Conditions
O I do not accept the Terms and Conditions
Cancel Next

#### select "Zen Management and Recognition Server" then click on Next at the bottom right of the form

*		Setup - Zen			
Product Selection Select which Zen comp	ponent you want to install.				ENLPR
Select an installation	on option:				
Smart Client Plugin	Install Zen Milestone Smart Client.It will not work if none of the other options is already installed on another machine on the network				
Smart Client and Management Client Plugins	Install Zen Milestone Management Client and Smart Client plugin				
Zen Recognition Server	Install Zen Recognition Server the end point where the processing happens				
Zen Managment and Recognition Server	Install Zen System Management Server, the main component in the Zen Recognition System				
			Cancel	Back	Next



4- Fill in the SQL Server name and instance name, then the SQL User and password, mentioned in section 2.2 Pre-Installation Tasks

Click Validate to check connectivity with the server. If connection successful then the Database selection will be enabled

•	Setup - Zen X
Database Settings	
Select Microsoft SQL Server	
Select the SQL Server that you want to use. If you install a new one from the Extras folder, or you can	don't already have a Microsoft SQL Server instance installed, you can use an exisiting SQL Server on the network
SQL Server Name: WIN-F44EV0M1JUL	
SQL Username : ZenLPR	
SQL Password : •••••	Validate
Select database Select if you want to create a new database or use should happen to the existing data.	an exisiting one. If you want to use and existing one, specify what
⊙ Use Existing Database ZenLPR ▼	
Exisiting Data	
() Gear Data	
Create New Database Zen	
	Cancel Back Next



5- If this is a fresh installation then you should select "Create New Database" and input the name of the database to be created. If the database already exists and is compatible with this version V5.0.1 then select "Use Existing Database" and select it from the Dropdown list, or if this is an installation of another component in the same system, then select the created database. Click on Next at the bottom right of the form

2	Setup - Zen
Database Settings	
Select Microsoft SQL Server	
Select the SQL Server that you want to use. If you don install a new one from the Extras folder, or you can use	't already have a Microsoft SQL Server instance installed, you can ₂ an exisitng SQL Server on the network
SQL Server Name: WIN-F44EV0M1JUL	
SQL Username : ZenLPR	
SQL Password : •••••	Validate
Select database	
Select if you want to create a new database or use an should happen to the existing data.	exisiting one. If you want to use and existing one, specify what
Use Existing Database     ZenLPR     ·	
Exisiting Data	
⊙ Keep Existing Data	
🔿 Clear Data	
O Create New Database Zen	
	Cancel Back Next

6- select the destination folder to install the system, and fill the Milestone Server name or IP Address along with the user used to login to Milestone, either an authenticated windows user or a basic user,



#### while also selecting the type of user selected. Then click on install at the bottom right of the form

÷.	Setup - Zen	
Z	en Management Settings Configure your ZEN management server to communicate with Milestone server.	Zenlpr
	Select Installation Folder	
	Select where you want the Zen application folder to be located	
	File Path : C:\Program Files\Zen\	_
	Select Milestone Server	
	Enter Milestone server address and your Milestone credentials to access the server	
	Server : WIN-F44EV0M1JUL	
	Username : ZenLPRU	
	Password : •••	
	Authentication : Basic ·	
	Cancel	ack Install

7- Installation should start and look like this, and once finished the progress bar will be full

	Setup - Zen	
Installation In Progress Installing selected components		
Copying Files		
Connecting to database Connection successful Creating Database Folders Database Creating Database Folders Database Creating Database Folders Database Configuration Complete Creating Directories Frained Creating Directories Starting File coop Copying Audo/PlayerDottket dil Copying Audo/PlayerDottket.pitentenp dil Copying boost_chrone.vc120mt-1_57.dil Copying boost_setem=vc120mt-1_57.dil Copying boost_system=vc120mt-1_57.dil		
		Cancel Next



# 8- Once complete click next at the bottom right of the form

1	Setup - Zen	x
Installation In Progress Installing selected components		Zenlpr
Finalizing Installation		
Copying VideoOS Platform dll Code Analysis Log xml Copying VideoOS Platform dll Jastcodeanalysissucceeded Copying VideoOS Platform Sink Vite dll Copying VideoOS Platform Sink Kepot dll Copying VideoOS Platform Sink Kepot dll Copying VideoOS Platform Sink Kedia dll Copying VideoOS Platform Sink Kedia dll Copying VideoOS Platform Sink Kedia dll Copying VideoOS Platform Tarsact all Copying VideoOS Ull marfest Copying ViseagPhagBodI Copying viseagPhagBodI Copying viseagPhagBodI Copying Zin Heipers dll Copying Zin Licensing dl Copying Zin Licensing dl		
Configuration Complete Registering Machine on Server Completed Registering Machine on Server Successfully		~
		Cancel Next



9- If this machine is an added device to a previously existing licensed system, then Hit Generate License to generate a request file to be emailed to VEER in order to receive the License to operate this machine. Then click Finish at the bottom right of this form.

•	Setup - Zen	X
Finished Installing		Zenlpr
Installation Complete		
Component installation completed successfully, click "Generate License" button to get the Single this machine alone, or request license for the whole system from the Management Client	Machine license file in order to license	
	Generate License	
		Finish



#### 2.3.4 Installing Recognition

#### 1- Navigate to ZenLPR Installation folder and double click on Zen.Installer

_				
	Extras	10/10/2017 5:01 PM	File folder	
	Source Files	10/10/2017 5:01 PM	File folder	
\$	colorprogressbar.dll	5/2/2004 11:26 AM	Application extens	10 KB
\$	DataAccessLayer.dll	10/25/2017 6:34 PM	Application extens	57 KB
Ę.	DataAccessLayer.pdb	10/25/2017 6:34 PM	Program Debug D	20 KB
2	InstallerLog.txt	10/28/2017 8:17 AM	TXT File	0 KB
2	lpr.txt	9/30/2017 7:13 PM	TXT File	0 KB
\$	MutexManager.dll	10/19/2017 6:45 PM	Application extens	6 KB
Ę.	MutexManager.pdb	10/19/2017 6:45 PM	Program Debug D	16 KB
\$	Newtonsoft.Json.dll	6/18/2017 1:57 PM	Application extens	639 KB
	Newtonsoft.Json.xml	6/18/2017 1:57 PM	XML Document	659 KB
\$	VideoOS.Platform.dll	11/29/2015 10:54	Application extens	2,950 KB
\$	VideoOS.Platform.SDK.dll	11/30/2015 6:16 AM	Application extens	1,144 KB
\$	Zen.Helpers.dll	10/25/2017 6:34 PM	Application extens	15 KB
Ą	Zen.Helpers.pdb	10/25/2017 6:34 PM	Program Debug D	28 KB
+	Zen.Installer.exe	10/25/2017 6:34 PM	Application	769 KB
2	Zen.Installer.exe.config	9/29/2017 2:26 PM	CONFIG File	1 KB
Ę.	Zen.Installer.pdb	10/25/2017 6:34 PM	Program Debug D	100 KB
\$	Zen.Licensing.dll	10/25/2017 6:34 PM	Application extens	22 KB
Ę.	Zen.Licensing.pdb	10/25/2017 6:34 PM	Program Debug D	50 KB



# 2- Read the License Agreement Carefully and if you agree, select the radio button "I have read and accepted the Terms and Conditions" then click on Next at the bottom right of the form

Setup - Zen
License Agreement - Terms and Conditions Please read the following important information before continuing.
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1.1 It has all necessary rights and authority to execute and deliver this Software License and perform its obligations hereunder and to grant the rights granted under this Software License to Customer;     I have read and accepted the Terms and Conditions     I do not accept the Terms and Conditions
Cancel Next

# 3- select "*Zen Management and Recognition Server*" then click on the next bottom at the bottom right of the form

Setup - Zen	×
ponent you want to install.	
on option:	
Install Zen Milestone Smart Client.it will not work if none of the other options is already installed on another machine on the network	
Install Zen Milestone Management Client and Smart Client plugin	
Install Zen Recognition Server the end point where the processing happens	
Install Zen System Management Server, the main component in the Zen Recognition System	
	Cancel Back Next
	Install Zen Miestone Smart Client.1t will not work if none of the options is already installed on another machine on the network.         Install Zen Miestone Management Client and Smart Client plugn         Install Zen Recognition Server the end point where the processing happens         Install Zen Recognition Server, the main component in the Zen Recognition System



4- Fill in the SQL Server name and instance name, then the SQL User and password, mentioned in section 2.2 Pre-Installation Tasks and click Validate to check connectivity with the server. If connection successful then the Database selection will be enabled

±	Setup - Zen
Database Settings	
Select Microsoft SQL Server	
Select the SQL Server that you want to use. If you don install a new one from the Extras folder, or you can use	't already have a Microsoft SQL Server instance installed, you can ₂ an exisitng SQL Server on the network
SQL Server Name: WIN-F44EV0M1JUL	
SQL Username : ZenLPR	
SQL Password :	Validate
Select database	
Select if you want to create a new database or use an should happen to the existing data.	exisiting one. If you want to use and existing one, specify what
Use Exisiting Database     ZenLPR     T	
Exisiting Data	
<ul> <li>Keep Existing Data</li> </ul>	
O Clear Data	
O Create New Database Zen	
	Cancel Back Next

5- If this is a fresh installation then you should select "Create New Database" and input the name of the database to be created. If the database already exists and is compatible with this version V5.0.1 then select "Use Existing Database" and select it from the Dropdown list, or if this is an installation of another component in the same system, then select the created database



#### Click next on the bottom right of the form

*		Setup - Zen
Database Settings		
Select Microsoft	SQL Server	
Select the SQL Serve install a new one from	r that you want to use. If you don the Extras folder, or you can use	't already have a Microsoft SQL Server instance installed, you can e an exisitng SQL Server on the network
SQL Server Name:	WIN-F44EV0M1JUL	
SQL Username :	ZenLPR	
SQL Password :	•••••	Validate
Select database Select if you want to o should happen to the	reate a new database or use an existing data.	exisiting one. If you want to use and existing one, specify what
<ul> <li>Use Exisiting Database</li> </ul>	ZenLPR •	
	Exisiting Data	
	C Reep Existing Data	
	O Clear Data	
O Create New Database	Zen	
		Cancel Back Next

6-

Now select the destination folder to install the system, and fill the Milestone Server name or IP Address along with the user used to login to Milestone, either an authenticated windows user or a basic user, while also selecting the type of user selected. Then hit Install at the bottom right of the form

*	Setup - Zen	×
Z	anagement Settings onfigure your ZEN management server to communicate with Milestone server.	Zenlpr
	ect Installation Folder	
	ect where you want the Zen application folder to be located	
	Path : C:\Program Files\Zen\	
	lect Milestone Server	
	er Milestone server address and your Milestone credentials to access the server	
	ver : WIN-F44EV0M1JUL	
	ername : ZenLPRU	
	ssword : •••	
	hentication : Basic	
	Cancel	Back Install



#### 7- Installation should start and look like this, and once finished the progress bar will be full

<u>*</u>	Setup - Zen	<b>^</b>
Installation In Progress Installing selected components		
Copying Files		
Connecting to database Connection successful Creating Database Folders Completed Creating Database Folders Database Created Successfully Creating Tables Tables Created Successfully Database Configuration Complete Creating Directories Starting File coop Copying Audio Payer Det Net all Copying Succi Payer Det Net all Copying Succi Payer Det Net all Copying Succi Payer Det Net all Copying Boost_temper vc120mt-1_57.dll Copying Boost_thread-vc120mt-1_57.dll Copying Boost_thread-vc120mt-1_57.dll		
		Cancel Next

8- Once complete click on the next bottom at the bottom right of the form

	Setup - Zen	X
Installation In Progress Installing selected components		
Finalizing Installation		
Copying VideoOS Platform dll CodeAnalysisLog.xml Copying VideoOS Platform dll Lastcodeanalysissucceeded Copying VideoOS Platform SDK Report dll Copying VideoOS Platform SDK Report dll Copying VideoOS Platform SDK Report dll Copying VideoOS Platform SDK Media dll Copying VideoOS Platform SDK Media dll Copying VideoOS Platform SDK Media dll Copying VideoOS Platform Transect dll Copying VideoOS Dll manifest Copying VideoOS ToldKi dll Copying VideoOS ToldKi dll Copying Zenal Platform Transect dlll Copying Zenal Platform Transect dlll Copying Zenal Platform		
		Cancel Next

9- If this machine is an added device to a previously existing licensed system, then Hit Generate License to generate a request file to be emailed to VEER in order to receive the License to operate this



Setup - Zen	x
Finished Installing	Zenlpr
Installation Complete	
Component installation completed successfully, click "Generate License" button to get the Single Machine license file in order to license this machine alone, or request license for the whole system from the Management Client	
Generate License	
	Finish

#### machine. Then click on the finish button at the bottom right of the form



# 2.4 Basic Troubleshooting

Most errors that occur are caused by windows permission. In case any errors occur during the installation, refer to InstallerLog.txt

📄 InstallerLog	10/23/2017 7:09 PM	Text Document	2 KB

In case a shortcut isn't created after completing either Zen Management or Zen Recognition Servers, then navigate to the installation directory and create a shortcut of "Zen Recognition Server.exe"

#### 2.5 Post-Installation

After installing all the components of the system, a license the system and make it operational. After the installation and upon opening either Milestone Smart Client or Milestone Management Client or Zen Management for the first time, you will get the following error

Zen License Invalid
Invalid License!
ОК



In order to license the system, follow those steps:

Open Milestone Management Client



#### 2.5.1 In the left panel, at the bottom of the tree, expand the MIP Plugins





#### 2.5.2 select Zen as shown, and the following window will be displayed on the right

E I Z	Plug-ins Cen					
E Lice	cense Information					
	MachineName	AppName	ExpDate	LprCameras	AccrCameras	mZenLicense
•	WIN-F44EV0M1JUL	Administration		0	0	
	WIN-F44EV0M1JUL	Management		0	0	
	WIN-F44EV0M1JUL	Client		0	0	
	WIN-F44EV0M1JUL	Recognition		0	0	
R	Request Single License	Generate request file for a single machine from the sel	ected table above			
F	Request Full License	Generate request file for the full system machines				
	Browse License	Browse License File to activate machines				

#### 2.5.3 Click 'Request Fill License' and set the location to save the ".zrf" file

			<		Save As		x
e Open P	Platform Company		€ 🗇 ▾ ↑ 🔳 Des	ktop 🕨		✓ 🖒 Search Desktop	ρ
Zen			Organize 🔻 New folde	er		•= ¥=	0
=•	License Information		☆ Favorites ■ Desktop	Libraries System Folder	Administrator System Folder	Computer System Folder	
	MachineName WIN-F44EV0M1JUL WIN-F44EV0M1JUL WIN-F44EV0M1JUL WIN-F44EV0M1JUL		<ul> <li>Bownloads</li> <li>Recent places</li> <li>Libraries</li> <li>Documents</li> <li>Music</li> <li>Pictures</li> <li>Videos</li> <li>Videos</li> <li>Computer</li> <li>Network</li> </ul>	Network System Folder	PreRequisites File folder	Release Installer File folder	
			File name: Full	-System-License-Request			~
	Request Single License	Gene	Save as type: Requ	uest License Files			~
	Request Full License	Gene	lide Folders			Save Cancel	
	Browse License	Brows		nacomes			





#### 2.5.4 Email the generated file to VEER <u>anpr@veertec.com</u>

2.5.5 After receiving the ".lic" file, open the same window and click Browse License



#### 2.5.6 When the system is licensed it will display in the same window the license information

		MachineName	AppName	ExpDate	LprCameras	AccrCameras	mZenLicense
	▶		Administration	10/23/2018 7:26 PM	2	2	Version : 1.0
1		WIN-F44EV0M1JUL	Management	10/23/2018 7:26 PM	2	2	Version : 1.0
1		WIN-F44EV0M1JUL	Client	10/23/2018 7:26 PM	0	0	Version : 1.0
1		WIN-F44EV0M1JUL	Recognition	10/23/2018 7:26 PM	2	2	Version : 1.0

2.5.7 close the Management Client and open it again to gain access to the Zen Functionality





# 2.6 Technical Tests

To perform technical test:

- Try adding a server and activating a camera
- try adding an alert type to validate that the connectivity with the database is working (ref to ZenLPR Admin Guide)
- try opening Zen Recognition Server and validate that there are no errors while starting the system (ref to ZenLPR Admin Guide).

### 2.7 Uninstall or Roll-Back

In order to uninstall the ZenLPR system, depending on which component is installed on the machine follow the below instructions

- 2.7.1 The Client Just delete the folder located at "C:\Program Files\Milestone\MIPPlugins\Zen.MipPlugin"
- 2.7.2 The Administration Just delete the folder located at "C:\Program Files\Milestone\MIPPlugins\Zen.MipPlugin"
- 2.7.3 The Management Delete the folder where the system is installed
- 2.7.4 The Recognition Delete the folder where the system is installed
- 2.7.5 Removing the database Login to the SQL Server Management Studio and connect to the used SQL Server Address with instance name then Delete the created database being used by ZenLPR

ZenLPR doesn't store anything in the registry or in the AppData of any system it is installed on, so removing the files where it is installed removes everything related to ZenLPR



# **3** Additional Information

### 3.1 Acronyms, Abbreviations

The Client: refers to the plugin that is used in Milestone Smart Client

The Administration: refers to the plugin that is used in Milestone Management Client

The Management: refers to the ZenLPR Management Server

The Recognition: refers to the ZenLPR Recognition Server that is a standalone application or included in The Management

#### 3.2 Reference Documents

Carmen FreeFlow Installation Document Milestone Installation Document ZenLPR Admin Document ZenLPR User Guide

#### 3.3 Carmen FreeFlow Installation

3.3.1 Navigate to the Carmen FreeFlow engine folder supplied to you with the ZenLPR Installation files, and go to setup.

퉬 ms	10/23/2017 6:59 PM	File folder	
퉬 setup.x64	10/23/2017 6:59 PM	File folder	
퉬 setup.x86	10/23/2017 6:59 PM	File folder	
퉬 setupdata	6/14/2017 10:39 AM	File folder	
🐳 Arh	1/9/2015 7:23 AM	ICO File	15 KB
autorun	4/21/2017 12:29 PM	Setup Information	1 KB
📄 readme	6/21/2016 8:08 AM	TXT File	4 KB
🜲 setup	7/14/2016 7:36 AM	Application	932 KB



#### 3.3.2 Agree on license agreement

End-User Licence	x
END-USER LICENSE AGREEMENT FOR CARMEN NUMBER PLATE RECOGNITION SOFTWARE	^
This End-User License Agreement ("AGREEMENT") is a legal agreement between you (either an individual or a single entity) and ARH Informatics Company Limited by Shares ("ARH"), for the use of CAI Number Plate Recognition Software identified below, which includes computer software with the associated media and printed materials and "online" or electronic documentation, hereinafter referred to as the "SOFTWARE PRODUCT" or "SOFTWARE". By installing, copying, or otherwise using the SOETWARE, you	
agree to be bound by the terms of this AGREEMENT.	
SOFTWARE PRODUCT LICENSE	
	~
Exit I Agree	

#### 3.3.3 Select CARMEN FULL

Purpose of the installation				
Select the installation package:				
C CARMEN Minimal :	drivers, function libraries			
C CARMEN Typical :	recommended for Users drivers, function libraries, demos			
recommended for Developers CARMEN Full : drivers, function libraries, demos, utils, SDK, docs				
Exit	Next			



#### 3.3.4 While installation is running, you will be prompted with the following popup



Make sure to select "Always trust software from ARH Informatics Private Limited Company" then click install.

• Windows Se	ecurity X
Would you like to install this device software? Name: ARH Publisher: ARH Informatics Private Limited Company	
Always trust software from "ARH Informatics Private Limited Company".	Install Do <u>n</u> 't Install
You should only install driver software from publishers safe to install?	you trust. How can I decide which device software is



#### 3.3.5 Installation Complete, click Finish

CARMEN FREEFLOW Installation (32 bit version)	
Create Menu '\SDK\C\Cmanpr Examples'ok Create Menu '\SDK\CPP\Cmanpr Examples'ok Create Menu '\SDK\C#\Cmanpr Examples'ok Create Menu '\SDK\Java\Cmanpr Examples'ok Create Menu '\SDK\Java\Cmanpr Examples'ok Create Menu '\SDK\Visual Basic:NET\Cmanpr Examples'ok Create Menu '\Documentations\Programmers manual\C\Cmanpr (HTMI Create Menu '\Documentations\Programmers manual\C++\Cmanpr (HT Create Menu '\Documentations\Programmers manual\C++\Cmanpr (HT Create Menu '\Documentations\Programmers manual\C++\Cmanpr (HT Create Menu '\Documentations\Programmers manual\CAtive X\Cmanpr Create Menu '\Documentations\Programmers manual\CAANPR (PDF)'c Add full access changing to C:\Program Files (x86)\CARMEN GX\ok. Change full access to C:\Program Files (x86)\CARMEN GX\ok. Change full access to C:\ProgramData\gxok. Installation is completed.	
< III >	
Finish	





3.3.6 Now adding the supplied country engine, hit Start -> Engine Manager (x64), and this window should open

Engine Manage	r for 64-bit engines 🛛 🗕 🗖 🗙
Engine(s) directory:	
	Browse
Engine(s) package:	
]	Browse
Found engines:	Installed engines:
	cmanpr-7.2.7.108 : general cmanpr-7.3.9.74 : latin_general
	- Engine type
	• ANPR • ACCR • UIC
	Default engine: Change
	cmanpr-7.2.7.108:general
Install engines	Uninstall engines
3.	



3.3.7 Click "Browse" which is next to "Engine(s) Package" and navigate to the folder where your country engine is located, usually provided along with ZenLPR

<b>e</b>		Open				x
) 🛞 🐑 🕈 퉬 → PreRequisites → cmanpr-9.69-arab → cmanpr-9.69-arab → windows				<b>∀ Ċ</b> S	earch windows	P
Organize 🔻 New folder						0
🔆 Favorites	Name	Date modified	Туре	Size		
Desktop Downloads Recent places Libraries Documents Music	cmanpr-7.3.9.69-arab-x64.gxz	10/11/2016 9:23 AM 10/11/2016 9:23 AM	GXZ File GXZ File	16,403 KB 16,142 KB		
📄 Pictures 層 Videos 🐏 Computer						
File n.	ame:			<b>~</b> [	Package file(*.gxz) Open Cancel	<ul> <li>▲</li> <li>▲</li> </ul>

#### 3.3.8 Select the engine with x64

<b>e</b>		Open				x
ⓒ ङ ↑ 🕌 → PreRequisites → cmanpr-9.69-arab → cmanpr-9.69-arab → windows 🗸 🖒 Search windows					Q,	
Organize 👻 New fold	er				•	
🔆 Favorites	Name	Date modified	Туре	Size		
E Desktop	cmanpr-7.3.9.69-arab-x64.gxz	10/11/2016 9:23 AM	GXZ File	16,403 KB		
🚺 Downloads 📃 Recent places	cmanpr-7.3.9.69-arab-x86.gxz	10/11/2016 9:23 AM	GXZ File	16,142 KB		
<ul> <li>⇒ Libraries</li> <li>i Documents</li> <li>J Music</li> <li>i Pictures</li> <li>i Videos</li> </ul>						
]툦 Computer						
🗣 Network						
File	name: cmanpr-7.3.9.69-arab-x64.gxz			✓ Package f Oper	ile(*.gxz) Canc	✓



# 3.3.9 The engine name should appear on the left as displayed

🖉 Engine Manager for 64-bit engines 📃 🗖 🗙					
Engine(s) directory:					
	Browse				
Engine(s) package:					
C: \Users \Administrator \Desktop \PreRequisites	cmanpr-9.69-arab\cmanpr-9.69 Browse				
Found engines:	Installed engines:				
cmanpr-7.3.9.69-arab	cmanpr-7.2.7.108 : general cmanpr-7.3.9.74 : latin_general				
	Engine type				
	• ANPR CACCR CUIC				
	Default engine: Change				
	cmanpr-7.2.7.108:general				
Install engines	Uninstall engines				
Finding enginesOK					



3 3 10	Select the engine from the list on the left and hit "Install Engines"	"
3.3.10	belett the engine norm the list on the left and the mistal Engines	

🝘 Engine Manager for 64-bit engines 📃 🗖 🗙					
Engine(s) directory:					
	Browse				
Engine(s) package:					
C: \Users \Administrator \Desktop \PreRequisites	cmanpr-9.69-arab\cmanpr-9.69 Browse				
Found engines:	Installed engines:				
cmanpr-7.3.9.69-arab	cmanpr-7.2.7.108 : general cmanpr-7.3.9.74 : latin_general				
	Engine type				
	• ANPR C ACCR C UIC				
	Default engine: Change				
	cmanpr-7.2.7.108:general				
Install engines	Uninstall engines				
Finding enginesOK					



3.3.11 After completing successfully, the screen should be like this with the engine name in the "Default Engine"

Engine	e Manager for 64-bit e	engines 📃 🗕	
Engine(s) directory:			
			Browse
Engine(s) package:			
C: \Users \Administrator \Desktop	\PreRequisites\cmanpr-9.69-a	rab\cmanpr-9.69	Browse
Found engines:	Installed engi	ines:	
cmanpr-7.3.9.69-arab	cmanpr-7.2. cmanpr-7.3. cmanpr-7.3.	7.108 : general 9.69 : arab 9.74 : latin_general	
	Engine type		
	ANPR	C ACCR	O UIC
	Default engin	e:	Change
1	cmanpr-7.3	.9.69:arab	
Install engines		Uninstall engines	
Removing the generated script f Installing the selected engine(s). Creating setup script fileOK	ileOK OK		<ul><li></li><li></li></ul>



3.3.12 Next plugin the ARH Dongle in the server in order to make sure it is activated and the engine is running correctly. After plugging in, type "ANPR Demo for Images(x64)" in the start menu and open, the following window should open and display the rectangle on the plate with the result below and the added engine name should be displayed in the title of the window. If this is not the case, please refer to Carmen Installation manual or contact support before proceeding.





# **4 CONTACT INFORMATION**

For further information concerning any clarifications you might need, email us on

Su	n	no	rt	ര	ve	ert	ес	com	
Ju		μυ		~	v			COILI	

Info@veertec.com

You can always contact us using the below information:

Lebanon Headquarters 5th floor, Gema Center, Dbayeh Highway, Beirut, Lebanon Dbayeh-Lebanon Tel: (+961) 3 670 089 Tel: (+961) 4 541 140 Support

Client Service