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# **CHAPTER 1 – Installation of the Operating System**

**Metrici LPR** is a software solution for the recognition of license plates mounted on vehicles, licensed and labelled in accordance with existing standards in each country.

In order to run, it requires a computer equipped with Linux 64 bit operating system. Next, we will describe the recommended installation procedure, using the CentOS 7 distribution.

The installation DVD image can be downloaded at: http://support.metrici.ro/operating\_systems/CentOS-7.0-1406-x86\_64-DVD.iso

After booting, choose the option: Install CentOS 7.





<b>*</b>			CENTOS 7 INSTALLATIO
CentOS	What langu	WELCOME TO	CENTOS 7.
	English	English	English (United States)
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	العربية	Arabic	English (Australia) English (Canada)
	অসমায়া Asturianu	Assamese Asturian	English (Denmark) English (Ireland)
	Беларуская Български	Belarusian Bulgarian	English (New Zealand) English (Nigeria)
	বাংলা Bosanski	Bengali Bospian	English (Hong Kong SAR China) English (Philippines)
	Català	Catalan	English (Singapore) English (South Africa)
	Ceština Cymraeg	Czech Welsh	English (Zambia) English (Zimbabwe)
	Dansk	Danish	English (Botswana)
	Type here to search.		Ø

Then select the language (e.g. English) and the type of keyboard used (i.e. us).

Before starting the actual installation, change the default settings by pressing the appropriate keys, in sequence.





Return to the summary screen, by clicking **Done**, located on the upper left.



## After clicking **SOFTWARE SELECTION**, select the **GNOME Desktop** option.

	CENTOS 7 INSTALLAT
se Environment	Add-Ons for Selected Environment
Minimal Install Basic functionality.	Backup Client Client tools for connecting to a backup server and doing backups.
Infrastructure Server Server for operating network infrastructure services.	GNOME Applications A set of commonly used GNOME Applications.
File and Print Server File, print, and storage server for enterprises.	Internet Applications Email, chat, and video conferencing software
Basic Web Server Server for serving static and dynamic internet content.	Legacy X Window System Compatibility
Virtualization Host Minimal virtualization host.	Compatibility programs for migration from or working with legacy X Window System environments.
Server with GUI Server for operating network infrastructure services, with a GUI.	Office Suite and Productivity A full-purpose office suite, and other productivity tools.
GNOME Desktop GNOME is a highly intuitive and user friendly desktop environment.	Remote Desktop Clients
KDE Plasma Workspaces The KDE Plasma Workspaces, a highly-configurable graphical user interface which includes a pagel decktop, system icons and decktop	<ul> <li>Smart Card Support</li> <li>Support for using smart card authentication.</li> </ul>
widgets, and many powerful KDE applications.	Compatibility Libraries Compatibility libraries for applications built on previous versions of CentOS Linux.
Development and Creative Workstation Workstation for software, hardware, graphics, or content development.	Development Tools A basic development environment.

After clicking the **INSTALLATION DESTINATION**, select the local disk where you want to install the software and the partitioning type thereof (e.g. **Automatically configure partitioning**)



Done	E CE	
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Select the device(s) you'd like to install to. They will be l Local Standard Disks	eft untouched until you click on the main menu's "Begin Install	ation" button.
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ATA VBOX HARDDISK		
sda / 969.23 KB free		
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Add a disk		
Other Storage Options	Disks left unselec	ted here will not be touched
Partitioning		
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I would like to make additional space available.		
Encrypt my data. You'll set a passphrase later.		
	<b>N</b>	
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Finally	r, the installat	ion summary screen shoul	ld look simi	lar to the screenshot below	/.
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	SYSTEM				
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Start the installation by clicking **Begin installation**.

While the installation is running, you can configure the root password (administrator) and you can add a system user account.





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After clicking **CREATE USER**, add a new user account. Do not forget to check the option **Make this user administrator**.

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After completing the installation, reboot the system by clicking **Reboot**.



# **CHAPTER 2** - Configuration after First Boot

After the first boot of the computer, the system will ask you to read the license of the operating system. Perform this operation by clicking **LICENSE INFORMATION**.



If you agree with the terms mentioned, confirm by checking I accept the license agreement.









After reboot, login by using the password defined during installation.



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# **CHAPTER 3 - Download and Install Metrici LPR**

To download the Metrici LPR installation kit, open Mozilla Firefox browser by clicking on the **Applications** menu in the top left.



Then access the address <u>http://support.metrici.ro</u>. In the section **Software / Metrici.LPR-installer**, you will find the latest version of the installation kit, containing the suffix **el7.run**. Download it and save it on your hard drive.



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#### Check the option Run executable text files when they are opened in the Behavior tab.



Then launch the installation kit (double click). When required, enter the system password of the user you are logged in with.



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Wait for the installation to complete, and then reboot the system.



#### **CHAPTER 4 - First Steps**

The **Metrici LPR** installation software modifies the default configuration of the Fedora desktop, by improving the user experience of users unfamiliar with Linux. The automatic logging is thus enabled and a few useful shortcuts are created on the desktop.

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The **Metrici LPR Web interface** allows the access to the reporting interface where you can view the recognised license plates.

**Metrici LPR** allows the configuration of locations, within which you can define detection cameras. It is necessary to define at least one location and one camera. To do this, click on the shortcut **Metrici LPR web interface**. You can log in by using the following information: e-mail: <u>metrici@metrici.ro</u> and password: **metriciadmin**. Please change this password after login.



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Then select the Administration / Locations & Cameras menus and click on Add new location.







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The system will generate an authentication key, which will be used to automatically authenticate the communication between the detection application and the reporting interface.





You can check one or more locations by holding down the Ctrl key while clicking on several options from the **Locations** list.

Using the application **Metrici Control Panel**, you can manage the licenses and detection applications.

ID	Name	App type	CPU cores	Exec type	Output type	Status	Load
C	LPR1	Metrici LPR FreeF	1	Background with watch	Metrici	Started	4 %
1	LPR2	Metrici LPR FreeF	1	Background with watch	Metrici	Started	10 %
2	LPR3	Metrici LPR FreeF	1	Background with watch	Metrici	Started	9 %
3	LPR4	Metrici LPR FreeF	1	Background with watch	Metrici	Started	9 %

Add a new detection application in the system, by clicking **Add**.

In adding the application, configure in the field **CPU cores** the number of processing cores you want to allocate to each camera. The more processing power you allocate, the better the detection will be, and the application will be able to analyze in real time a greater number of image frames coming from the camera. For example, an Intel i5 processor is equipped with 4 CPU cores and if you want to connect a 3 megapixel camera and another 1 megapixel camera to the same system, it is recommended to allocate three CPU cores to the first one and 1 CPU core to the second one.



ID	Name	App type	CPU cores	Exec type	Output type	Status Load
		Me	etrici Control Panel	v1.1 - Add		
		ID:				
		Name:	Camera 1			
		Application type:	Metrici LPR Fre	eFlow 0		
		CPU cores:	1			
		Execution type:	Foreground	0		
		Output type:	Metrici	0		
				Cancel Sa	ave	

**Execution type** configures how the application will run:

1. **Background**: The application will run without displaying detection results on the screen, but only in the reporting interface. This mode saves processing power.

2. **Background with watchdog**: Same as Background, but the application will autostart on reboot or in other situations in which the computer is turned off.

3. **Foreground**: The detection application is visible. This mode is used mainly in mounting the system in order to check the camera position, settings, etc.

3. **Foreground with watchdog**: Same as Foreground, but the application will autostart on reboot or in other situations in which the computer is turned off.

	Background
	Background with watchdog
Execution type:	Foreground
	Foreground with watchdog



After adding the detection application, select it from the list and click **Start** to configure the operating parameters, such as data for connection to the camera, checking the country syntax for the recognized license plates, etc.

Metri	ici LPR v3.8 - Settings	
Input stream		
Input stream type: Input stream IP address: Input stream user / pass:	Undefined Port: 80	•
Detection window		
Live view		
Reporting and check action		
Plates		
Car tracking		
Barriers		
Countries		
	<u>Cancel</u> <u>Save</u>	2

After clicking on **Settings**, enter the connection data to the IP camera in the **Input stream**. Also, fill in the authentication data of the camera previously defined in the web interface, in the fields **Reporting / Check action - authkey / id**.

Setting the optimal values of the **Plate min. Plate length** and **Plate max. length** fields is made after positioning the camera and choosing the appropriate resolution depending on the results. You can start with **Plate min. length = 120** and **Plate max. length = 1000**.



### **CHAPTER 5 - Important Recommendations**

To have a good rate of detection and recognition of license plates:

- Place the IP camera, choose a resolution of the video stream and a frame rate, so that each license number may appear in at least two consecutive frames; its width must be at least 200 pixels, and the axis inclination to the horizontal shall not exceed +/- 20 degrees.
- Use the Infrared spectrum lighting both during daytime and night time, combined with the use of a low-pass optical filter for the video camera. Contact the Metrici LPR distributors for obtaining it, depending on the model of the camera used.
- Use an IR illuminated reflector at an angle similar to the angle of the camera;
- Do not place the IR reflector at a distance of more than 30 cm from the IP camera; generally, the optimal position is just below the camera.
- Set the camera so that the shutter time be consistent with the relative travelling speed of vehicles towards the camera (e.g. 1/1000 s for speeds of up to 60 ~ 70 km / h).
- Choose a camera with high sensitivity sensor and set it to night mode for daytime operation as well.
- To minimize the image noise caused by reducing the exposure time, lower the gain of the camera. Do not use camera software corrections (e.g. noise reduction) for this purpose.
- Disable or lower: WDR, noise reduction, edge enhancement.
- Perform the adjustment of the camera / IR reflector ensemble, both during daytime and night time. Do the same on sunny weather and make sure that there are no irregular shadows in the area of detection, resulting from access stepladders, footbridges, poles, etc. Try to estimate the most unfavourable position of the sun and position the camera so as not to be blinded by it.
- Change the scene so that the movement of vehicles is consistent with the performance of the camera (e.g. installation of speed bumps, barriers, etc.).
- Use one or more computers to detect and recognize, properly dimensioned in terms of CPU / RAM, according to the required number of cameras, their resolutions and frame rate. Metrici LPR works in parallel on multiple threads and the scaling depends on the number of threads available in the system.
- Reduce the processing power needs by defining the detection windows only in areas of interest.



- Do not use the same system for LPR or as NVR, file server, or other uses.
- Read the user manual.
- Contact the Metrici support engineers or of the authorized distributors for advice on the right equipment for difficult installations.



### **CHAPTER 6 - Activating the Software License**

Metrici LPR is protected by a system that prevents unauthorized copying of software. The initial installation is "Demo", with the following limitations: it can be used for 30 days only, a maximum of 2 cameras can be connected, and the first character of the number detected is replaced with "\_"

After purchasing a license from one of the authorized distributors or integrators, you will receive a certificate of authenticity including the "product key" required for the activation.



**Step 1.** Click on "Request license" in **Metrici Control Panel** and enter your product key. A file containing the data required for activation will be generated and saved on the desktop.

<	
Add Edit	Start Stop
Request license	Update license

Step two. Open the web browser and access <a href="http://support.metrici.ro/activate/">http://support.metrici.ro/activate/</a>

Fill in the e-mail address field and attach the file generated in step 1.

The support team will receive the activation request and will send you at the indicated e-mail address a file required for activation. Copy the file to your detection computer.



**Step 3.** By using again the **Metrici Control Panel**, click on **Update License** and load the file received in step 2.



If the activation is successful, **Metrici Control Panel** will restart and then it will display the new number of licenses available in the system and their type.