

CARRIDA Plate-i Dome Quickstart Guide

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Introduction

This manual provides a quick introduction on how to install and setup the CARRIDA Plate-i Dome Camera. More detailed information can be found on the CARRIDA Website www.carrida-technologies.com/doc. See also the link at the end of this document.

Note: When powering up the camera, it can take up to 3 minutes until all settings are loaded.

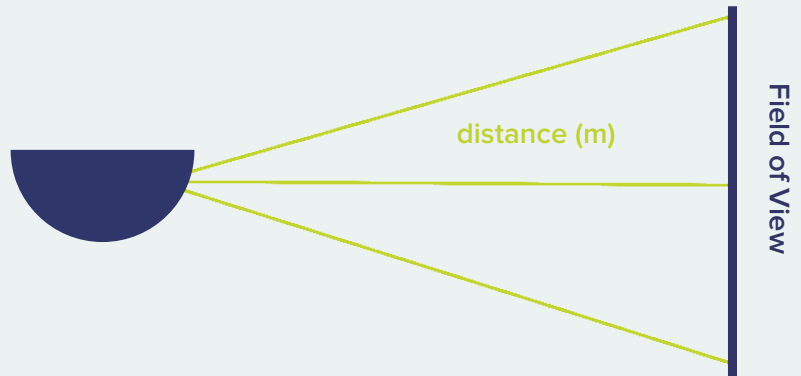
Mounting the camera

The camera should be mounted at least 1 meter from the closest position where the vehicle is expected. A distance <1 m may work, but you will have to adjust camera settings in this case.

The Plate-i Dome lens is chosen so that the resulting horizontal field of view is suitable for most ALPR applications. The typical operating range of the Plate-i camera is 1,5-16 m, the following table shows the horizontal field of view for different distances to the camera.

D(m)	FOV, min. zoom	FOV, max. zoom
1 m	0,97	
1,5 m	1,45	
2 m	1,94	
2,5 m	2,24	
3 m	2,92	0,92
4 m	3,88	1,23
5 m	4,86	1,54
6 m	5,82	1,84
7 m		2,15
8 m		2,46
9 m		2,76
10 m		3,07
11 m		3,38
12 m		3,68
13 m		3,99
14 m		4,3
15 m		4,61
16 m		4,91

Field of View



It is important to consider both the mounting height and viewing angle of the camera. If the camera is placed too high, or the horizontal/vertical angle is too big, the recognition accuracy may be reduced.

We recommend to consider the following guidelines:



The camera should be mounted at least 1.5 meter from the closest position of a license plate.



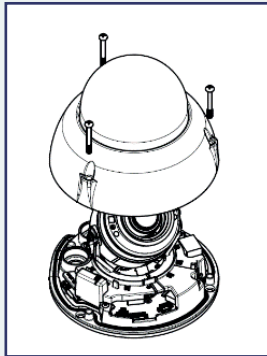
The viewing angle from the camera to the license plate should not exceed 40° in any direction.



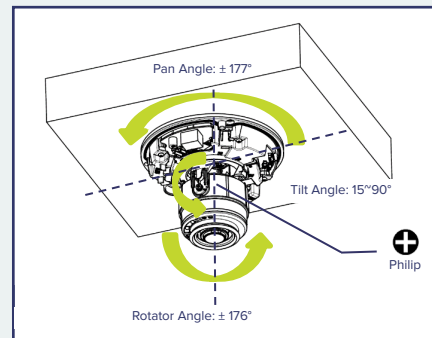
Plates can be rotated with an angle as much as 20° clockwise or counterclockwise.

Adjusting the camera angle

1. Use a Philips screwdriver to remove the Top cover of the camera, and lift the cover to open it.



2. Loosen the Philips head screws, adjust the camera angle, then retighten the screws. Finally, attach the top cover.



Connecting the camera

To power up the camera, connect it to a PoE (Power over Ethernet) port on a local switch or router. Alternatively you can power the camera with a 12V DC power supply using the attached cable with the cinch connector.

The camera is configured to use DHCP as factory default. Your local network needs to provide a DHCP server so that the camera will be assigned an IP address. After powering up the camera, the simplest way to detect it in your local network is to start the CARRIDA Camera Client Tool for Windows. You can download it from here:

<https://carrida-technologies.com/download/tools/setup-cameraclient-1.0.1.zip>

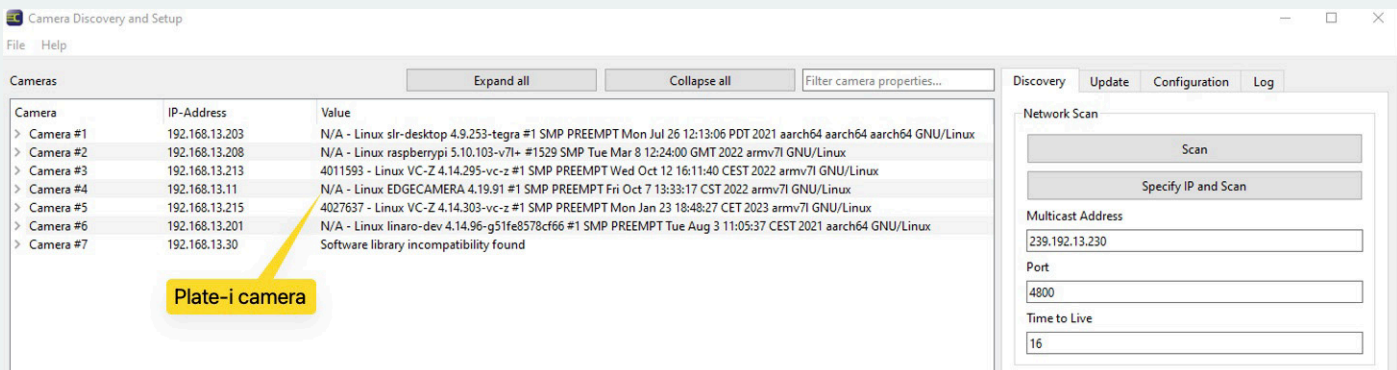


Plate-i will show up in the list of detected cameras as 'Linux EDGECAMERA', see the example shown in the screenshot above.

If you are running Linux, or you do not want to download and use the Camera Client Tool, you can scan your local network directly. For example on Mac OS, you can use the free LanScan software, or you can use the arp command line tool on Mac OS, Linux, and Windows, like `arp -a`, to detect all devices in your network.

Setting up the camera

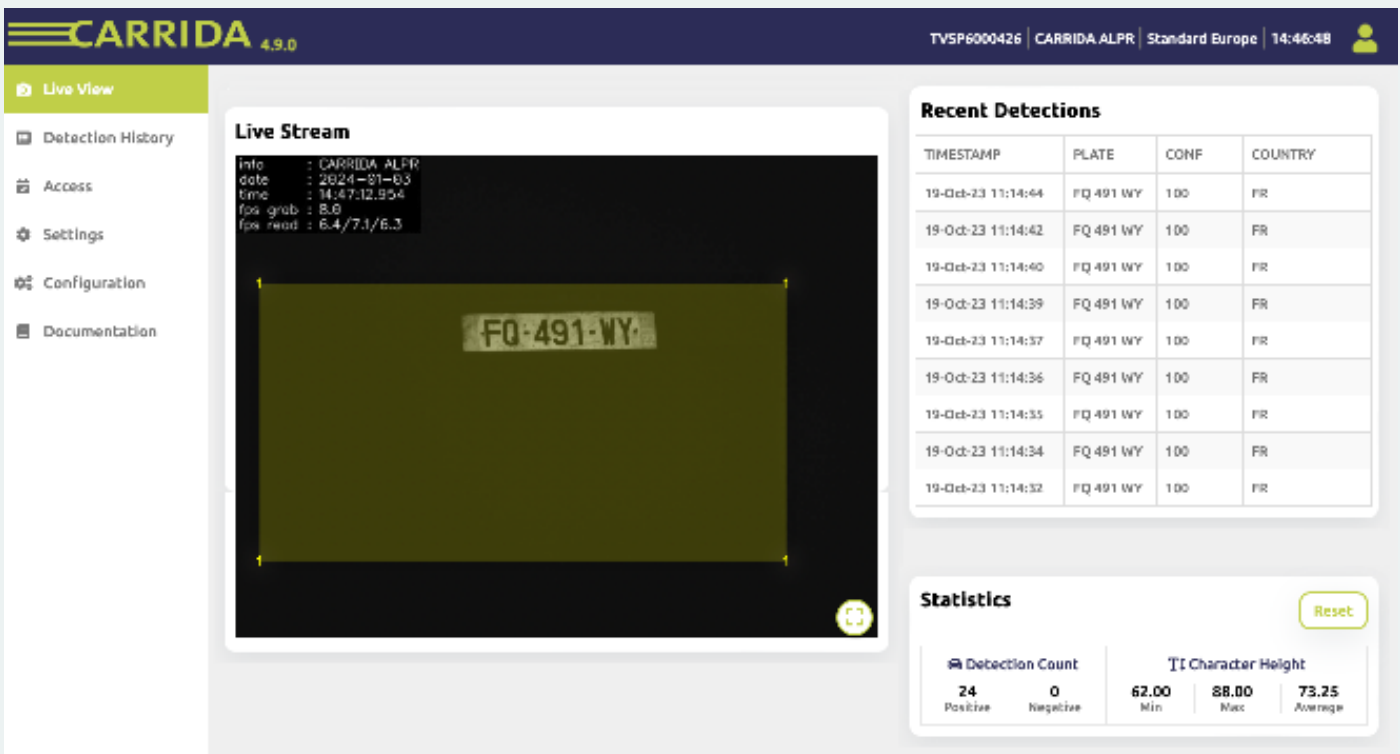
Once you have detected the camera's IP address, you can begin to set it up properly. Open a browser and connect to the camera by typing its IP address. Preferably use administrator credentials the first time you log into the camera. The access credentials will be sent to you with your camera. If you need the credentials again, please contact the CARRIDA team at info@carrida-technologies.com.



Note

We strongly recommend to change the admin password in the first session!

The default factory reset IP address of the camera is **192.168.0.11**.



The screenshot displays the CARRIDA 4.9.0 web interface. The top navigation bar includes the CARRIDA logo, version 4.9.0, and system information: TVSP6000426, CARRIDA ALPR, Standard Europe, and the time 14:46:48. The left sidebar contains a menu with options: Live View, Detection History, Access, Settings, Configuration, and Documentation. The main content area is divided into three sections:

- Live Stream:** Shows a live video feed of a license plate reading "FQ-491-WY". Above the video, technical data is displayed:


```
info : CARRIDA ALPR
date : 2024-07-03
time : 14:47:12.954
fov : 8.0
fov : 6.4/7.1/6.3
```
- Recent Detections:** A table listing recent license plate detections.

TIMESTAMP	PLATE	CONF	COUNTRY
19-Oct-23 11:14:44	FQ 491 WY	100	FR
19-Oct-23 11:14:42	FQ 491 WY	100	FR
19-Oct-23 11:14:40	FQ 491 WY	100	FR
19-Oct-23 11:14:39	FQ 491 WY	100	FR
19-Oct-23 11:14:37	FQ 491 WY	100	FR
19-Oct-23 11:14:36	FQ 491 WY	100	FR
19-Oct-23 11:14:35	FQ 491 WY	100	FR
19-Oct-23 11:14:34	FQ 491 WY	100	FR
19-Oct-23 11:14:32	FQ 491 WY	100	FR
- Statistics:** A summary of detection counts and character heights.

Detection Count		TI Character Height		
24 Positive	0 Negative	62.00 Min	88.00 Max	73.25 Average

Find out more

The Plate-i documentation describes in detail how to setup the camera.

<https://www.carrida-technologies.com/docu/plate-i>

CARRIDA Camera Client Tool for Windows

<https://carrida-technologies.com/download/tools/setup-cameraclient-1.0.1.zip>