CARRIDA Plate-i Dome Quickstart Guide

Contact: support@carrida-technologies.com

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.

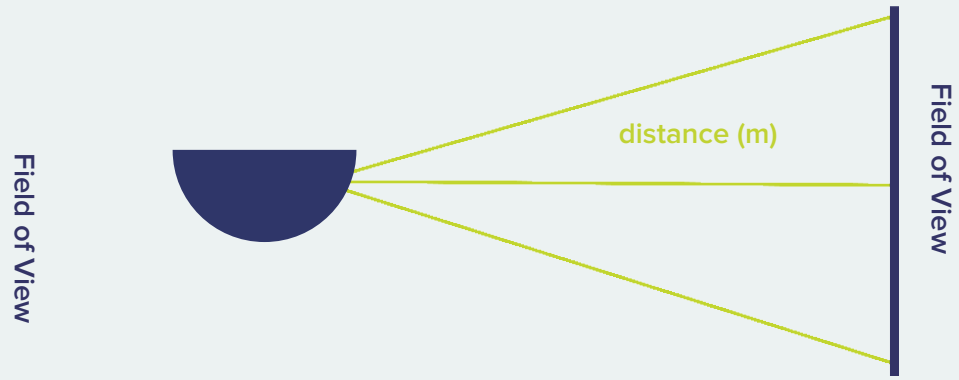
Note: When powering up the camera, it can take up to 3 minutes until all settings are loaded.

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



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:

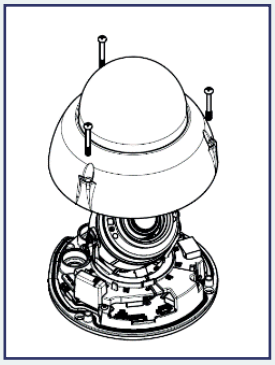
The camera should be mounted at least 1.5 meter from the closest position of a license plate.

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

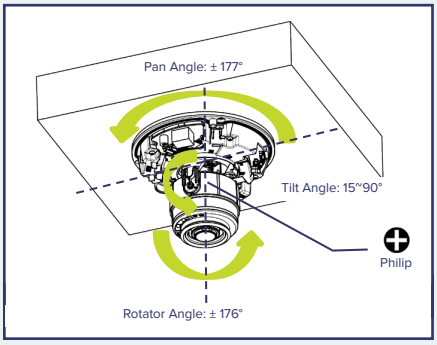
Plates can be rotated with an angle as much as 20° clockwise or counterclockwise.

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

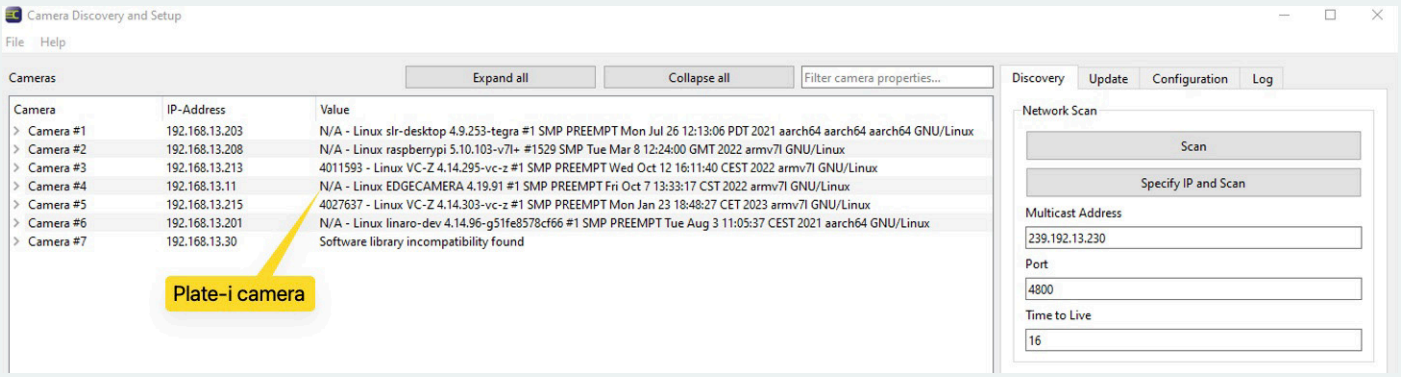


Plate-i will show up in the list of detected cameras as ‚Linux EDGECAMERA', see the example shown in the screenshot above.

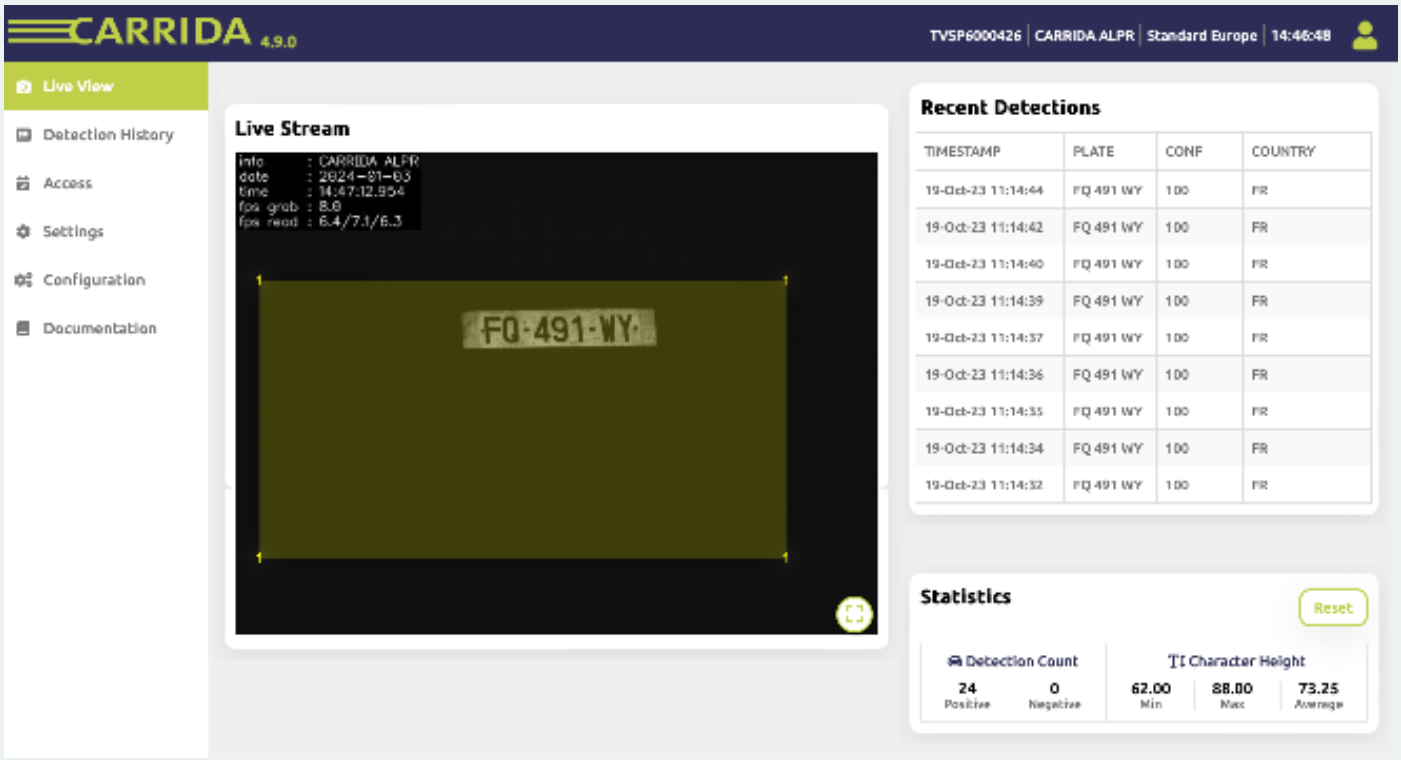
If you are running Linux, or you do not want to download and use the Camera Client Tool, you can scan your local network directly. For example on Mac OS, you can use the free LanScan software, or you can use the arp command line tool on Mac OS, Linux, and Windows, like arp -a, to detect all devices in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



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