



1.Gen 6 2MP BrR camera Quick Start Guide

2. Version 1.0, September 2022

Thank you for choosing this Valeo product. Follow these instructions for plug-and-play operation. In case of technical difficulties or questions, or if you require information on other Valeo products, do not hesitate to us at cda.valeo-mobilitykits.mailbox@valeo.com. Please read the manual included on the USB pen drive.

1. Check kit content:

- Gen6 2MP BrR camera sensor



- BroadR-Reach to Ethernet converter



- USB pen drive



- 2 cables:

- Camera connector + sensor power + BroadR-Reach pins
- Converter power



- User manual

1.

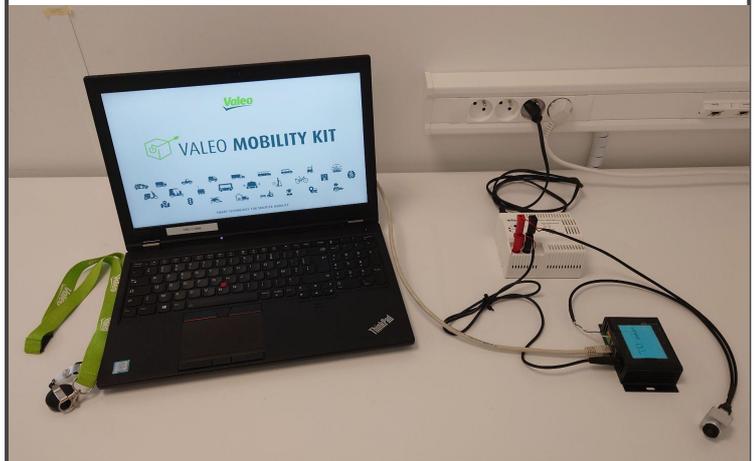
2. Provide your periphery:

1.

Voltage-stabilized 12 V DC source

Decoder PC running Linux Ubuntu 18.04, 20.4

Cat5+ RJ45 LAN cable connected to the PC.



3. Connect BroadR-Reach and USB:

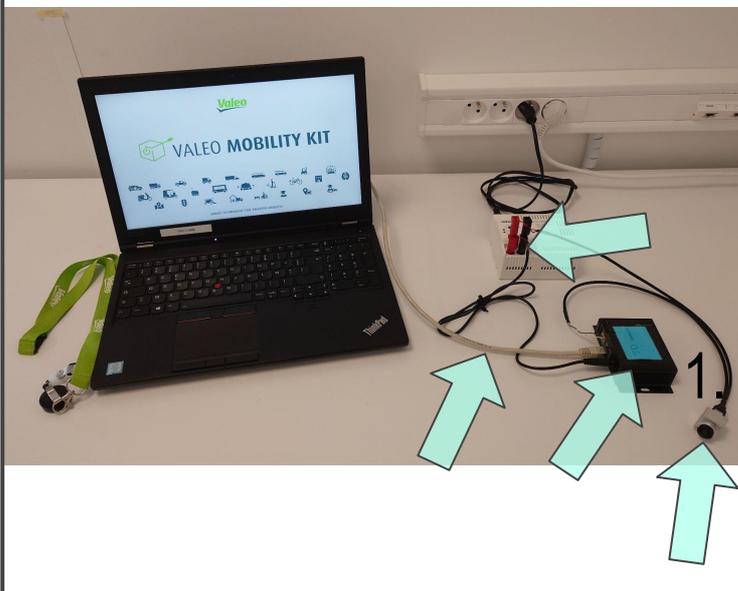
All plugs are mechanically encoded.

Power source in off state.

Converter power: 12 V DC, Red banana = positive polarity.

Connect RJ45 on converter to your PC.

Connect USB pen drive to PC.

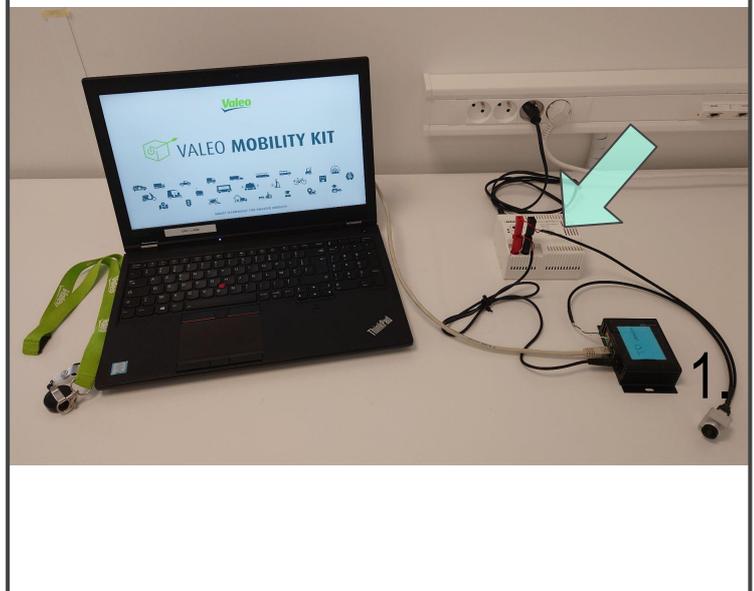


4. Connect sensor power and wake up to DC source:

Red banana connect to positive polarity.

Make sure that your DC source is rated to deliver up to 3 A during sensor startup, at 12 V stabilized.

All connections done, switch power on.

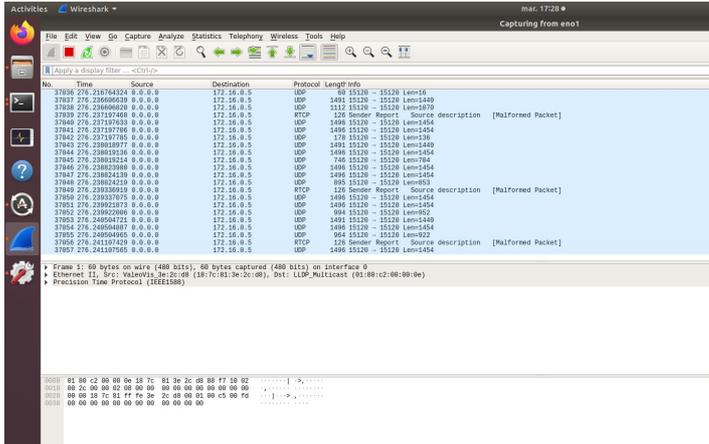


Continue on backside



5. Start tool viewer:

The following is an exemplary Wireshark screenshot, showing nominal traffic from the camera:



Configure the ethernet adapter with this IP address and netmask :

- **172.16.0.5**
- **255.255.255.0**



IP address

Netmask

1.

6. Start the camera:

In order to stream the camera, you can choose one of following options:

+ Using the configuration tool, you can start the camera by following these steps:

Open the configuration tool.

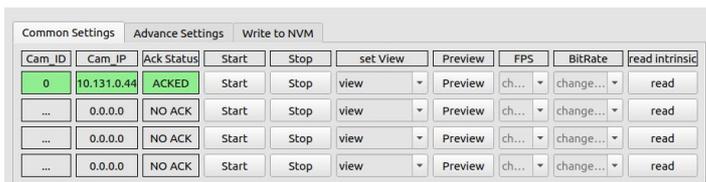
Click on drop box "set View", select a view

Click on button "start" to put the camera in streaming mode

Click on button "preview" to see the quick view of the camera.

+ run python example scripts

run: `python3 test_app_br.py`



7. Final state:

Read the entire manual. The viewer provides an image of 1620 x 1280 at 30 fps.



8. Get back to us:

Check www.valeo.com/en/valeo-mobility-kit/ for updates and new kits.

We are happy to receive your feedback and support your technical questions.

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VALEO MOBILITY KIT

GEN 2

SCALA®

3D LASER SCANNER

2nd LASER SCANNER for the automotive volume production

Valeo SCALA 3D Laser Scanner (Gen 2) kit is a plug and play kit developed to allow easy interfacing with the Valeo SCALA 2 LIDAR sensor to obtain the point cloud output of the sensor.

Valeo's SCALA 2 is the new generation of Valeo automotive grade laser scanner. This new generation provides increased vertical field of view and angular resolution. The SCALA 2 is a key enabler for ADAS and automated driving applications.

The Mobility Kit is a plug-and-play system, including all necessary hardware to connect to an ethernet port on a personal computer, and decoder software.

SMART TECHNOLOGY FOR SMARTER MOBILITY

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VALEO MOBILITY KIT

NEAR FIELD LIDAR

Valeo Near Field LIDAR System is a plug and play kit developed to allow users to easily interface with the Valeo near field LIDAR A4 prototype sensor to obtain the depth-intensity-image and the point cloud of the sensor over an Ethernet interface.

- Plug & Play Kit
- All necessary components included
- High resolution Image
- Example Software and SDK included

SMART TECHNOLOGY FOR SMARTER MOBILITY

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VALEO MOBILITY KIT

1MP FISHEYE ETH CAMERA

Valeo cam 1MP Fisheye eth for NMPs is a perception solution developed to allow customers to use Valeo cameras with customer's favourite development platform.

Valeo's cam 1MP Fisheye eth is based on mass production camera with proven robustness and quality results. This solution stands out from competition thanks to its high dynamic range and ease of use.

This kit contains all the necessary guidance to easily integrate the camera(s) in most customer platforms.

SMART TECHNOLOGY FOR SMARTER MOBILITY

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VALEO MOBILITY KIT

ULTRASONIC SENSOR SYSTEM

Valeo Ultrasonic Sensor System is a plug and play kit developed to allow users to easily interface with Valeo Ultrasonic Sensors.

Valeo Ultrasonic sensors are widely-used automotive grade ultrasonic sensors providing SDI (Sensor Distance Interface) and freespace output over CAN. The system will provide the direct distance detected by each sensor and freespace.

This kit contains twelve ultrasonic sensors, one ECU, sensor holders and one harness, as well as the necessary documents for easy integration and interface. This kit can be easily integrated into a variety of platforms and for various applications, including but not limited to ADAS, robotaxis, autonomous shuttles and delivery robots.

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Start on other side