Case study

CamScripter RPi: Free App to Connect Devices of your choice with an AXIS Camera via Raspberry Pi

What is CamScripter RPi?

CamScripter RPi is **an app specifically designed** to run on **a Raspberry Pi**. It works identically to the original version of the CamScripter App and runs micro apps. **Data** from the apps can be embedded into your video stream via CamOverlay App installed on your **AXIS camera**.

CamScripter RPi is **a free app** that allows you to pull data from devices with **a USB / Serial interface** and display them within an AXIS camera image.

Using the app is **simple**: plug the **device of your choice** (thermometer, flowmeter, scale, hygrometer, etc.) into **a Raspberry Pi**, and a script running in the CamScripter RPi will handle the serial communication between the **connected peripherals** and your **AXIS camera**.

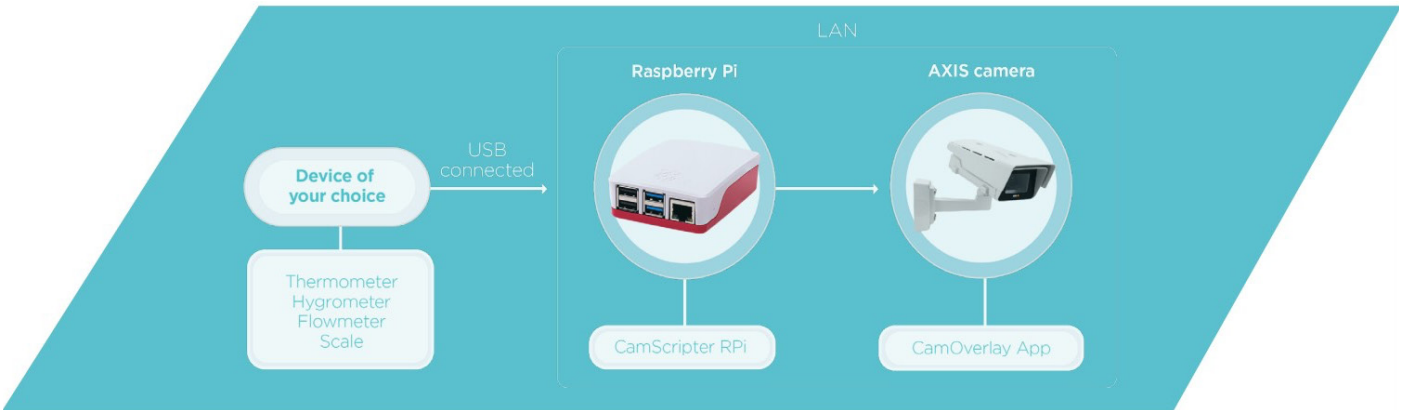
With **our solution**, you can utilize **various micro apps** with your AXIS camera and **create dynamic graphic overlays with CamOverlay App**.

List of Supplies

Hardware:	AXIS camera
	Raspberry Pi 4
	Raspberry Pi 4 case
	Micro SD card
Software:	CamOverlay App
	CamScripter RPi
	Raspbian OS
	npm 7.23.0

How does CamScripter RPi work?

This edition of the CamScripter App runs on a Raspberry Pi running Raspbian OS and **npm package management** onboard. A micro app uploaded into **CamScripter RPi** processes inputs from devices connected to the **Raspberry Pi** and **sends data to your AXIS camera**.



Want to know more?

See our GitHub page for more information or read the following Installation guide on next page.

camstreamer.com/resources/camsripter-rpi

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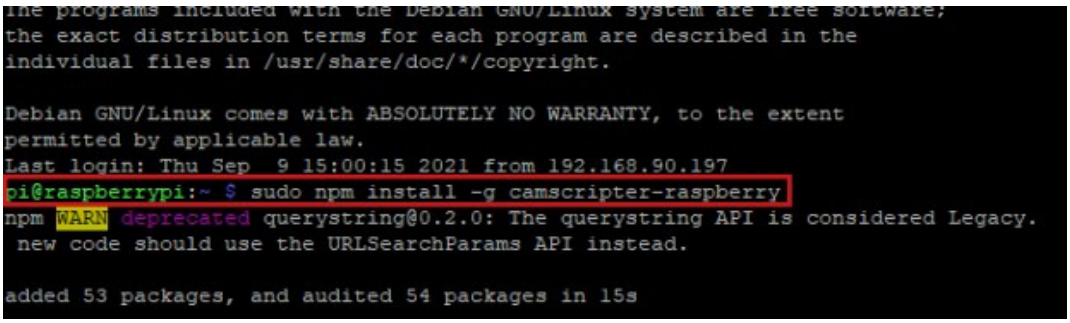
Installation guide

Install an operating system on your **Raspberry Pi** using an SD card and the following official guide. While **CamScripter RPi** works with various Raspberry Pi versions, we recommend the latest model: Raspberry Pi 4.

CamScripter RPi is placed as a package in the npm repository. You can check the **compatibility** of **CamScripter micro apps** with CamScripter RPi in the manifest file of each script on our GitHub page.

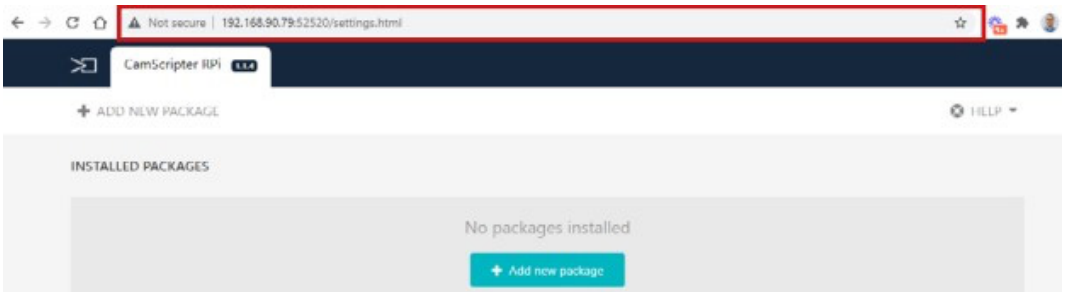
Access **Raspberry Pi** from your computer using e.g. the Putty client. Use this command:
ssh pi@Your_IP_Address

Run the **following command** to install CamScripter App:
sudo npm install -g camscripter-raspberry



Setting up CamScripter RPi

Open your internet browser and type in the IP address of your Raspberry Pi to open CamScripter App UI. The IP address must be in the following format:
http://localhost:52520/settings.html



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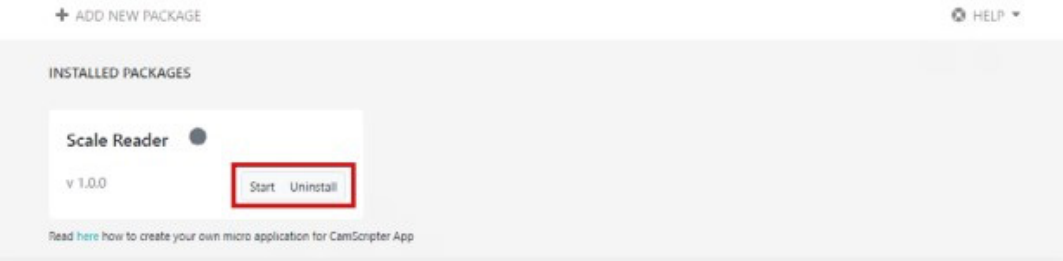
Upload the package of **the micro application** you wish to use with **the CamScripter App**.

Click "**https://camstreamer.zendesk.com/hc/article_attachments/4407705745809/csrpi5.jpg**" to launch the micro application.



Configure your micro application by pushing the **gear button**.

Uninstallation guide

To remove CamScripter RPi from system services please run this command:
camscripter-unregister

```
npm notice
npm notice New minor version of npm available! 7.21.0 -> 7.22.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v7.22.0
npm notice Run npm install -g npm@7.22.0 to update!
npm notice
pi@raspberrypi:~ $ camscripter-unregister
Removed /etc/systemd/system/multi-user.target.wants/camscripter.service.
```

To remove CamScripter RPi from your device please type in:
sudo npm uninstall -g camscripter-raspberry

```
@raspberrypi:~ $ sudo npm install -g camscripter-raspberry
m WARN deprecated querystring@0.2.0: The querystring API is considered Legacy.
ew code should use the URLSearchParams API instead.

ded 53 packages, and audited 54 packages in 15s

packages are looking for funding
run `npm fund` for details

und 0 vulnerabilities
m notice
m notice New minor version of npm available! 7.21.0 -> 7.22.0
m notice Changelog: https://github.com/npm/cli/releases/tag/v7.22.0
m notice Run npm install -g npm@7.22.0 to update!
m notice
@raspberrypi:~ $ camscripter-unregister
moved /etc/systemd/system/multi-user.target.wants/camscripter.service.
mScripter service is removed
@raspberrypi:~ $ sudo npm uninstall -g camscripter-raspberry
```