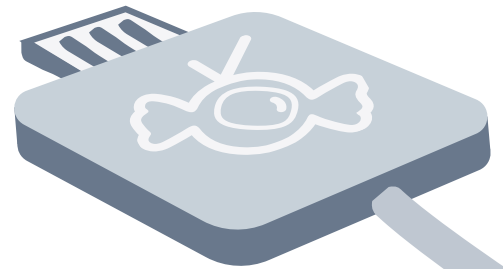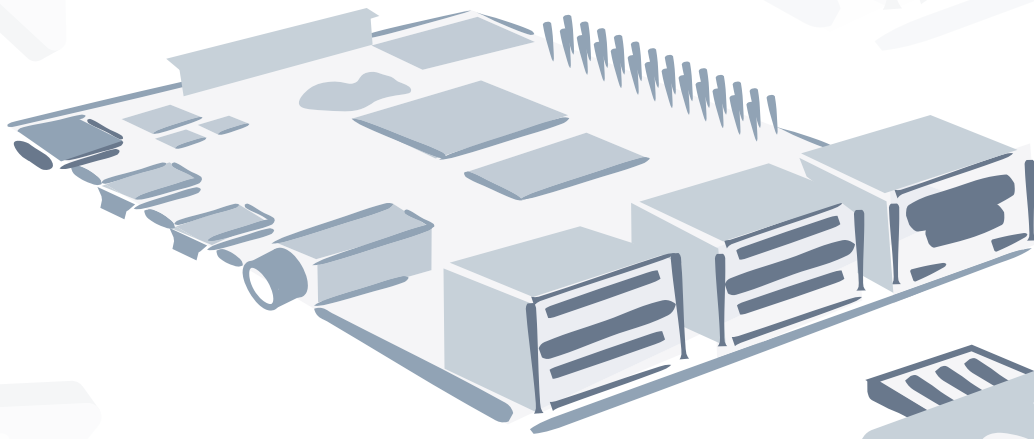# Portable device setup

Raspberry Pi + SoloCandy by Suitest

Portable device setup
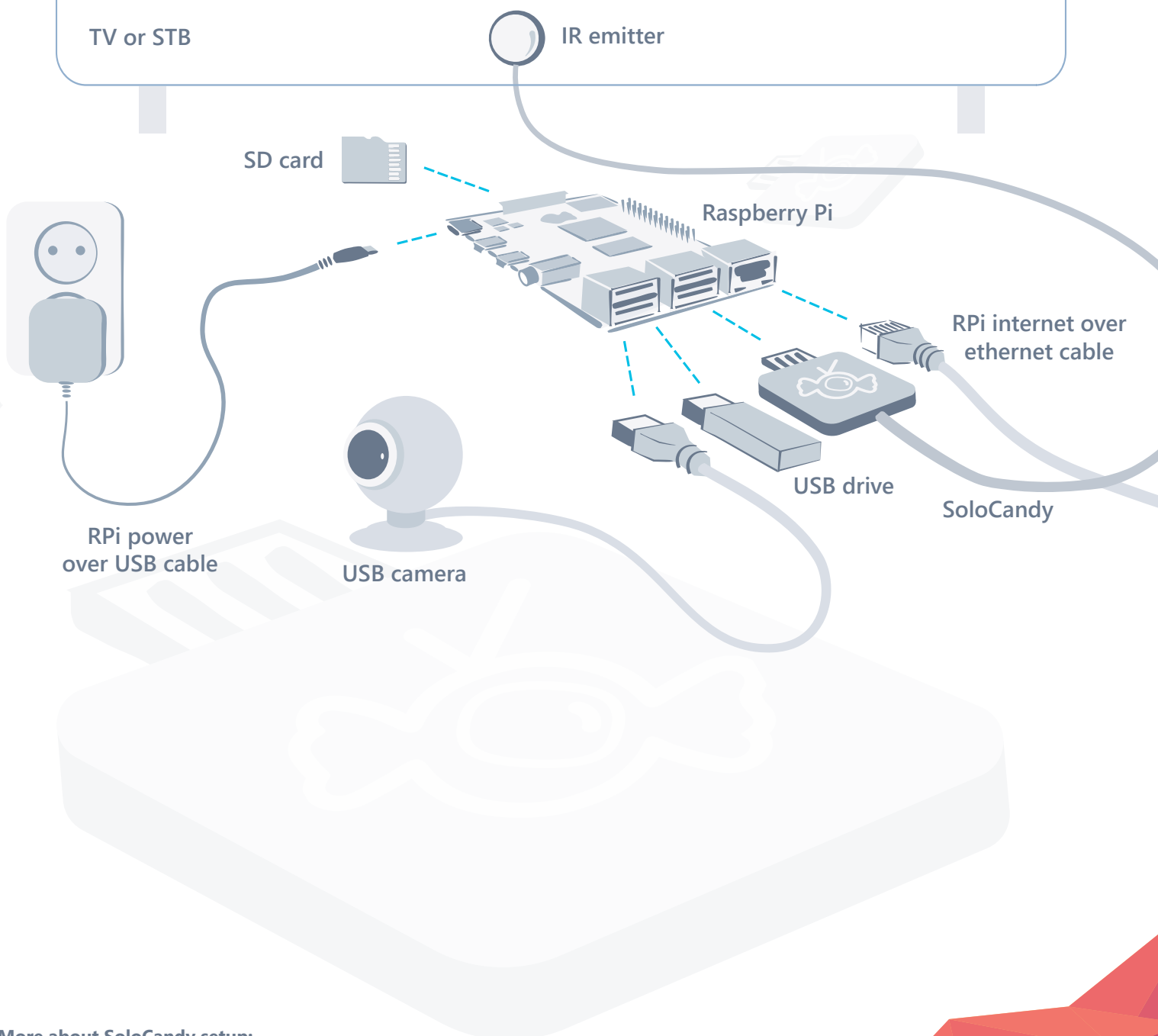## Raspberry Pi + SoloCandy

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The year 2020 has brought new challenges to QA automation for Smart TVs and other connected devices. People have had to take their devices home during the times of lockdown or extensive home office, making it harder than ever to build a reliable and fully automated device lab.

This guide will explain how you can build a distributed, portable, yet still automated and accessible device lab. All you need is a Raspberry Pi, a USB camera, and depending on your target device, a SoloCandy. The resulting setup can travel together with the device it's controlling whenever the need arises. Just make sure to connect the RPi to a power source and the internet upon moving the device and you're good to go - no matter if you're running automated tests or just wish to share the device with your colleagues for live testing.

Connection scheme
Raspberry Pi + SoloCandy

TV or STB

IR emitter

SD card

Raspberry Pi

RPi internet over
ethernet cable

USB drive

SoloCandy

RPi power
over USB cable

USB camera

More about SoloCandy setup:
https://suite.st/docs/devices/solocandy/

More about SuitestDrive on RPi:
https://suite.st/docs/devices/suitestdrive-on-candybox/

Prepare Raspberry Pi device

You need to set up the Raspberry Pi device and register it with Suitest before you can start using it to control your devices.

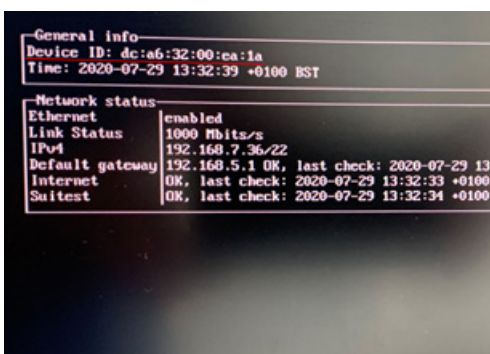**1.** Get a Raspberry Pi device. Suitest supports RPi device versions **2, 3B, 3B+** and **4B.**

2. Download our **OS image** and **install it** on the **micro SD card (minimum 4GB).**
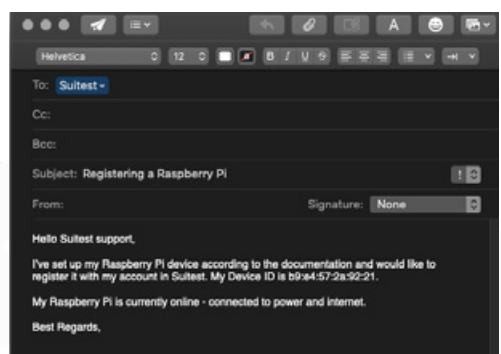

3. Connect a **monitor** to the RPi over **HDMI cable**.

4. Insert **micro SD card** into RPi, connect **network** and **power** cables.
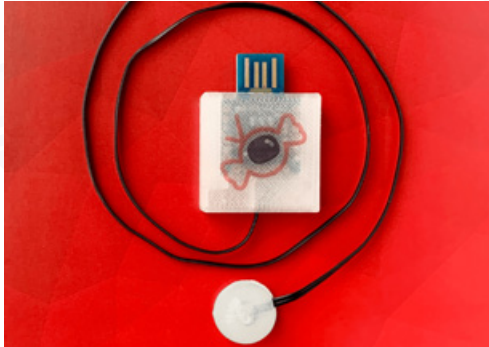

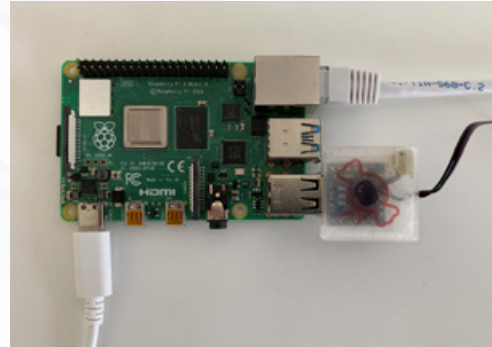**5.** Find and copy the **Device ID** from the General info tab.

6. Write an email to **support@suite.st** and include your **RPi Device ID.**

Controlling devices over infrared

You can use our SoloCandy to control infrared-based devices with your Raspberry Pi.

1. Write an email to **sales@suite.st** to order a **SoloCandy** from us.
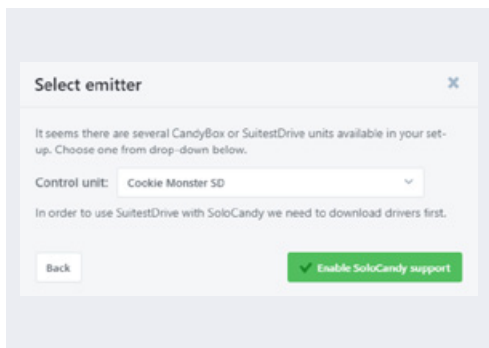

2. Connect one or more **SoloCandies** to your **Raspberry Pi** device.

3. You can use a **USB extension cable** if necessary.

4. Connect **IR emitter** on the SoloCandy to the device's **infrared receiver.**

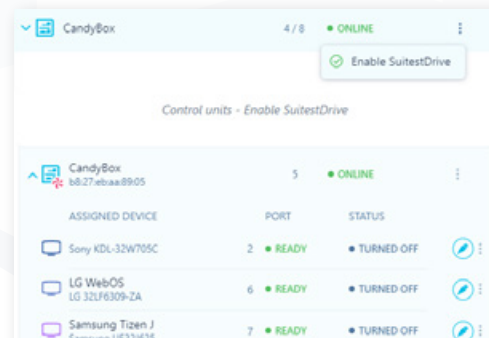**5.** Configure the device with Suitest using our **Device Wizard.**

6. Optionally, connect a **USB camera** to one of the USB ports on your RPi.

Controlling Android TV, Roku and Xbox One devices

You can use your RPi setup to control **Android TV, Roku** and **Xbox One**
devices without any additional hardware.

1. Insert a **USB flash drive** to one of the USB ports on your RPi. See the requirements for the USB drive in **our docs.**

2. Enable SuitestDrive on RPi in your **ControlUnits page** by following **these instructions.**

3. Optionally, connect a **USB camera** to one of the USB ports on your PRi.