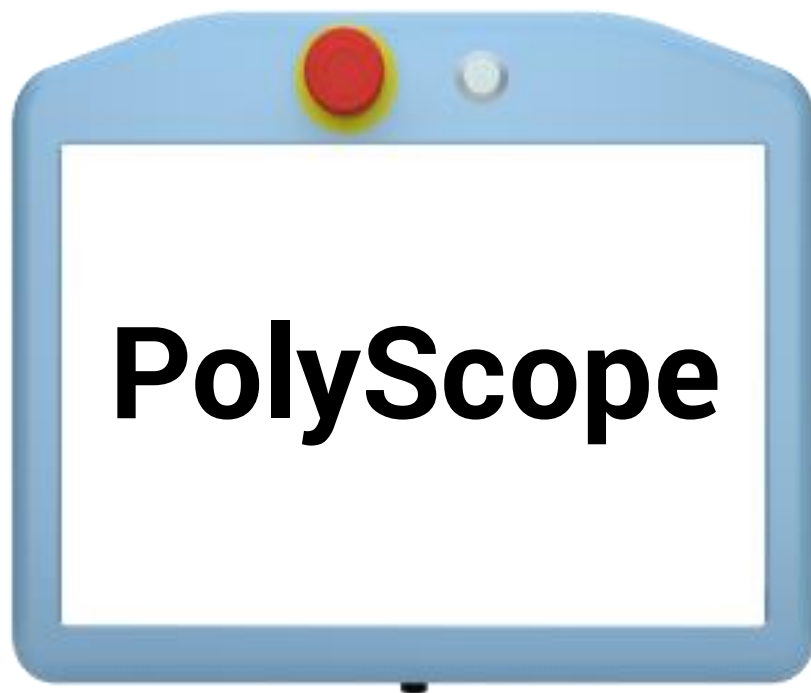




UNIVERSAL ROBOTS



Install new image on storage device CB2, CB3 and e-Series

Original instructions (EN)

Version: 0.0.2

Robot:

UR3, UR5 and UR10

UR3e, UR5e, UR10e

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1. General information

1.1 Purpose

The purpose of these articles is to help Universal Robots (UR) users and integrators to safely perform service-related operations and troubleshooting.

Universal Robots industrial robots are designed using high quality components to ensure a long lifetime. However, improper use of a robot or robot parts can potentially cause failures. If, for example, the robot is overloaded, dropped during relocation, damaged by collision, or any other improper usage, the warranty will be void.

Universal Robots recommends the user does not attempt repair, adjustment, or make other interventions in the mechanical or electrical systems of the robot without first consulting an UR certified service engineer. Any unauthorized intervention voids the warranty. Service-related operations and troubleshooting should only be performed by qualified personnel.

Before performing service-related operations, stop the robot program and disconnect the main power to any potentially dangerous tool on the robot or in the surroundings.

In the event of a defect, Universal Robots recommends ordering new parts from the Universal Robot distributor where the robot was originally purchased. Alternatively, parts can be ordered from the nearest distributor, details of which can be obtained from Universal Robots official website at www.universal-robots.com

1.2 Company details

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1.3 Disclaimer

Universal Robots continues to improve reliability and performance of its products, and therefore reserves the right to upgrade the product without prior warning. Universal Robots takes every care that the contents of this manual are precise and correct, but takes no responsibility for any errors or missing information.

2. Files to download

In this first section, we are going to cover where to download the different files and how to install PolyScope on a storage device.

2.1 Program to create a bootable storage device

In this example are we using a program called Rufus, to create our storage device with PolyScope installed. Other programs can be used as well.

Rufus is a fast, small program that helps format and create bootable devices.

Download link for Rufus - <https://rufus.ie/>

Follow instructions on website, on how to install Rufus.

Rufus is a third-party software and not associated with Universal Robots A/S

Universal Robot take no responsibility for this software.

2.2 PolyScope image

To download PolyScope, go to <https://www.universal-robots.com/support/> and under the section download, select your robot type, chose software, robot image software and then select your control box type.

We recommend always to download the latest version of PolyScope.

If you have a CF card chose 2.0 for CB2 and CB3.0 for CB3.

If you have a USB chose 2.1 for CB2.1 and CB3.1 for CB3.

For e-Series SD-card is the only option.

3. Installing PolyScope image

3.1 Cation before proceeding

When installing a fresh image of PolyScope, all data on your storage device will be deleted.

If necessarily make a backup of all wanted data before proceeding. See Service Manuals software section for more information on how backup and upload files.

If the storage device has already been used, it MUST be formatted first.

Note: e-Series SD card is divided into 4 partitions.

CB2/CB3 recommend data to backup:

programs - folder

.urcontrol – folder /enable hidden folders

flightreports folder - if not present just ignore (CB3 only)

.urpass.file - if not present just ignore

.ursafetypass.file - if not present just ignore (CB3 only)

histogram.propeties

log_history.txt

ur-serial

e-Series recommend data to backup:

programs folder

.urcontrol folder /enable hidden folders

flightreports folder - if not present just ignore

.urpass.file - if not present just ignore

.ursafetypass.file - if not present just ignore

histogram.propeties

Log_history.txt

ur-serial

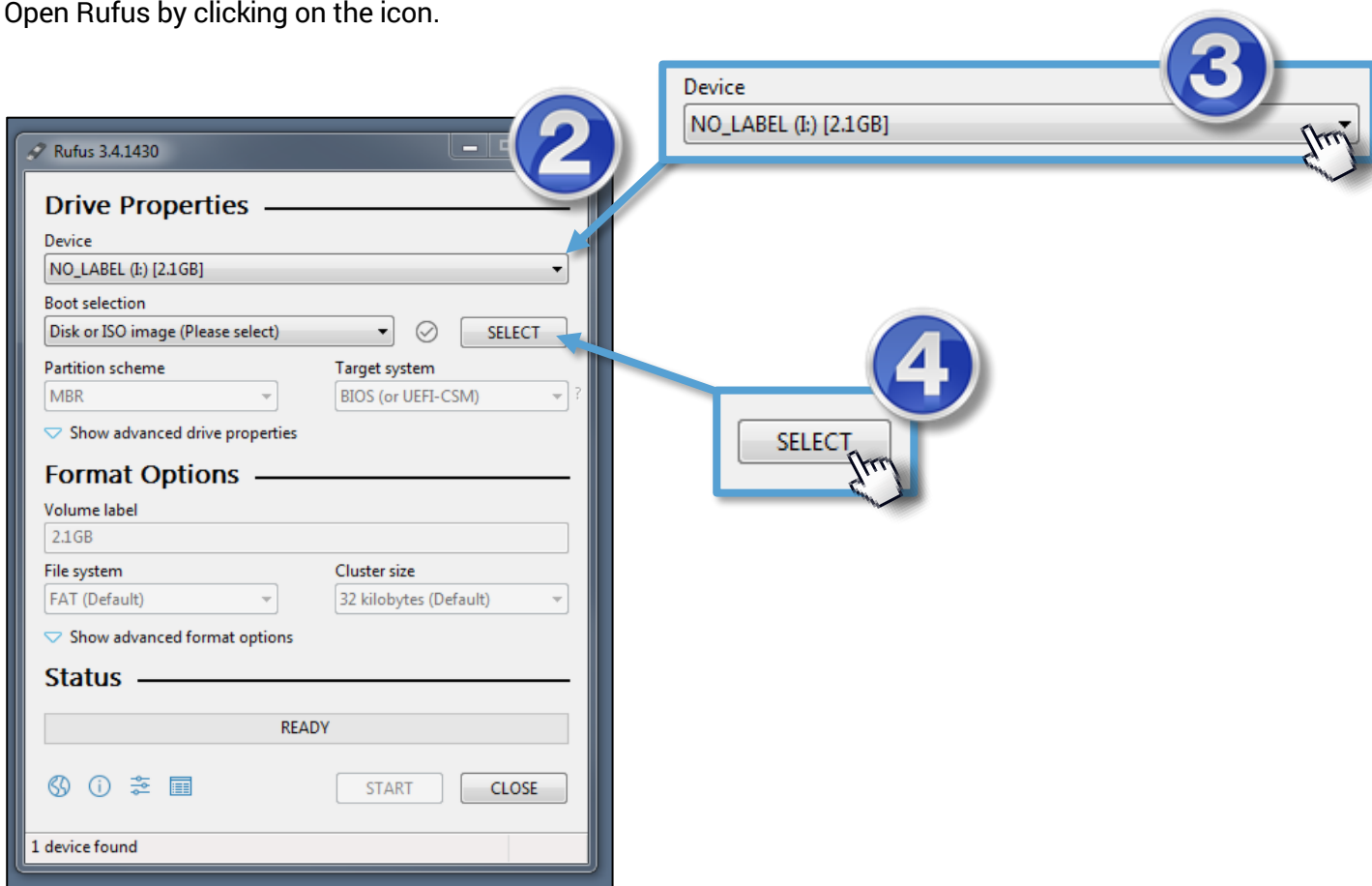
3.2 Installation

First insert your storage device in your computer. If your device already contains a version of PolyScope and you haven't installed a program to access an EXT2/3/4 file system, your computer will recognize that a device has been connected/mounted, but it won't be accessible.

Note that some programs which can be used to access an EXT2/3/4 file system, can conflict with Rufus, if both programs are using the device at the same time.



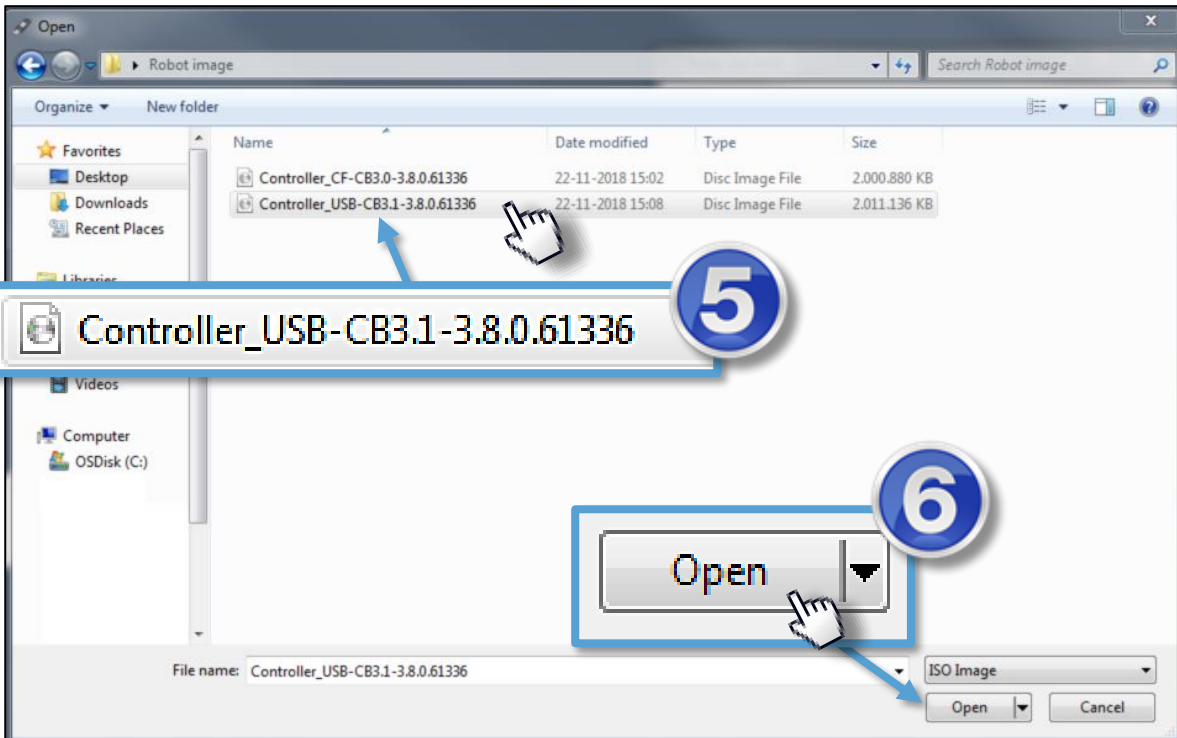
Open Rufus by clicking on the icon.



When Rufus is started up, it should look like the picture above.

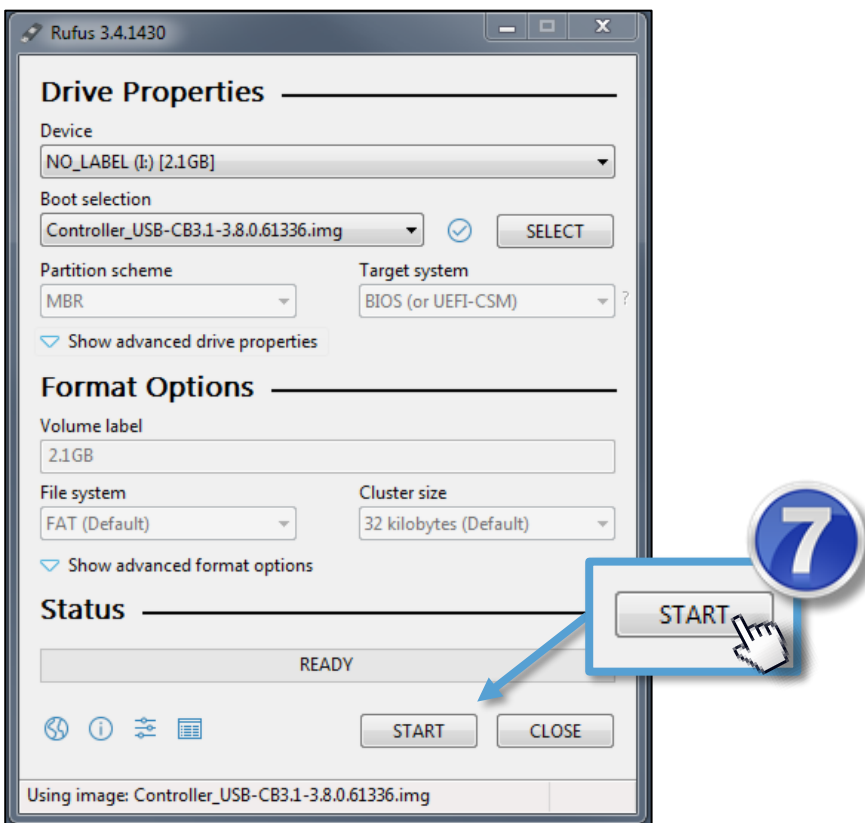
If you look at the first line under device, you can choose which device you want to use. In this example, our device been mounted as drive: I.

After you have chosen your storage device, go to the next section "boot selection" and press on the **SELECT** button to the right.

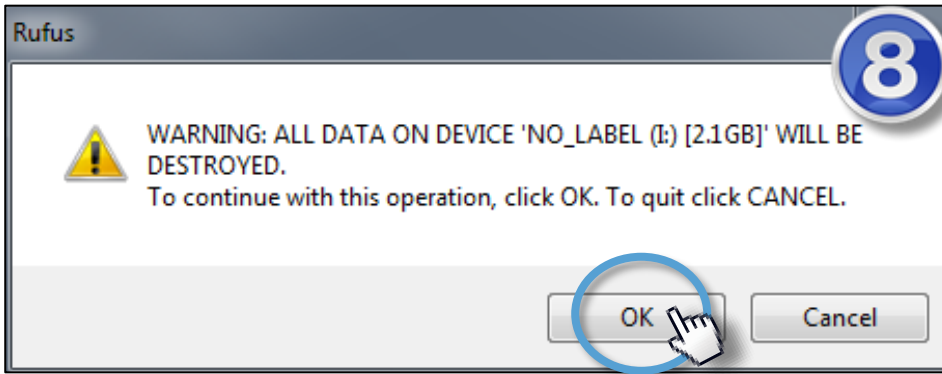


Now locate the folder where you have saved your PolyScope image (that you downloaded before) and open it.

In this example we are using a USB pen and therefor the image is for CB3.1.



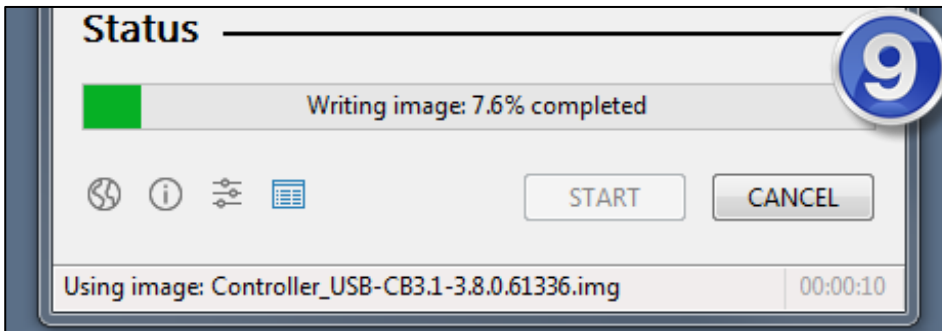
After you have opened the file, press the **START** button in bottom.



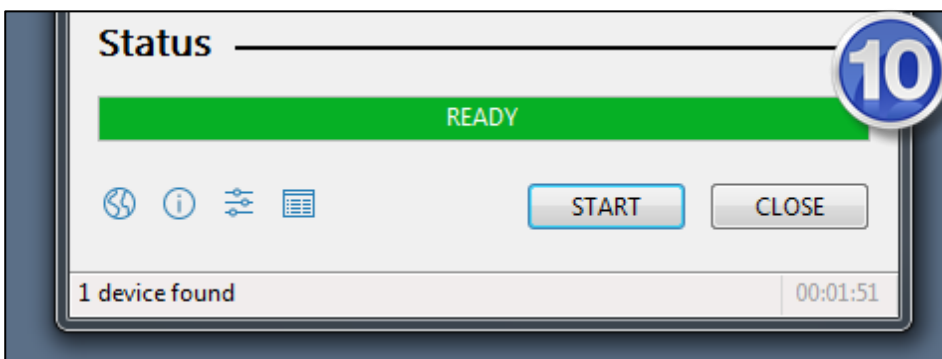
A warning will pop up and ask if you're that you want to proceed. Press **OK**.

Note: e-Series SD card is divided into 4 partitions, you will be warned that all partitions will be deleted, press **OK**.

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Rufus will then start writing the image, to the USB.



When the entire status bar is green and says ready, you can close the program and remove your storage device.

You should now have a fully functional version of PolyScope installed on your storage device.