

# Backup SDCard and restore from saved image

Save the SDCard content to an image file to restore it later. Use Content-only mode and Incremental backup mode to reduce the backup size. This is helpful for systems running on an SDCard like Raspberry Pi.

`#sdcard #backup #restore`

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Last update: April 23, 2021

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## 1. Win32 Disk Imager

Win32 Disk Images is a popular and famous application on Windows to write a raw disk image to a removable device or backup a removable device to a raw image file.

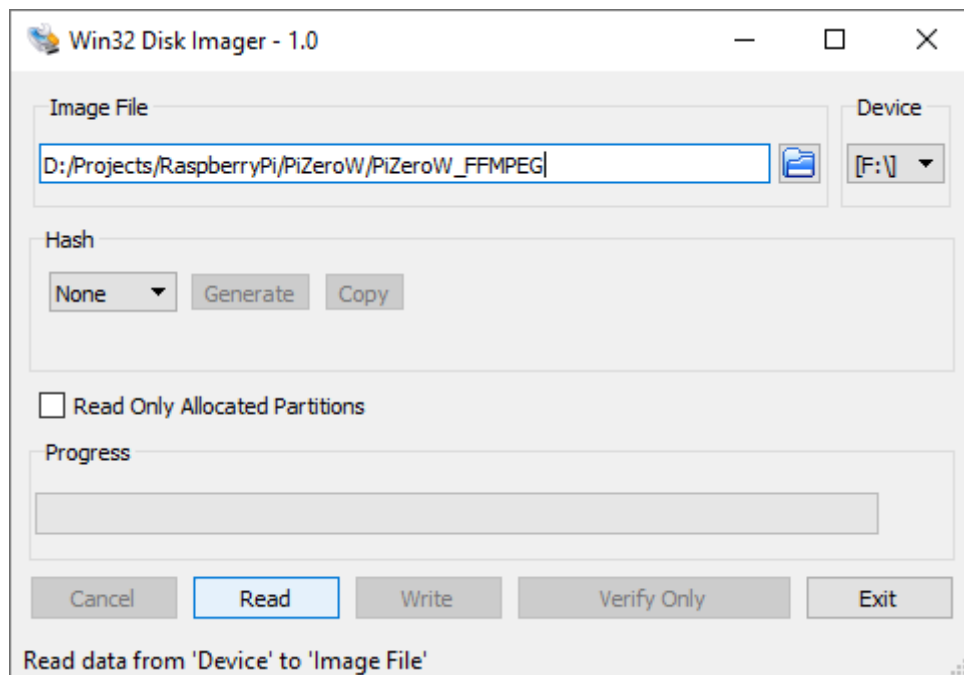
### Raw image mode

Raw image mode means all bits of the device are copied to the image file. Then the size of the backup file is equal to the device total size. This method will take long time to complete, depending on the size of the device.

Download it from [win32diskimager](http://win32diskimager.com) and install it.

### 1.1. Backup

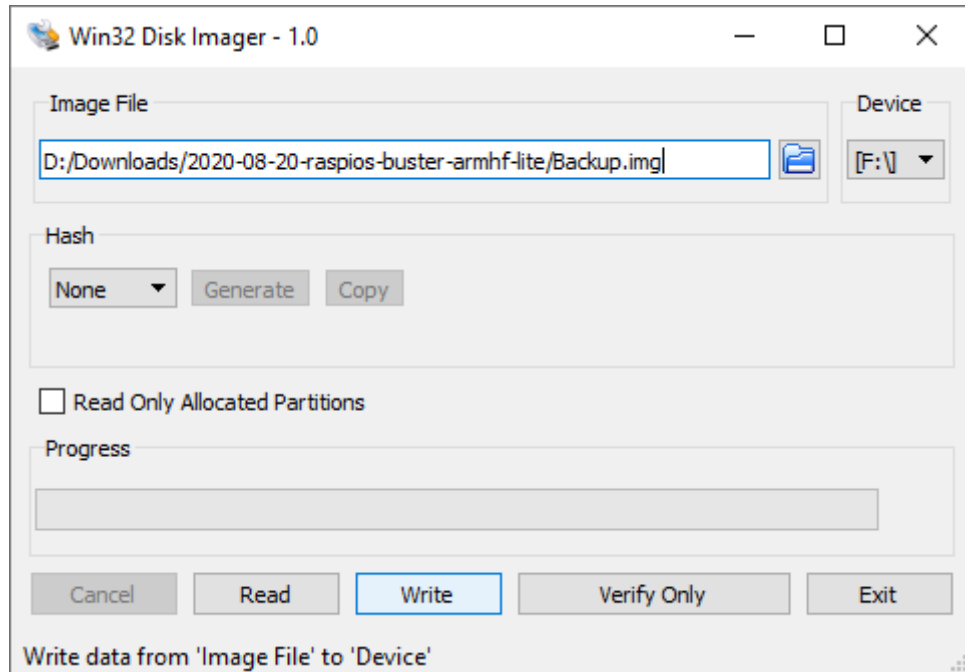
1. Select the **Image File** to save the SDCard content
2. Select the source **Device**
3. Click on **Read**



*Win32 Disk Imager: save device to image*

## 1.2. Restore

1. Select the **Image File** of the SDCard content
2. Select the target **Device**
3. Click on **Write**



*Win32 Disk Imager: restore from image to device*

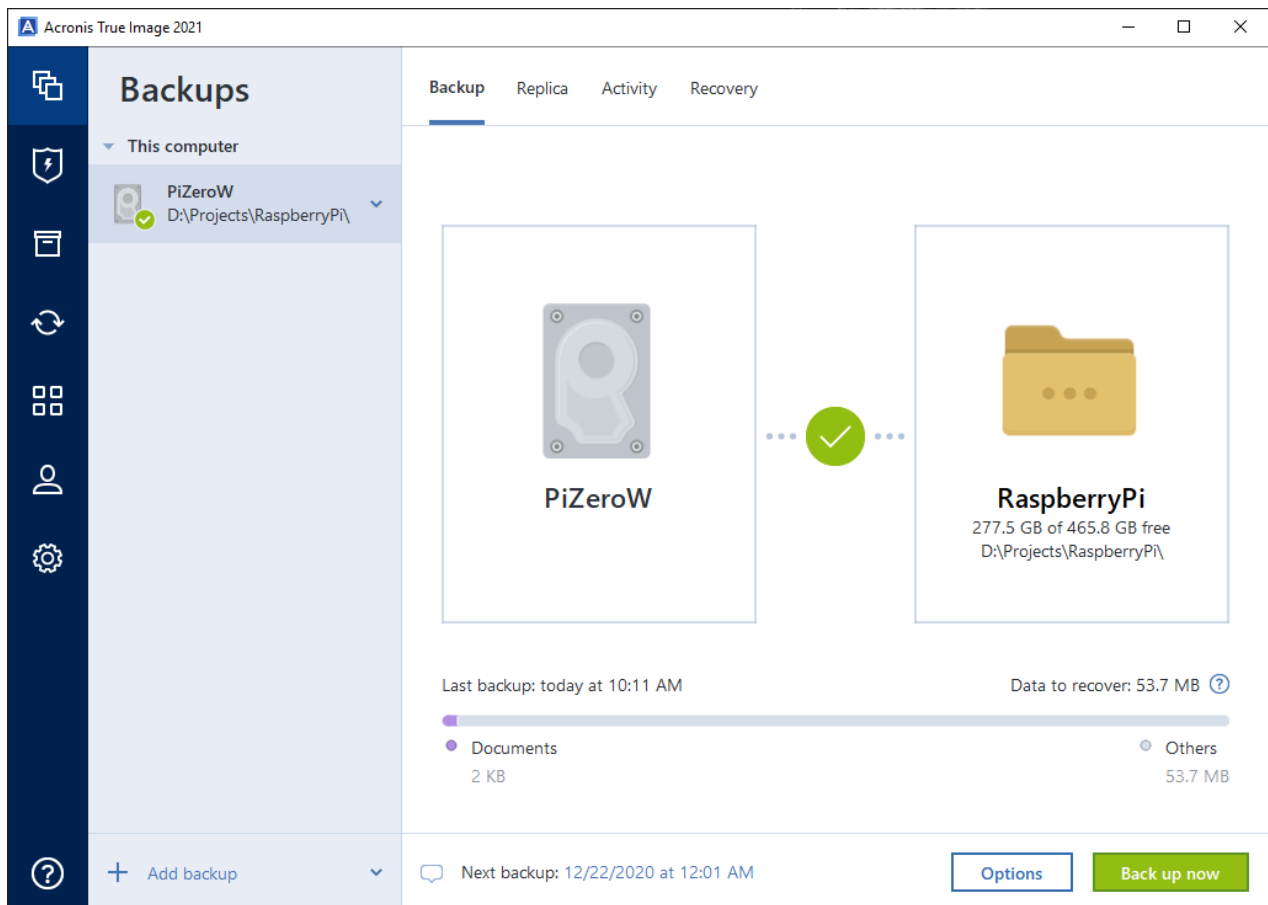
## 2. Acronis True Image

 This application is a commercial product, try it for free at [Acronis](#)

### Quick backup & Incremental mode

Acronis does not backup empty space on the SDCard, it only saves useful data, therefore the backup progress is much faster and the file size is smaller.

It also has *incremental backup mode* which only writes modified data, compared to the previous backup, therefore it can save a lot of disk space.



*Acronis True Image: backup/restore disk*