

## Troubleshooting firewire capture

If you experience Firewire problems, please follow these steps:

### Which firewire stack is installed ?

GNU/Linux recent kernels may be compiled with an old or a new firewire stack. To understand which firewire stack is installed, query the list of loaded modules

```
lsmod | egrep 'firewire|1394'
```

This is the old firewire stack:

```
ohci1394 37040 0
ieee1394 306104 2 sbp2,ohci1394
```

This is the new firewire stack:

```
firewire_sbp2      15152 0
scsi_mod           163832 5 firewire_sbp2,sg,sr_mod,sd_mod,libata
firewire_ohci      23140 0
firewire_core      39492 2 firewire_sbp2,firewire_ohci
crc_itu_t           2288 1 firewire_core
```

### Old firewire stack

Make sure to load modules at boot time:

```
sudo gedit /etc/modules
raw1394
video1394
dv1394
```

Fix udev permissions

```
# ieee1394 devices
KERNEL=="dv1394*", NAME="dv1394/%n"
KERNEL=="video1394*", NAME="video1394/%n"
```

If you still cannot capture from firewire, there may be a bug in udev permission.

Locate the udev configuration file responsible of firewire access.

```
KERNEL=="dv1394*", MODE="0666", NAME="dv1394/%n"  
KERNEL=="video1394*", MODE="0666", NAME="video1394/%n"
```

## New firewire stack

Write a custom udev script and store it in `/etc/udev/rules.d/z95_firewire.rules`:

```
# /etc/udev/rules.d/z95_firewire.rules  
  
# Set GROUP="video" for some IEEE 1394 device types, driven by the new firewire stack.  
# We cannot use the GROUP directive because the significant device type attributes  
# live in child devices. So change the group after the fact with chgrp.  
  
# IIDC devices: industrial cameras and some webcams  
KERNEL=="dv1394*|video1394*|raw1394*|fw[0-9]*", GROUP="video"  
  
# libraw1394 older than v2.0.1 and some special-purpose applications also need  
# access to the local node(s). Alas there is no simple way to tell local nodes apart  
# from remote ones; here is a simple hack.  
  
SUBSYSTEM=="firewire", ATTR{vendor_name}=="Linux Firewire", GROUP="video"  
# Or if your application needs access to all nodes, simply use:  
  
SUBSYSTEM=="firewire", GROUP="video"
```

## Debug and test using dvgrab

Your username should be part of the video group:

```
sudo adduser username-foo video
```

Reboot your system for rules to apply. After reboot, run `dvgrab` in interactive mode:

```
dvgrab -i
```

Type `h` for help.

You should be able to rewind and play your camcorder.

If this is the case, enter `"q"` for quit `dvgrab`. Kdenlive should now be able to acquire video.

**Source URL:** <http://kdenlive.org/user-manual/troubleshooting-and-common-problems/troubleshooting-firewire-capture>