

# Setup a DVB (TDT) usb stick on Ubuntu GNU/Linux

How to set up a DVB-USB Tvisto or AverTV Volar M (for Mac) on Ubuntu 14.04 64bit (Gnu/Linux)

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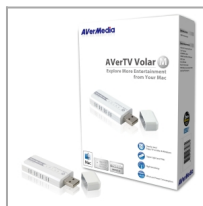
## 1.1. Set up a DVB-T (TDT) USB stick with Totem in Ubuntu 14.04

We have an two old usb DVB-T (TDT) devices, which have these chipsets:



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- TVisto: **15a4:9016 Afatech Technologies, Inc. AF9015 DVB-T USB2.0 stick**



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- AverTV Volar M (Mac): 07ca:815a AVerMedia Technologies, Inc.  
<http://www.avermedia.eu/avertv/uk/product/ProductDetail.aspx?Id=438><sup>[1]</sup>



```
xavi@coprinus:~$ lsusb
Bus 002 Device 004: ID 15a4:9016 Afatech Technologies, Inc. AF9015 DVB-T USB2.0
stick
Bus 002 Device 009: ID 07ca:815a AVerMedia Technologies, Inc.
(...)
xavi@coprinus:~$
```

## 1.1.1. Install some system packages

Install (if not already) these packages:



```
sudo apt-get install linux-firmware-nonfree totem-plugins-dvb-daemon kaffeine
```

## 1.1.2. Add also just in case the proprietary driver

See:

- <http://palosaari.fi/linux/>
  - <http://palosaari.fi/linux/v4l-dvb/firmware/af9015/5.24.0.0/dvb-usb-af9015.fw>
- <http://linuxclues.blogspot.com.es/2012/02/install-configure-avertv-dvb-digi-volar.html>

Output of lsusb in a terminal:

- `15a4:9016 Afatech Technologies, Inc. AF9015 DVB-T USB2.0 stick`

Get firmware and place it in the right location:

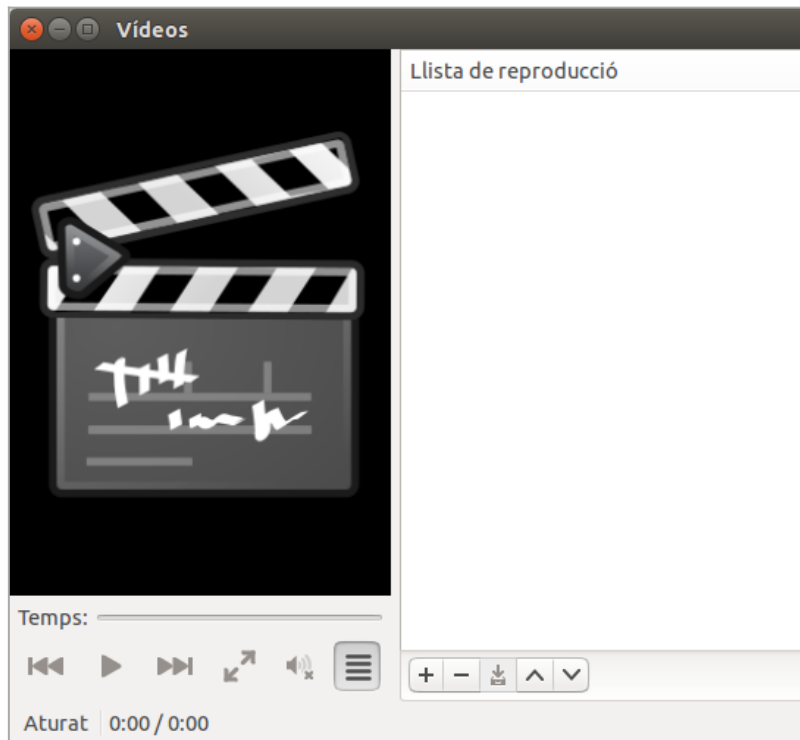
### Commands on a console



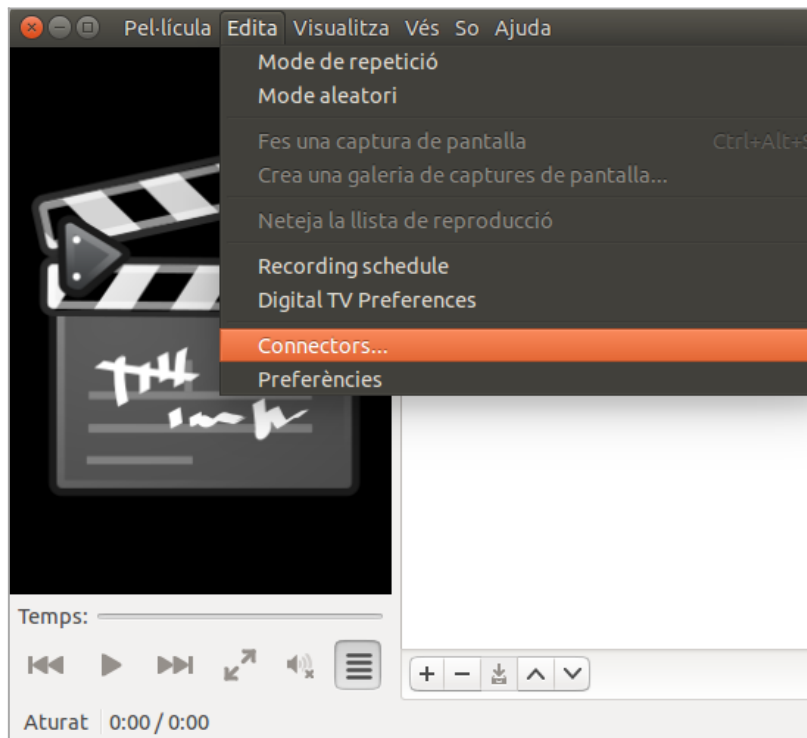
```
wget http://palosaari.fi/linux/v4l-dvb/firmware/af9015/5.24.0.0/dvb-usb-af9015.fw
sudo cp dvb-usb-af9015.fw /lib/firmware/
```

## 1.1.3. Setup the device with Totem

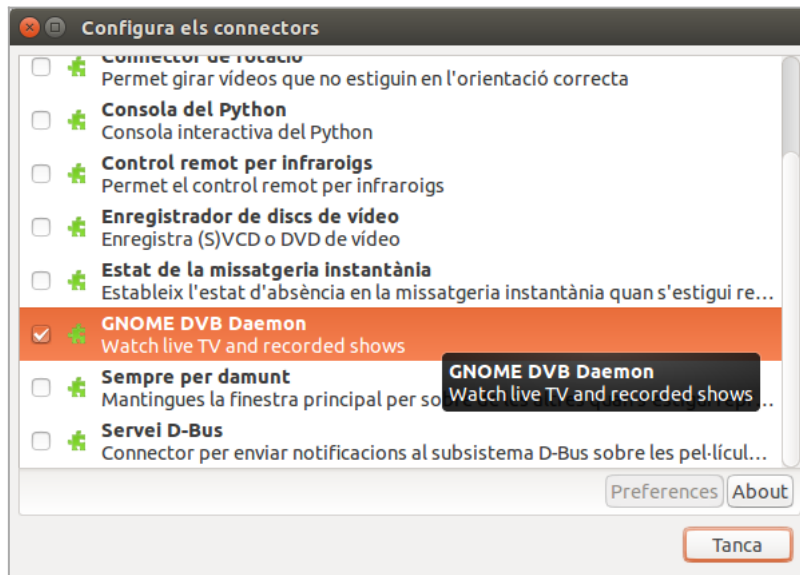
Then you can open the Video Player called "Totem" (**Videos** in the localized menu in Catalan and Spanish), and go to connectors in order to enable the support to manage DVB-T (TDT) channels from within Totem. It apparently works (the whole configuration worked apparently fine, recognizing the usb DVB-T receiver, channels, etc), but for some reason, the Totem program doesn't seem to be able to play the channels. The equivalent procedure worked like a charm with Kaffeine. Below you can find both setup procedures:



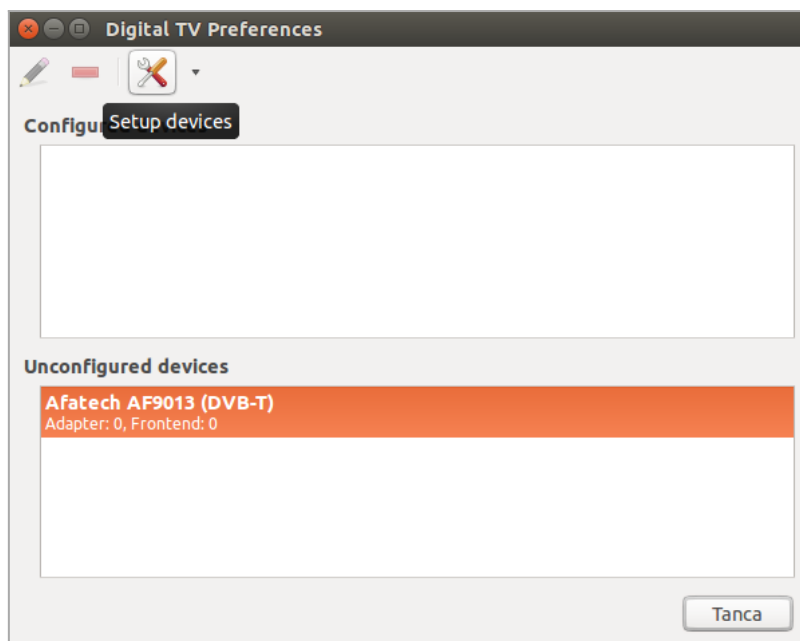
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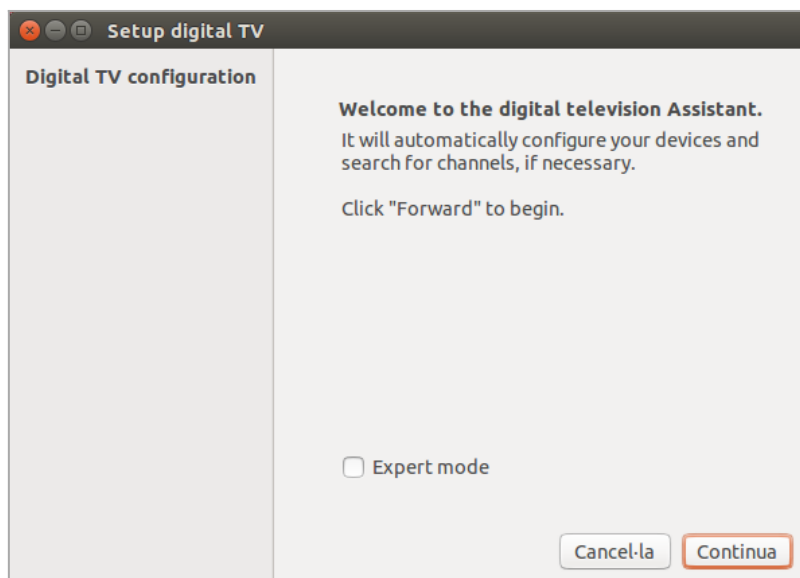
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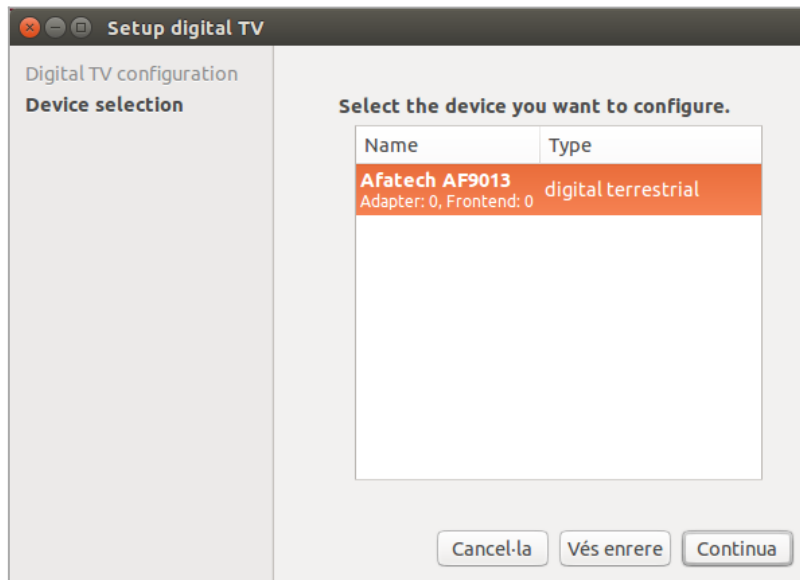
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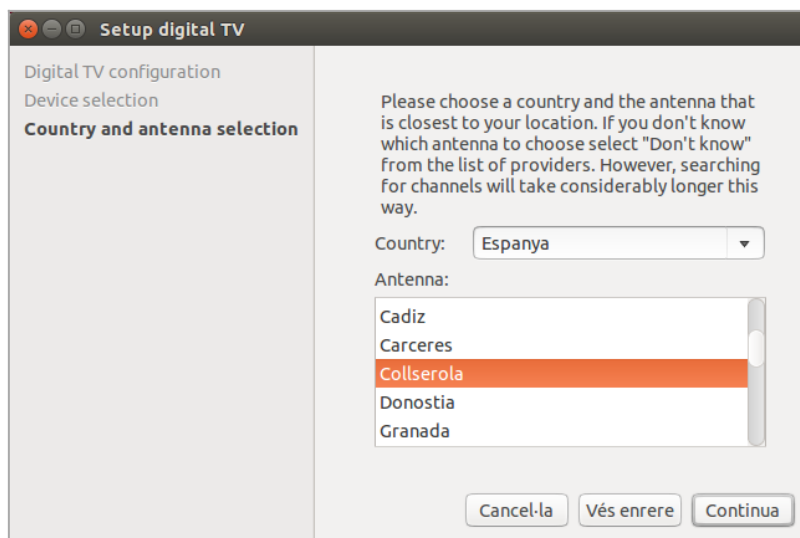
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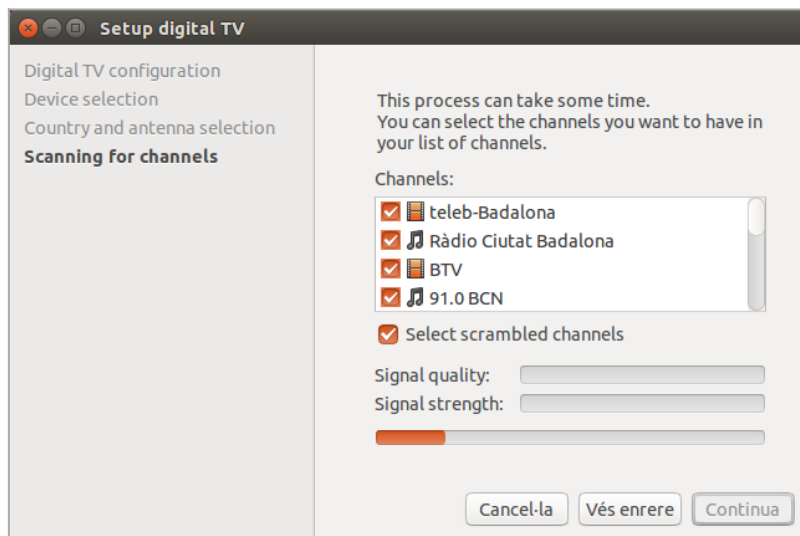
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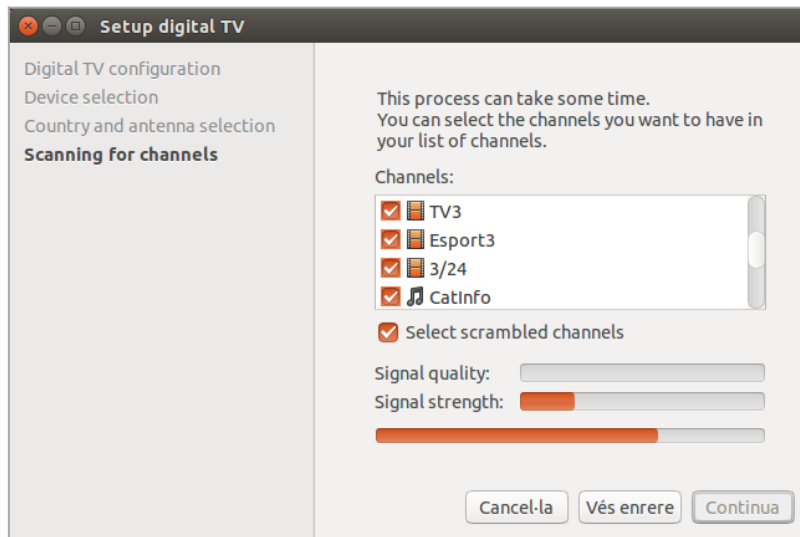
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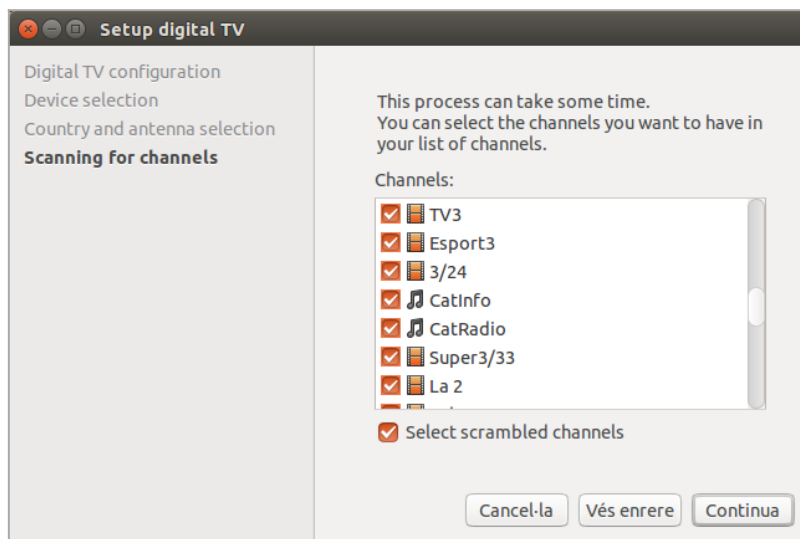
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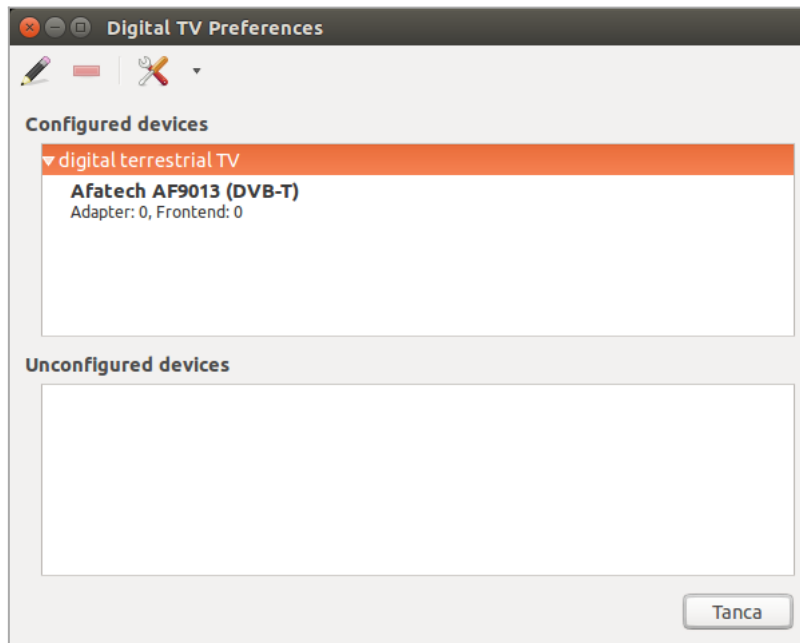
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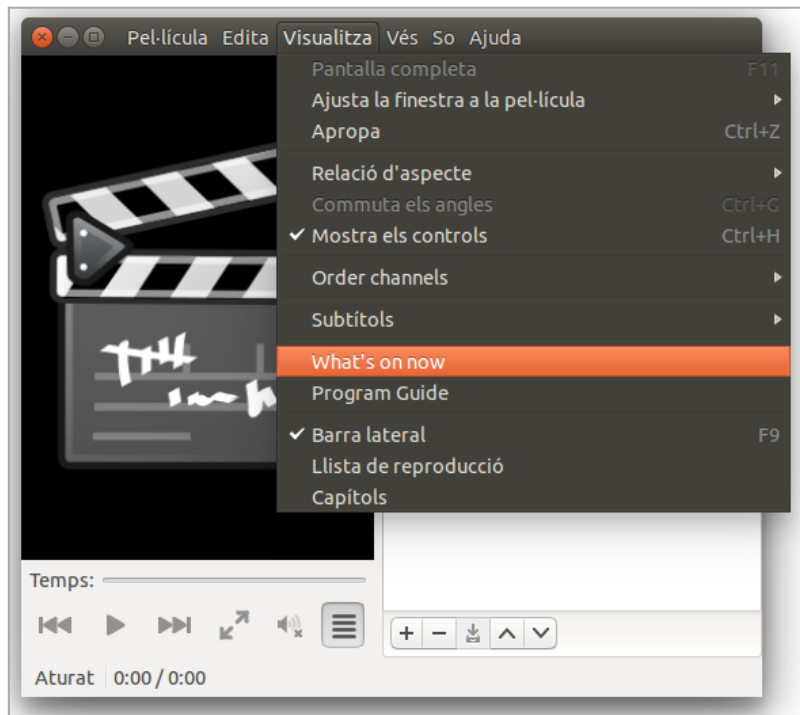
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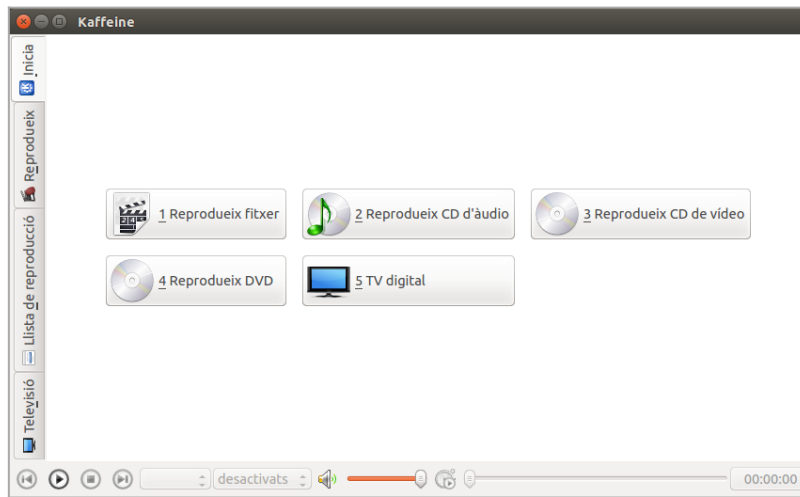
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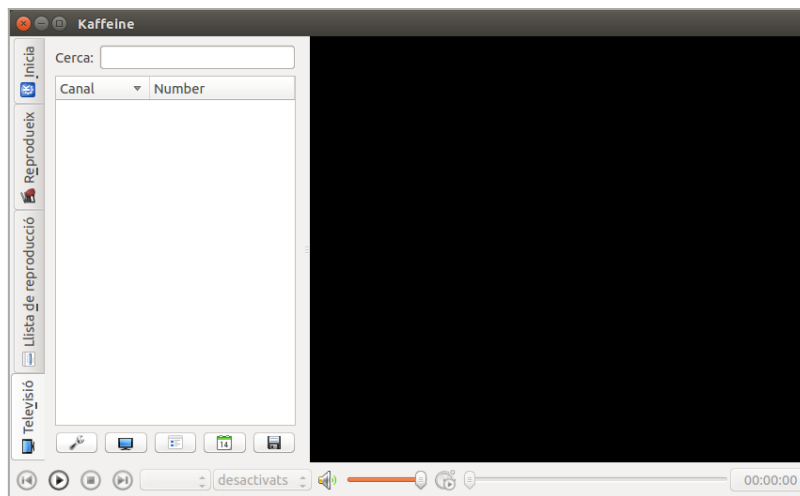
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## 1.2. Set up a DVB-T (TDT) USB stick with Kaffeine in Ubuntu 14.04

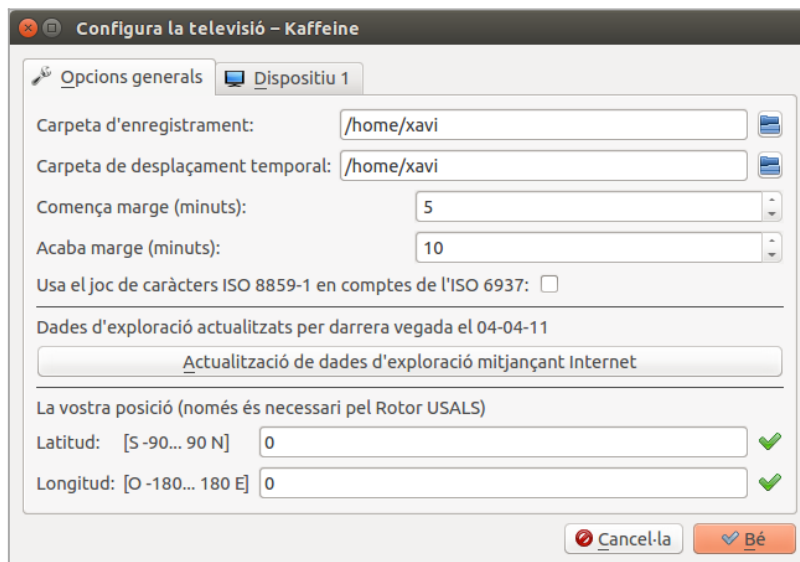
And using Kaffeine:



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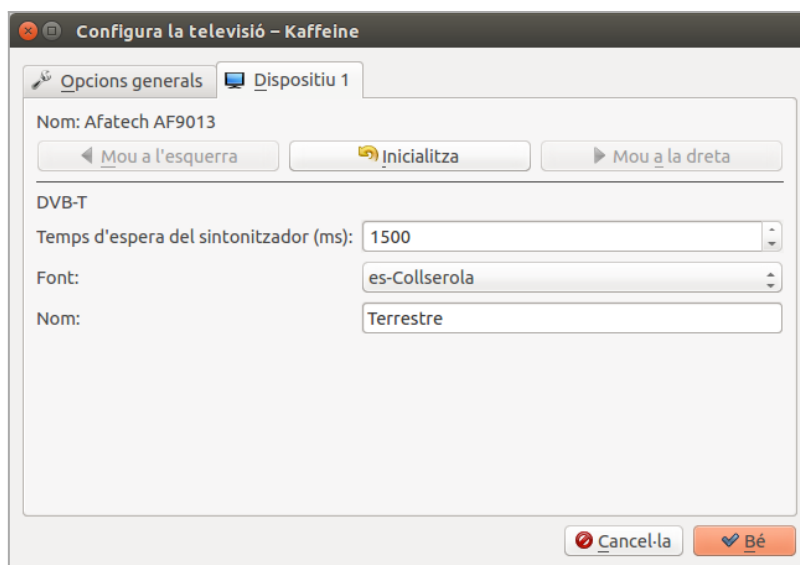


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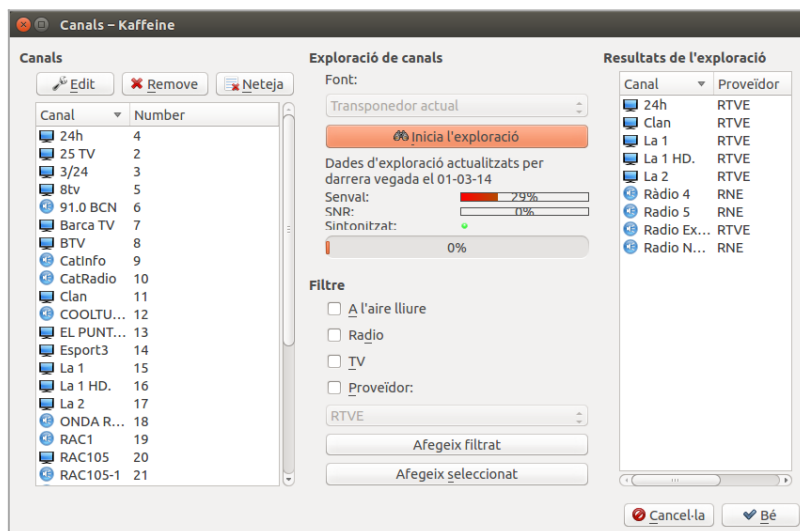




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## 1.3. Alternatively, set up and use DVB-T with ME-TV

There are several interesting programs suitable to watch DVB TV and radio streams:

- [http://linuxtv.org/wiki/index.php/TV\\_Related\\_Software](http://linuxtv.org/wiki/index.php/TV_Related_Software)
- [http://linuxtv.org/wiki/index.php/Me\\_TV](http://linuxtv.org/wiki/index.php/Me_TV)

Me-TV is able to scan channels, show TV program information, record streams, network broadcast, etc.

Install some apps for dvb playback in your computer:

### Commands on a console



```
sudo apt-get install dvb-apps me-tv  
me-tv
```



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## 1.4. Set up a DVB-T (TDT) USB stick with Kaffeine in Ubuntu 16.04

Since `linux-firmware-nonfree` package is not available any more in Ubuntu 16.04, you need to fetch the package from elsewhere than the usual default repositories. You can download it from here:

[https://ubuntu.pkgs.org/14.04/ubuntu-updates-multiverse-i386/linux-firmware-nonfree\\_1.14ubuntu3\\_all.deb.html](https://ubuntu.pkgs.org/14.04/ubuntu-updates-multiverse-i386/linux-firmware-nonfree_1.14ubuntu3_all.deb.html)<sup>[2]</sup>

Steps, in short:

1. Install this package, and kaffeine
2. Get the proprietary driver af9015 and place it in the `/lib/firmware` folder
3. plugin the dvb usb stick, and open kaffeine
  1. Go to Kaffeine > Television > Configure Television
    1. Setup the device, selecting the right location to get the frequencies for the non HD channels of your area
    2. Go to KAffeine > Television > Channels and get the list of channels. Copy the ones you are interested in your system.
4. you can use kaffeine normally.

Consider fetching a new usb stick capable of dvb hd channels.

Related:

- <https://ubuntu-mate.community/t/how-to-watch-digital-tv-with-kaffeine-or-me-tv-in-ubuntu/906><sup>[3]</sup>

Alias names for this page:

AF9015 | DVB-T | dvb | tdt | AF9015 DVB-T USB2.0 stick

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<sup>[1]</sup> <http://www.avermedia.eu/avertv/uk/product/ProductDetail.aspx?Id=438>

<sup>[2]</sup> [https://ubuntu.pkgs.org/14.04/ubuntu-updates-multiverse-i386/linux-firmware-nonfree\\_1.14ubuntu3\\_all.deb.html](https://ubuntu.pkgs.org/14.04/ubuntu-updates-multiverse-i386/linux-firmware-nonfree_1.14ubuntu3_all.deb.html)

<sup>[3]</sup> <https://ubuntu-mate.community/t/how-to-watch-digital-tv-with-kaffeine-or-me-tv-in-ubuntu/906>