TV INSIDE YOUR "UBUNTU" OR "LINUX MINT" LINUX COMPUTER

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Tucson Computer Society
TMUG
apcug
ATSC
Over-the-air signal from antenna

coxial cable
ATSC Over-the-air signal from antenna

coaxial cable

Avermedia "Volar Max" TV USB tuner (obsolete on purpose)

USB 2 cable
Cable TV
Signal from Comcast or Cox
Cable TV Signal from Comcast or Cox

coaxial cable

Avermedia "Volar Max" TV USB tuner (obsolete on purpose)

USB 2 cable
Cable TV signal from cable TV provider

ATSC Over-the-air signal from antenna

Comcast Large or Mini Set-top box (puts out legacy analog cable Channel 3)

A/B coaxial switch:
"A" = Comcast Set-top box
"B" = "Clear QAM" from Comcast

2-way coaxial cable splitter
Cable TV signal from Comcast or Cox

ATSC Over-the-air signal from antenna

Comcast Large or Mini Set-top box (puts out legacy analog cable Channel 3)

A/B coaxial switch: "A" = Comcast Set-top box "B" = "Clear QAM" from Comcast

A/B coaxial cable splitter

A/B coaxial switch

Avermedia "Volar Max" TV USB tuner (obsolete on purpose)

PC running GNU/Linux

USB 2 cable

Coaxial cable
SOFTWARE PROGRAMS FOR VIRTUAL TVs

• You need to add a tv software program to your computer (unless it already has one)
  – GNU/Linux computers
    o "Kaffeine" program
TV TUNERS FOR VIRTUAL TVs (continued)

• You need to add a TV tuner to your computer (unless it already has one) (continued)
  – TV Tuner options
    o USB TV tuner
    o PCI TV tuner (if your old system board has a spare PCI slot)
    o PCIe TV tuner (if your newer system board has a spare PCIe slot)
    o Network-attached tuner
TV TUNERS FOR VIRTUAL TVs (continued)

• A "Gotcha":
  – Some older set-top boxes (especially to mini "digital transport adapters" only put out a Channel 3 or Channel 4 "analog cable" signal while most tuners now only accept ATSC and clear QAM signals.
  – If you have one of these older set-top boxes, buy a tuner than has the old "analog cable" capability AND "QAM"/"ClearQAM capability."
TV TUNERS FOR VIRTUAL TVs (continued)

- You need to add a TV tuner to your computer (unless it already has one) (continued)
  - TV Tuner options (continued)
TV TUNERS FOR VIRTUAL TVs (continued)

• USB, PCI, and PCIe TV tuners
  o Hauppauge TV tuners
    ▪ USB tuners, PCI tuners, and PCIe tuners
    ▪ Use for "Windows..", Mac "OS X", and GNU/Linux computers
TV TUNERS FOR VIRTUAL TVs (continued)

- USB, PCI, and PCIe TV tuners
  - Hauppauge TV tuners (continued)
    - Do not use the newer Hauppauge WinTV-HVR-955Q USB TV tuner since it still does not work with most distros of Linux
    - Use the newer Hauppauge WinTV-HVR-955Q USB TV tuner since it has great compatibility with most distros of Linux
Hauppauge WinTV-HVR-950Q USB TV Tuner Stick/Hybrid Video Recorder with Remote Control

In stock.

- Nero LiquidTV | TiVo PC/SageTV/BeyondTV Compatible
- Remote Included
- Win7 Compatible
- ATSC / ClearQAM / NTSC
- USB 2.0 Interface
- Remote Included

FREE SHIPPING

QTY: 1

$69.99

Save: $10.00 (13%)

Protect Your Investment!

- 1-year extended warranty

Price Alert

ADD TO CART

FREE 2-Day Shipping

Like 38
Watch HDTV and clear QAM digital cable TV on your PC, netbook or laptop

Record TV to your PC
Easy install to USB port
Watch live TV on your notebook or desktop PC.
Watch HDTV channels from over-the-air ATSC or clear QAM digital cable TV, with digital audio and up to 1080i resolution.
Watch analog TV by connecting to cable TV.
View full screen or in a window.
Remote control and portable antenna included.

Record your favorite TV programs in the original HD quality. Record analog or digital TV shows to your computer’s hard drive with one click. Use the TV Scheduler as a personal video recorder to record your TV shows daily, weekly, or only once.
TV TUNERS FOR VIRTUAL TVs (continued)

• Use "Kaffeine" (in both KDE, GNOME, and GNOME 2) for both "Ubuntu" and "Linux Mint".
VIRTUAL TVs (continued)

–To determine your listing of cable channels:
  o Use the Web site of your cable television provider
  o http://silicondust.com/support/channels
  o http://titantv.com
VIRTUAL TVs (continued)

• Signal options
  – Over-the-air (OTA) “live TV” option (Advanced Television Systems Committee=ATSC)
    o Antenna on roof or in window
VIRTUAL TVs (continued)

• Signal options
  – Over-the-air (OTA) “live TV” option (continued)
    ○ antennaweb.org and tvfool.com both show the relative-to-true-North compass headings and actual television transmitter locations
AntennaWeb
Maximize your television reception

MAXIMIZE YOUR TELEVISION RECEPTION.
The Consumer Electronics Association (CEA) and the National Association of Broadcasters (NAB) have created a color-coded labeling standard to classify each of the available outdoor antenna types. AntennaWeb.org will help you discover the correct antenna type for your location and viewing preferences. With the proper antenna type determined, visit your retailer to select the desired antenna according to its color-coded type, manufacturer, features, and price.

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DISH® Network—Satellite
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The Leading HDTV Antenna
The One That Really Works Get The HDBLADE TV Antenna Today!
www.Goldielencom
Location Information:

To determine the proper antenna type for your viewing preferences, enter your ZIP Code. It is used to calculate the signal strength of each antenna that may be received at the center of the geographic area of the ZIP Code and determine which channels each antenna type is capable of receiving.

For most locations, the basic level of precision is sufficient for calculating reception and determining the correct antenna types to receive those channels.

ZIP Code: 

If you live in an area where the surrounding terrain, trees or other tall structures nearby may affect your television reception, enter your street address to refine the reception calculations and antenna type recommendations.

Street Address: 

Antenna Height:

Will the antenna be installed more than 30' above ground level?

☐ Yes ☐ No

* Indicates required field.

Submit  Reset
Location Information:

To determine the proper antenna type for your viewing preferences, enter your ZIP Code. It is used to calculate the signal strength of each antenna that may be received at the center of the geographic area of the ZIP Code and determine which channels each antenna type is capable of receiving.

For most locations, the basic level of precision is sufficient for calculating reception and determining the correct antenna types to receive those channels.

*ZIP Code: 85264

If you live in an area where the surrounding terrain, trees or other tall structures nearby may affect your television reception, enter your street address to refine the reception calculations and antenna type recommendations.

Street Address: 10438 N Fort McDowell Rd

Antenna Height:
Will the antenna be installed more than 30' above ground level?

- Yes
- No

Indicates required field.

Submit  Reset

AntennaWeb is designed for use with United States addresses only.
Top 7 Internet Providers 2013 Bestselling Internet Providers Compare Latest Deals & Save Big comparestores.net.Internet
150 Miles Digital Antenna 100-150 Miles HDTV Antennas. See "Deal Of The Day". Get $20 Off! www.digitalsource.com
2013's Best TV Antennas Compare Prices & More On Top-Rated TV Antennas. Save Big Now! www.HDTVsHousehold.com

AntennaWeb
Maximize your television reception

Stations
10438 North Fort McDowell Road, AZ 85264
To enter a different address, click here.

Stations and Antenna Types
The Stations column contains each station's primary channel and network and its distance and direction in degrees from this location. Click on a station to learn more about it and any sub-channels it airs.

The Antenna column lists the color-coded antenna type needed to receive a particular station. Click on a color to view more information about that antenna type.

Select the appropriate antenna type by choosing the color that receives the stations you want to view.

Learn What's On
To view a schedule for these channels, go to TitanTV.com, a FREE television guide millions have relied upon since 2000.

Up to 32 channels from 12 over-the-air stations may be received at this location.
information about that antenna type.

Select the appropriate antenna type by choosing the color that receives the stations you want to view.

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Up to 32 channels from 12 over-the-air stations may be received at this location.

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Stream TV Online Free Create a Favorites List for TV Show Updates & Alerts - Watch Free Now! www.TelevisionFanatic.com
Top DSL Internet Services You Need Fast & Reliable Internet. Cheapest Prices for Top Service. CardOfFinance.com/DSLInternet
Unlimited Wi-Fi: $9.95/mo Wireless internet at thousands of hotspots nationwide. Sign-up now. Rengo.com
The Leading HDTV Antenna The One That Really Works Get The HDBLADE TV Antenna Today! www.SoldSignal.com

Privacy Policy Copyright Broadcast Interactive Media 2013 U.S. Patent No. 6,832,070
Select the appropriate antenna type by choosing the color that receives the stations you want to view.

**Learn What’s On**

To view a schedule for these channels, go to [TitanTV.com](http://www.titan.tv), a FREE television guide millions have relied upon since 2000.

Up to 32 channels from 12 over-the-air stations may be received at this location. [Print Stations Table and Map](http://www.heartlandamerica.com)
You need a Medium Directional Antenna with pre-amp.

These medium-size, multi-element antennas are the most popular rooftop antenna because of their modest size and ghost-reducing characteristics. These are best used if there are any ghost-producing reflective structures near your location.

**Tv Mounting**
Enter Your Zip Code & Connect Now! Find Local Pre-Screened Contractors

**HughesNet® Official Site**
Limited Time $39 HughesNet Special- New and Improved! HughesNet® Gen4

**HughesNet® - $39 Internet**
New Customer Offer. Get Our Best Deal Ever for HughesNet Gen4
[SatelliteStarInternet.com/HughesNet](http://SatelliteStarInternet.com/HughesNet)

**2013's Best Tv Antennas**
Compare Prices & More On Top-Rated Tv Antennas: Save Big Now!
[www.HDTVs.HouseKool.com](http://www.HDTVs.HouseKool.com)

**Antenna Reception Patterns**
- Small Multi-directional
- Medium Multi-directional
- Large Multi-directional or Small Directional w/pre-amp
- Medium Directional
- Medium Directional w/pre-amp
- Large Directional w/pre-amp

**Antenna Selector**
This antenna works in the following zone(s).

*Look for this mark on your antenna box*
You need a Large Directional Antenna.

These large, multi-element rooftop antennas are used in weak signal areas for maximum possible TV reception. These antennas can be used in ANY LOCATION, but require an amplifier and roof mounting to receive blue and purple channels. Amplifiers are not recommended for yellow channels.

Antenna Reception Patterns

- Small Multi-directional
- Medium Multi-directional
- Large Multi-directional or Small Directional w/pre-amp
- Medium Directional
- Medium Directional w/pre-amp
- Large Directional w/pre-amp

Look for this mark on your antenna box
VIRTUAL TVs (continued)

- Signal options
  - Over-the-air (OTA) “live TV” option (continued)
    - However, antennaweb.org does NOT show sub-channels greater than .1 so you can use http://en.wikipedia.org/wiki/List_of_television_stations_in_Arizona to determine what sub-channels greater than .1 are available.
VIRTUAL TVs (continued)

• Signal options (continued)
  – Cable TV option
    o Set-top box from cable provider (full-sized set-top box OR mini set-top box = digital transport adapter)
    o Clear QAM (fewer channels than with a set-top box)

Or use a antenna/cable switch (=A/B or A/B/C switch) or manually switch between any or all of the above 3 signal options!
VIRTUAL TVs (continued)

• Most TV software programs require that you perform a "live TV setup" before you can watch "live TV"

• You will also have to perform a "live TV setup" whenever you change from one model of TV tuner to another
SCREEN SHOTS OF THE "KAFFEINE" PROGRAM
Recording folder: /home/testuser
Time shift folder: /home/testuser
Begin margin (minutes): 5
End margin (minutes): 10
Use ISO 8859-1 charset instead of ISO 6937: 
Scan data last updated on 04/04/11
Update scan data over Internet

Your position (only needed for USALS rotor)
Latitude: [S -90 ... 90 N] 0
Longitude: [W -180 ... 180 E] 0
Configure Television – Kaffeine

General Options

Device 1

Name: Auvitek AU8522 QAM/8VSB Frontend

ATSC

Tuner timeout (ms): 1500

Source: No Source

Name: Atsc

Buttons:

- Move Left
- Reset
- Move Right

Options:

- Cancel
- OK
Name: Auvitek AU8522 QAM/8VSB Frontend

ATSC
Tuner timeout (ms): 1500

Source:
Name:

No Source
us-ATSC-center-frequencies-8VSB
us-CA-SF-Bay-Area
us-Cable-EIA-542-HRC-center-frequencies-QAM256
us-Cable-EIA-542-IRC-center_frequencies-QAM256
us-Cable-HRC-center-frequencies-QAM256
us-Cable-IRC-center-frequencies-QAM256
us-Cable-Standard-center-frequencies-QAM256
us-ID-Boise
us-MA-Boston
us-MI-Lansing
us-NTSC-center-frequencies-8VSB
us-PA-Philadelphia
Configure Television – Kaffeine

General Options  Device 1

Name: Auvitek AU8522 QAM/8VSB Frontend

ATSC
Tuner timeout (ms): 1500
Source: us-ATSC-center-frequencies-8VSB
Name: Atsc

Reset
Channels - Kaffeine

Channels

Channel Scan

Source:
Atsc

Start Scan

Scan data last updated on 09/08/11
Signal: 0%
SNR: 0%
Tuned: 0%

Filter
Free to air
Radio
TV
Provider:

Add Filtered
Add Selected

Scan Results

Channel Provider
040-1 KHRR-DT
040-2 Telemundo Exitos...
040-3 Canal S.O. I.
SCREEN SHOT OF THE "TV TIME" PROGRAM
tvtime [3]: the other white meat
SCREEN SHOTS OF THE "KAFFEINE" PROGRAM
General Options

Recording folder: /home/testuser
Time shift folder: /home/testuser

Begin margin (minutes): 5
End margin (minutes): 10

Use ISO 8859-1 charset instead of ISO 6937:

Scan data last updated on 04/04/11

Update scan data over Internet

Your position (only needed for USALS rotor)

Latitude: [S -90 ... 90 N] 0
Longitude: [W -180 ... 180 E] 0

Cancel OK