

# VIRTUAL TV INSIDE YOUR COMPUTER

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# SUMMARY

- You can watch television with your computer if you do the following:
  - Install a television tuner
  - Connect the television tuner to either an antenna or the signals of a cable television service
  - Install or activate a software program that is capable of displaying "live TV"

# TV SIGNALS FOR VIRTUAL TVs

- You can get television signals from either an antenna (free) or a cable television service (usually not free).
- For details, see [http://www.aztcs.org/meeting\\_notes/winhardsig/add-ons/TV/TVsignals.pdf](http://www.aztcs.org/meeting_notes/winhardsig/add-ons/TV/TVsignals.pdf)

# TV SIGNALS FOR VIRTUAL TVs

## (continued)

- If you use an antenna, you will get mainly "ATSC" signals and a few low-powered "NTSC" signals.
- If you use a cable television service, you will get "Encrypted QAM" signals and a few "Clear QAM" signals (if your cable television service offers some).

# TV SIGNALS FOR VIRTUAL TVs (continued)

- **Antenna:**  
"ATSC" signals (many channels)  
and  
low-powered "NTSC" signals (few channels)

# TV SIGNALS FOR VIRTUAL TVs

(continued)

- **Cable television service:**  
"Encrypted QAM" signals  
with "Set-Top Box" (many  
channels)  
and  
"Clear QAM" signals (a few  
channels, if your cable television  
service offers some).

# OVER-THE-AIR RECEPTION WITH A REAL TV SET:

mainly ATSC  
and a few  
NTSC  
Over-The-Air  
signals  
from an  
antenna

RG-59 coaxial cable



# OVER-THE-AIR RECEPTION WITH A VIRTUAL TV SET INSIDE A COMPUTER:

mainly ATSC  
and a few  
NTSC  
Over-The-Air  
signals  
from an  
antenna

RG-59 coaxial cable

TV Tuner  
for PC or Mac

USB 2 cable  
or  
USB 3 cable  
or  
PCIe slot



RECEPTION OF  
(SOME) CABLE TV  
PROVIDER'S  
CLEAR QAM  
SIGNALS  
WITH A REAL TV  
SET:

"Clear QAM"  
signal from  
some cable  
TV providers

RG-59 coaxial cable



# RECEPTION OF CABLE TV PROVIDER'S ENCRYPTED QAM SIGNALS WITH A VIRTUAL TV SET INSIDE A COMPUTER:

"Encrypted QAM"  
signal from  
cable TV  
provider

RG-59 coaxial cable

"Set-Top Box" or  
"Digital Transport  
Adapter" from  
cable TV provider

USB 2 cable  
or  
USB 3 cable  
or  
PCIe slot



# TELEVISION SIGNAL OPTIONS

## (continued)

- Using two A/B coaxial switches and a 2-way coaxial cable splitter, you can switch between the following three signal options:

ATSC and NTSC antenna signals  
and

Encrypted QAM signals from the cable  
provider's "Set-Top Box"  
and

Clear QAM signals from the cable  
provider (if they provide them) <sup>11</sup>

Cable TV  
signal from  
cable TV  
provider

"Set-Top Box"  
or "Digital  
Transport  
Adapter"  
from  
cable TV  
provider

coaxial cable

coaxial cable



A/B coaxial  
switch



2-way coaxial  
cable splitter



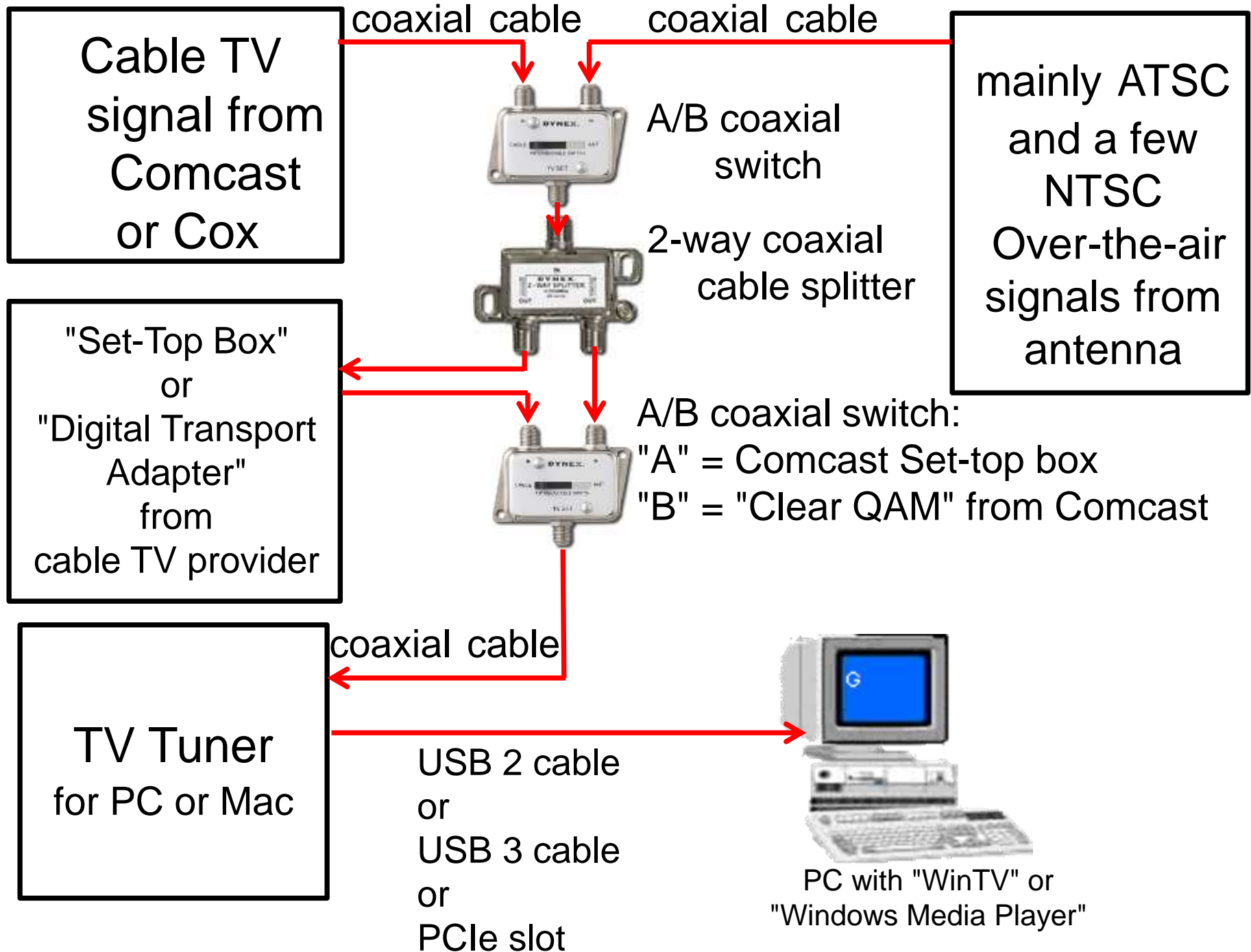
A/B coaxial switch:

"A" = cable provider's set-top box  
"B" = "Clear QAM" from cable  
provider

coaxial  
cable



mainly ATSC  
and a few  
NTSC  
Over-the-air  
signals from  
antenna



# EQUIPMENT CONFIGURATION OPTIONS FOR VIRTUAL TVs

- To run a virtual TV inside your computer, you need:
  1. TV tuner for your computer,
  2. TV signal from a cable television service or from an antenna
  3. Software program that can display "live TV"

# TV TUNERS FOR VIRTUAL TVs

- You need to add a TV tuner to your computer (unless it already has one)
  - "Windows Media Center" computers tend to already have a TV tuner in them: Run "Belarc" to see what your computer has already in it.

## 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
    - USB TV tuner
    - PCI TV tuner (if your old system board has a spare PCI slot)
    - PCIe TV tuner (if your newer system board has a spare PCIe slot)
    - 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 "hybrid tuner" than has BOTH the old "analog cable" ("NTSC") capability AND "QAM" ("Clear QAM") 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)
    - Network-attached tuner
      - ❑ Slingbox works with analog cable channel 3 from a Comcast large or mini set-top box
      - ❑ HDHomeRun does not work with Comcast large or mini set-top box because it cannot accept analog cable channel 3 which is output by Comcast set-top boxes

Welcome to SiliconDust » Products » HDHomeRun » HDHomeRun (US)

## HDHomeRun (US)



### Any computer on your home network

HDHomeRun is a TV tuner for computers – Ethernet attached. Once connected to your home router you can access the HDHomeRun Tuners from any computer, anywhere in your home. Watch / Record TV from you Family Room / Kitchen / Garage / Backyard, anywhere you have a computer.



### Up to 1080i HDTV

The HDHomeRun streams the full-quality digital stream from the broadcaster or cable provider, ensuring that you get the highest quality possible, including 720p and 1080i HDTV when available.



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## Slingbox 500

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\$179.99

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In Stock

### Store Help & Promos

#### Slingbox Store Help

##### Order Status

Check your Slingbox order status.

##### Slingbox Upgrade Program

If you currently own an original Slingbox, Slingbox PRO-HD, Slingbox SOLO, Slingbox PRO, Slingbox AV or Slingbox TUNER, you are eligible to receive \$30 off\* a new Slingbox 350 or Slingbox 500.

## TV TUNERS FOR VIRTUAL TVs (continued)

- USB, PCI, and PCIe TV tuner brands
  - Elgato TV tuners
    - USB tuners only
    - Bundled with "EyeTV" software for Macs
    - Use with "Windows Media Center" for PCs
    - Does not work with Hauppauge's "WinTV 7.x" software in Windows.. PCs.

## TV TUNERS FOR VIRTUAL TVs (continued)

- USB, PCI, and PCIe TV tuner brands
  - Hauppauge TV tuners
    - USB tuners, PCI tuners, and PCIe tuners
    - Bundled with "WinTV" software for PCs
    - Use for "Windows.." PCs and Macs
    - Can use "EyeTV" program in Macs with Hauppauge TV tuners
  - AVerMedia TV tuners
    - USB tuners
    - Use for "Windows.." PCs only

←

↔

http://www.newegg.com/Product/Product.aspx?Item=N82E16815131014

🔍

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Slingbox.com - Buy a ...

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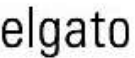
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elgato EyeTV Hybrid 2010 TV Tuner for Mac or PC EyeTV Hybrid 2010 USB 2.0 Interface

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# eye**tv** hybrid

TV Tuner Stick

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All-in-One TV for your Mac or PC



watch record edit enjoy



## **All-in-One TV for your Mac or PC**

Superbly engineered and versatile, EyeTV Hybrid turns your Mac or PC into a TV set and digital video recorder. Connect an antenna or your TV cable directly to EyeTV Hybrid to receive HDTV and standard TV over the air (ATSC), unencrypted digital cable (Clear QAM), or basic cable. What's more, EyeTV Hybrid can record from a cable or satellite set top box, video recorder or camcorder, using either composite or S-Video connections.

## **System Requirements | Configuration système requis | Requisitos del sistema**

- Macintosh: Intel Core® processor, Mac OS X v10.5.8 or later
- PC: 2.0 GHz Intel/AMD CPU or Intel Atom CPU, Windows 7 Media Center
- 1 GB RAM, built-in USB 2.0 port

Internet connection required to download Program Guide data. Analog signals are processed via software encoder, quality depends on processor performance. Reception varies by location, a rooftop antenna may be required in areas with a weak or obstructed signal. This product does not include an antenna. It is compatible with all indoor and outdoor HDTV antennas. For more information about selecting the right antenna for you visit <http://www.antennaweb.org> (USA only)

100%

**Hauppauge!**

**WinTV-HVR 9500**  
HYBRID TV STICK

2012 -  
12-05



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

Record TV to your PC  
Easy install to USB port



model 1191

## **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)

- The AVerMedia "AVerTV Hybrid Volar Max" that we tested worked for "Media Center" in both "Windows 8" and "Windows 7". It did not work in "Windows 8.1".

2012-05-12




## AVerTV Hybrid Volar MAX- Windows® Starter Kit

Plug in this TV tuner to Windows® 7 (Home Premium, Professional, Enterprise or Ultimate) to turn your PC into a powerful digital video recorder. Watch and record your favorite analog & digital TV channels plus radio programs.



**Just turn it on.**

[www.WindowsMediaCenter.com](http://www.WindowsMediaCenter.com)

		
<ul style="list-style-type: none"><li>• Analog Cable TV (NTSC) and Unencrypted Digital Cable Support</li><li>• Powerful Channel Scan Capability (ATSC)</li><li>• EPG (Electronic Program Guide)</li><li>• Closed Caption</li><li>• Parental Control</li></ul>	<ul style="list-style-type: none"><li>• Support des chaînes analogiques (NTSC) et numériques non-encryptées du câble.</li><li>• Puissant moteur de détection de chaînes</li><li>• Supporte EPG</li><li>• Closed Caption</li><li>• Contrôle parental</li></ul>	<ul style="list-style-type: none"><li>• TV Analógica por Cable (NTSC) y Soporte Digital No Codificado por Cable</li><li>• Capacidad de búsqueda de canales avanzada</li><li>• Guía electrónica de programas</li><li>• Captura cercana</li><li>• Control parental</li></ul>

### Getting started

1. Plug the enclosed TV tuner into your WMC PC.
2. Open Windows Media Center from the Start Menu.
3. Plug your TV antenna or cable into the TV tuner.
4. Setup your TV signal in Windows Media Center.

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### Specifications

- Input Signal
  - 75  $\Omega$  TV Antenna
  - FM Radio Antenna

### System Requirements

- For MPEG-2 Recording and TimeShifting
  - Intel® Pentium® 4 2.6GHz
  - AMD Athlon™ XP 2600+
  - Intel® Pentium® Mobile 1.8GHz
- VGA card supports DirectX 9.0c and HD DXVA
- 1GB of memory or above
- USB 2.0 Port
- Sound Card
- Windows® 7\*

\* Windows® 7 Starter and Home Basic Edition are not Supported.



Windows 7 InBox  
Driver Compatible

## TV TUNERS FOR VIRTUAL TVs (continued)

- With the exception of Hauppauge's excellent "WinTV version 7.x" software, most tuners are bundled with atrocious software for simulating a TV
- Use the bundled and other free (but atrocious) software for fun but don't rely on it!

## TV TUNERS FOR VIRTUAL TVs (continued)

- Avermedia tuners are bundled with "Aver MediaCenter" software which did not work well for us.
- Hauppauge tuners are bundled with "WinTV" software which works well in "Windows 8" and "Windows 8.1" but not so well in "Windows 7".
- Asus tuners are bundled with "GadgeTV", "Pop-UpTv", and "ExpressTV" software which did not work well for us.<sup>34</sup>

# VIRTUAL TVs (continued)

–To determine your listing of cable channels:

- Use the Web site of your cable television provider
- <http://silicondust.com/support/channels>
- <http://titantv.com>
- <http://tvfool.com>

# VIRTUAL TVs (continued)

- Signal options
  - Over-the-air (OTA) “live TV” option (mainly Advanced Television Systems Committee=ATSC signals)
    - Antenna on your roof or in a window
    - Use [antennaweb.org](http://antennaweb.org) AND [http://en.wikipedia.org/wiki/List\\_of\\_television\\_stations\\_in\\_Arizona](http://en.wikipedia.org/wiki/List_of_television_stations_in_Arizona) to determine what TV stations are in your area

# VIRTUAL TVs (continued)

- Signal options
  - Over-the-air (OTA) “live TV” option (continued)
    - The [antennaweb.org](http://antennaweb.org) Web site shows relative-to-true-North compass headings and actual television transmitter locations, for any specific address location in the United States.

# VIRTUAL TVs (continued)

- Signal options
  - Over-the-air (OTA) “live TV” option (continued)
    - At most locations in the United States, you will receive mainly digital "ATSC" over-the-air television channels with one to five low-powered "NTSC" analog television channels.


# VIRTUAL TVs (continued)

- Signal options
  - Over-the-air (OTA) “live TV” option (continued)
  - Most USB or PCIe television tuners only are capable of receiving ATSC television channels over the air (and QAM signals from a cable television system). To receive both ATSC and low-powered NTSC television channels, you will need to obtain a “hybrid tuner” (= a hybrid USB or PCIe television tuner.)

[http://antennaweb.org/](#)
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**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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**YOUR ULTIMATE GUIDE TO CONSUMER ELECTRONICS.**  


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## 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.

AntennaWeb is designed for use with United States addresses only.

**\$49<sup>99</sup>**

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http://antennaweb.org/Stations.aspx?Address=10438+North AntennaWeb - Stations

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## 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](http://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. [Print Stations Table and Map](#)

Stations	Antenna
KAET-DT 8.1 PBS RF Channel: 8 28 miles at 232°	Blue
KPAZ-DT 21.1 TBN RF Channel: 20 28 miles at 232°	Blue

Map Satellite

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http://antennaweb.org/Stations.aspx?Address=10438+North+Fort+McDowell+Road&Ci

AntennaWeb - Stations



information about that antenna type.

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

Receives 300 degree reception & way,  
mounting bracket. \$29.99  
[www.heartlandamerica.com](http://www.heartlandamerica.com)

AdChoices

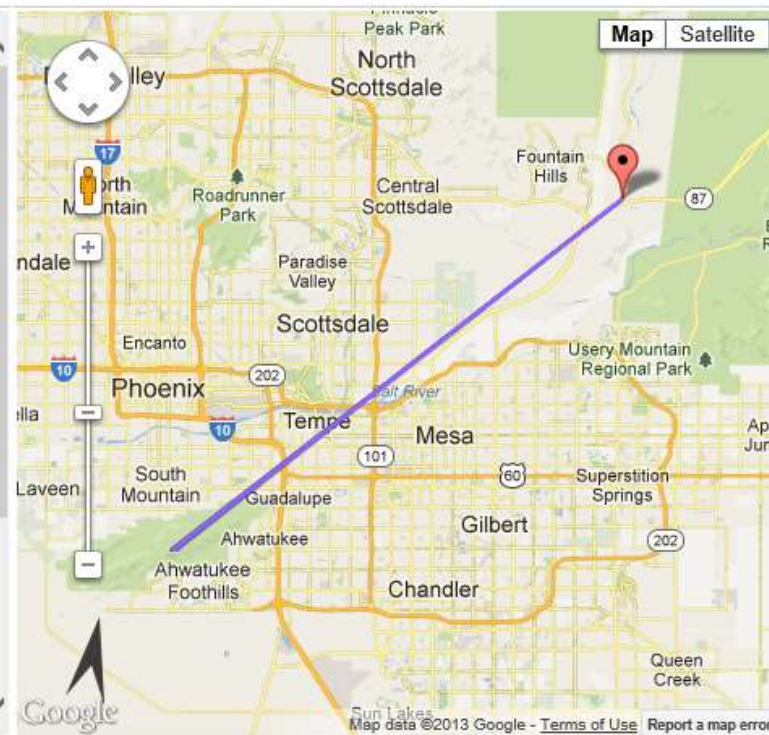
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[Print Stations Table and Map](#)

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<b>KPAZ-DT</b> 21.1 TBN RF Channel: 20 28 miles at 232°	 Blue
<b>KPHO-DT</b> 5.1 CBS RF Channel: 17 28 miles at 232°	 Blue
<b>KPNX-DT</b> 12.1 NBC RF Channel: 12 28 miles at 232°	 Blue
<b>KSAZ-DT</b> 10.1 FOX RF Channel: 10 28 miles at 232°	 Blue
<b>KTVK-DT</b> 3.1 IND RF Channel: 24 28 miles at 232°	 Blue
<b>KUTP-DT</b> 45.1 MNT RF Channel: 26 28 miles at 232°	 Blue
<b>KASW-DT</b> 61.1 CW RF Channel: 49 28 miles at 232°	 Violet
<b>KNXV-DT</b> 15.1 ABC RF Channel: 15	 Violet



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http://antennaweb.org/Stations.aspx?Address=10438+North+Fort+McDowell+Road&Ci

AntennaWeb - Stations



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](http://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.

[Print Stations Table and Map](#)

20 times at 232°

**KPNX-DT 12.1 NBC**

RF Channel: 12  
28 miles at 232°



Blue

**KSAZ-DT 10.1 FOX**

RF Channel: 10  
28 miles at 232°



Blue

**KTVK-DT 3.1 IND**

RF Channel: 24  
28 miles at 232°



Blue

**KUTP-DT 45.1 MNT**

RF Channel: 26  
28 miles at 232°



Blue

**KASW-DT 61.1 CW**

RF Channel: 49  
28 miles at 232°



Violet

**KNXV-DT 15.1 ABC**

RF Channel: 15  
28 miles at 232°



Violet

**KPPX-DT 51.1 ION**

RF Channel: 51  
28 miles at 232°



Violet

**KTAZ-DT 39.1 TEL**

RF Channel: 39  
28 miles at 232°



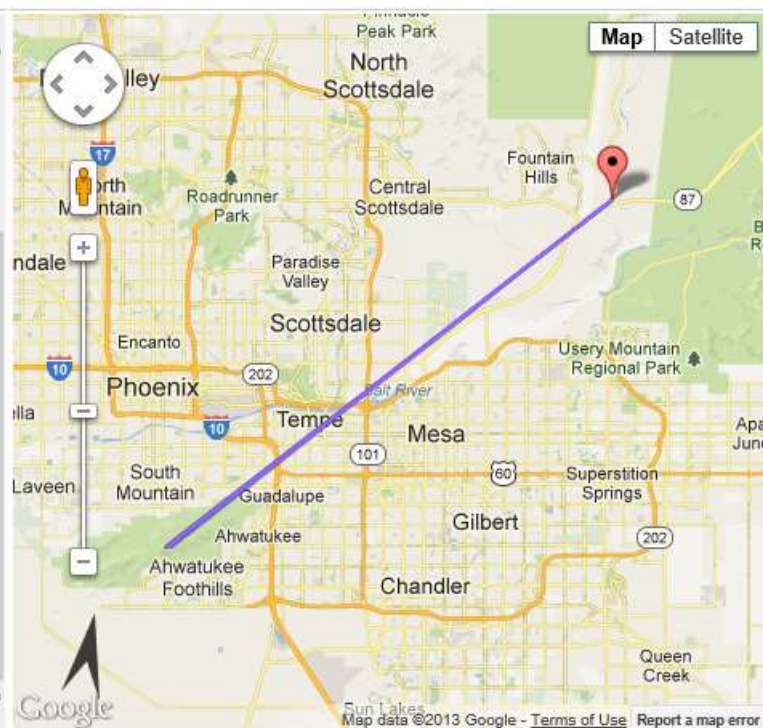
Violet

**KTVW-DT 33.1 UNI**

RF Channel: 33  
28 miles at 232°



Violet



[Stream TV Online Free](#) Create a Favorites List for TV Show Updates & Alerts - Watch Free Now! [www.TelevisionFantic.com](http://www.TelevisionFantic.com)

[Top DSL Internet Services](#) You Need Fast & Reliable Internet. Cheapest Prices for Top Service. [CanDoFinance.com/DSLInternet](http://CanDoFinance.com/DSLInternet)

[Unlimited Wi-Fi: \\$9.95/mo](#) Wireless internet at thousands of hotspots nationwide. Sign-up now [Boingo.com](http://Boingo.com)

[The Leading HDTV Antenna](#) The One That Really Works Get The HDBLADE TV Antenna Today! [www.SolidSignal.com](http://www.SolidSignal.com) AdChoices

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U.S. Patent No. 6,832,070

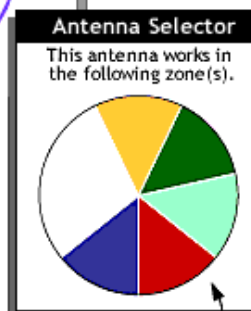
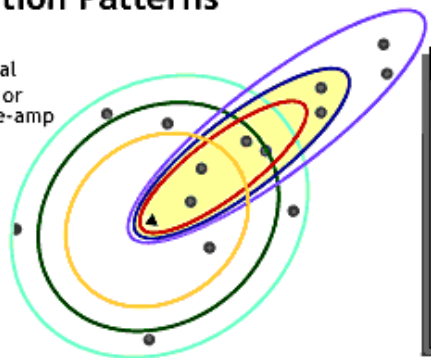
## You need a Medium Directional Antenna with pre-amp.

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.

### 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
- Stations
- Selected Antenna Reception Patterns



Look for this mark on your antenna box

### [Tv Mounting](#)

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

[www.HomeAdvisor.com](http://www.HomeAdvisor.com)

### [HughesNet® Official Site](#)

Limited Time \$39 HughesNet Special- New and Improved! HughesNet® Gen4

[www.HughesNet.com](http://www.HughesNet.com)

### [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)

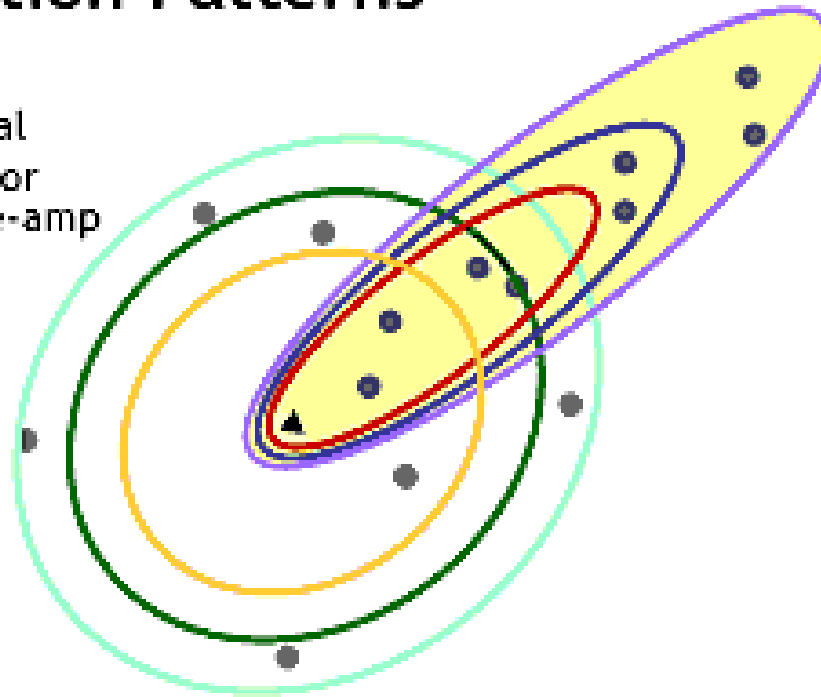
AdChoices ▶

Close

# Antenna Reception Patterns

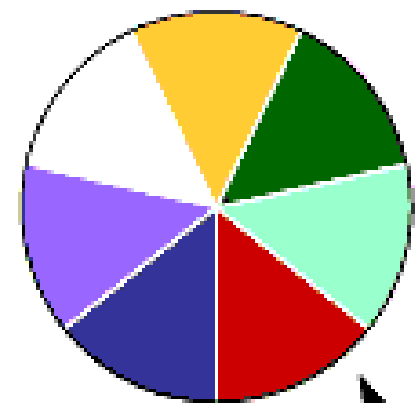
- Small Multi-directional
- Medium Multi-directional
- Large Multi-directional or Small Directional w/pre-amp
- Medium Directional
- Medium Directional w/pre-amp
- Large Directional w/pre-amp

- ▲ Antenna
- Stations
- Selected Antenna Reception Patterns



## Antenna Selector

This antenna works in the following zone(s).



*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](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
    - Set-top box from cable provider (full-sized set-top box OR mini set-top box = digital transport adapter)
    - Some cable providers provide "clear QAM" channels (which will give you fewer channels than with a set-top box). ("Comcast" in Pima County does not provide clear QAM channels as of November 2013.)

# VIRTUAL TVs (continued)

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

# VIRTUAL TVs (continued)

- Most TV software programs including "Windows Media Center" 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





Windows Media Center



ENG

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# SOFTWARE PROGRAMS FOR VIRTUAL TVs

- You need to add a tv software program to your computer (unless it already has one)
  - "Windows.." computers
    - Microsoft's "Windows Media Center"
    - Hauppauge's "WinTV" version 7
    - "ProgDVB" See <http://progdvb.com/>

# SOFTWARE PROGRAMS FOR VIRTUAL TVs

- You need to add a tv software program to your computer (unless it already has one)
  - "Windows.." computers
    - Microsoft's "Windows Media Center"
    - Hauppauge's "WinTV" version 7
    - "ProgDVB" See <http://progdvb.com/>

# SOFTWARE PROGRAMS FOR VIRTUAL TVs

- Microsoft's "Windows Media Center"
  - "Windows 8" version of "Windows Media Center"
    - Costs extra (~\$10) for a "Windows 8 Pro" PC
    - Works with fewer models of TV tuners relative to the "Windows 7" version

# SOFTWARE PROGRAMS FOR VIRTUAL TVs

- Microsoft's "Windows Media Center" (continued)
  - "Windows 7" version of "Windows Media Center"
    - Bundled in with "Windows 7 Professional" and higher
    - Works with many models of TV tuners

# SOFTWARE PROGRAMS FOR VIRTUAL TVs

- Microsoft's "Windows Media Center" (continued)
  - "Windows 7" version of "Windows Media Center"
    - Bundled in with "Windows 7 Professional" and higher
    - Works with "Asus" USB tuner sticks

# SOFTWARE PROGRAMS FOR VIRTUAL TVs

- Microsoft's "Windows Media Center" (continued)
  - "Windows 7" version of "Windows Media Center"
    - Bundled in with "Windows 7 Professional" and higher
    - Works with "Asus" USB tuner sticks













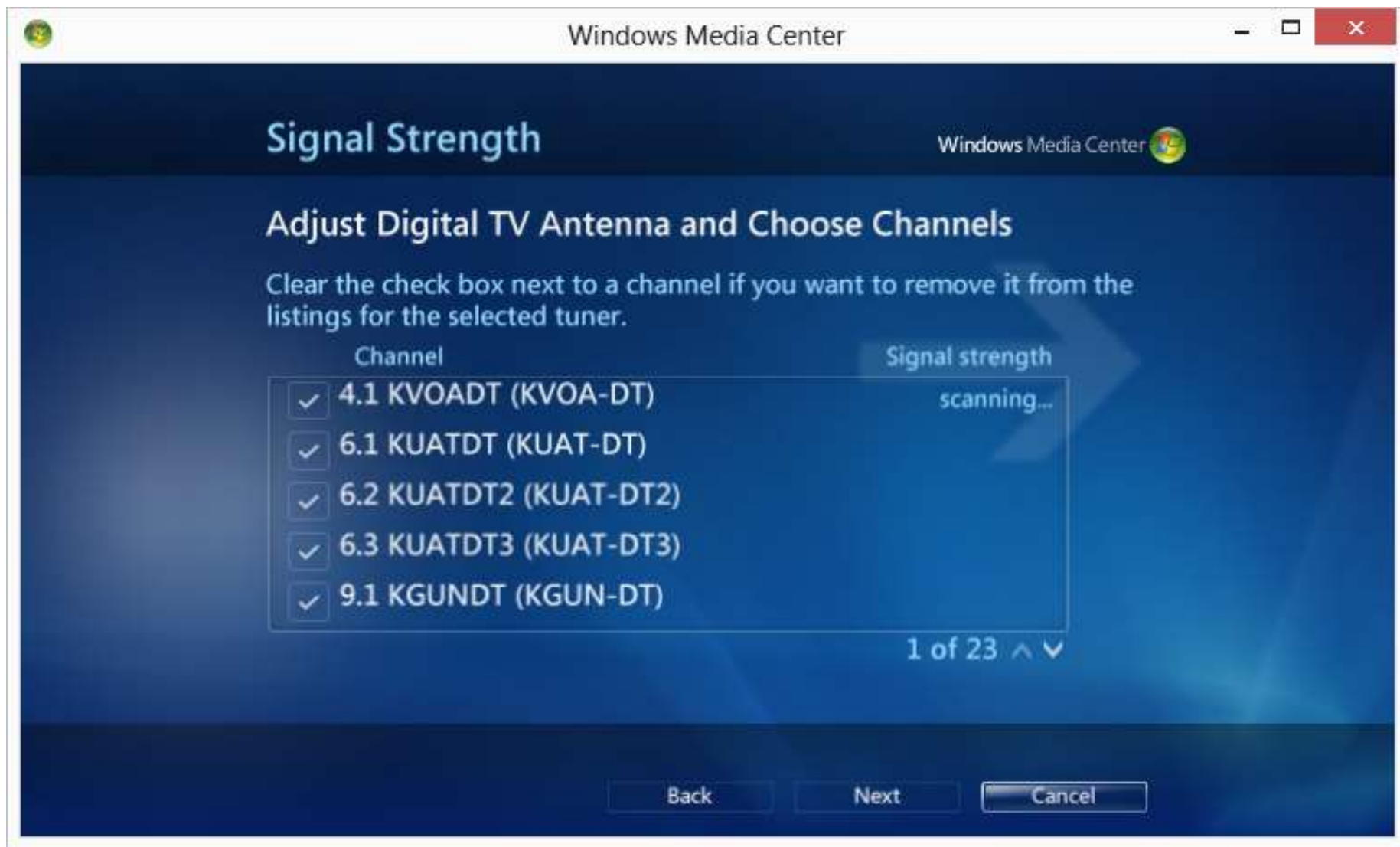


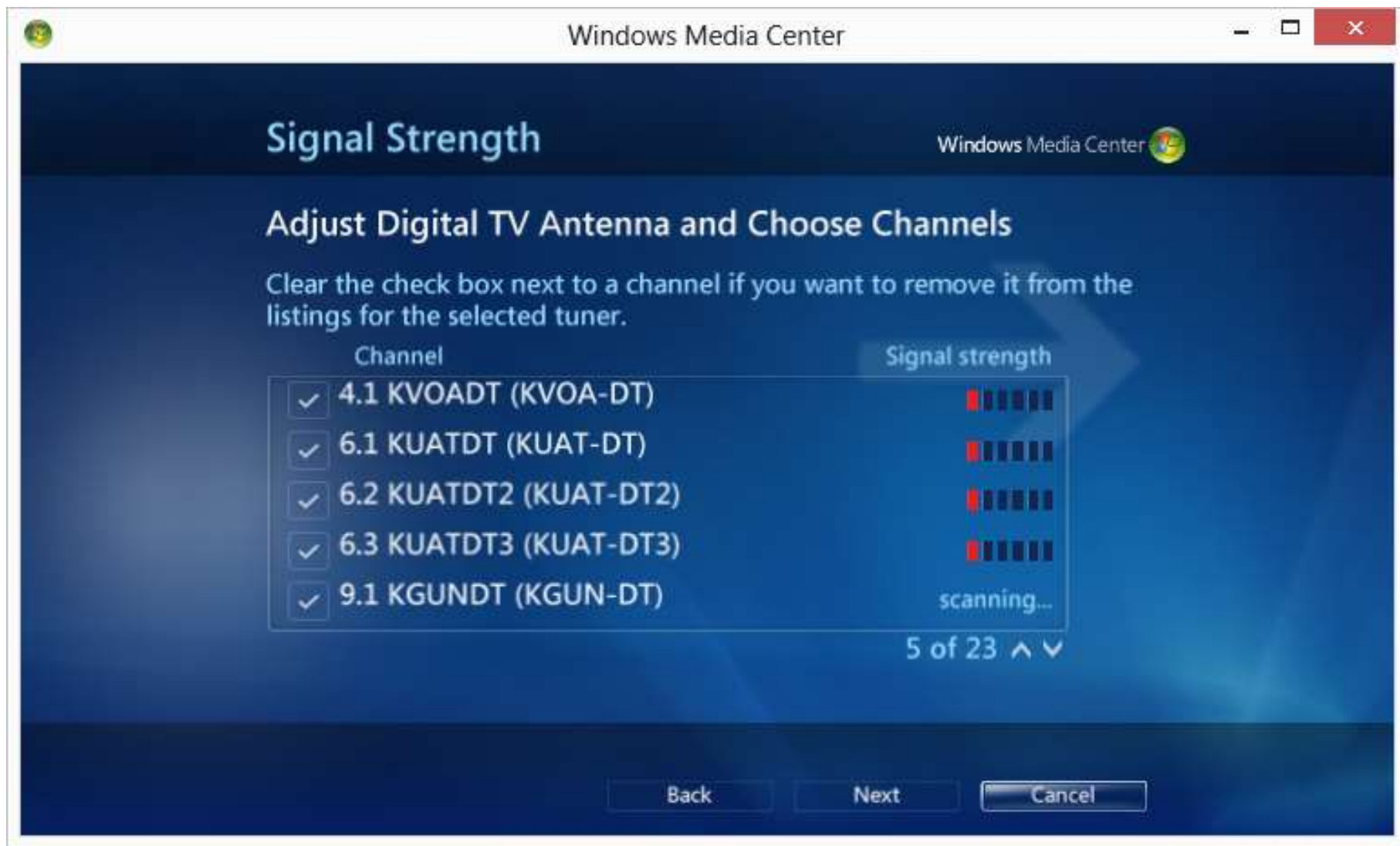


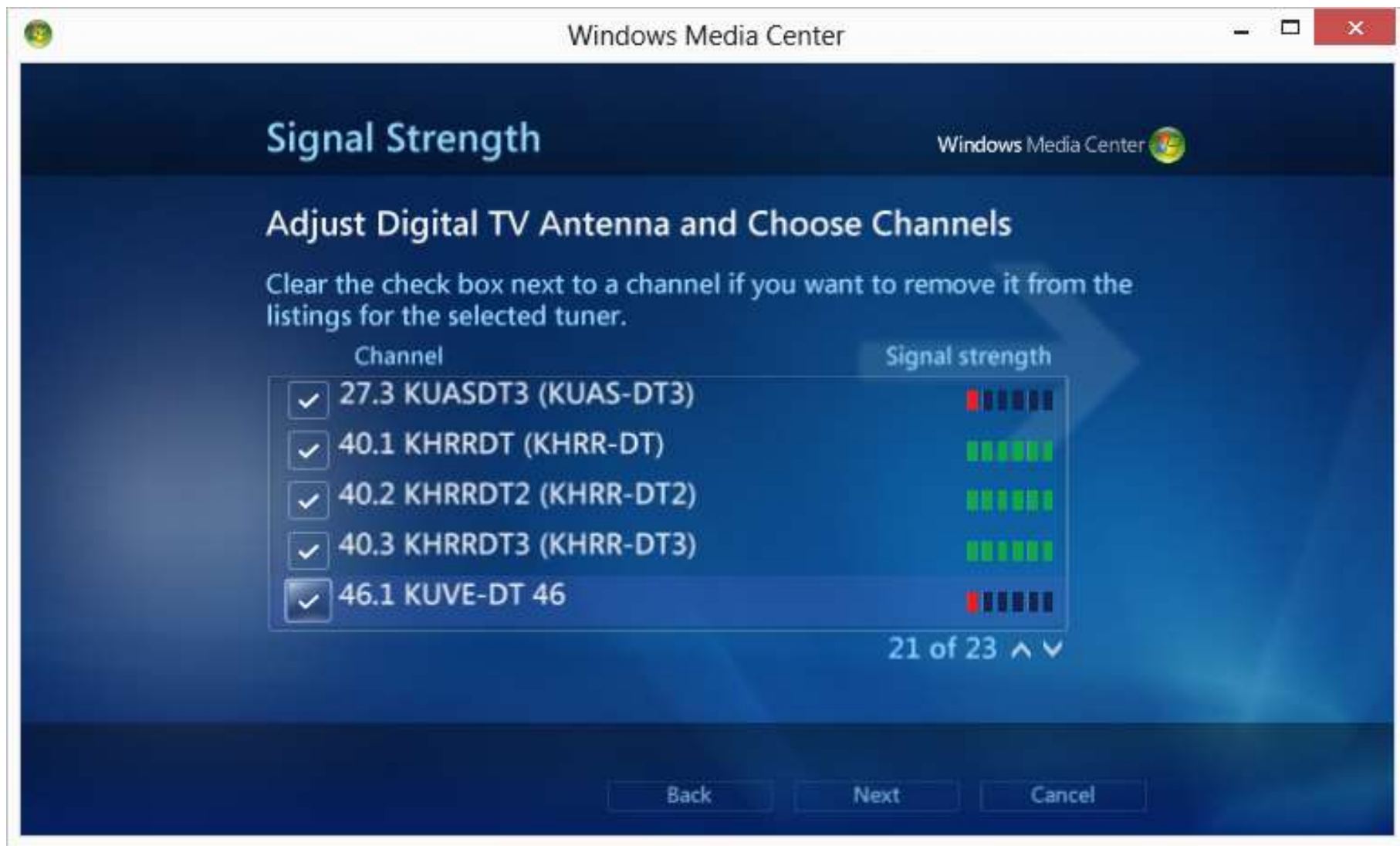




















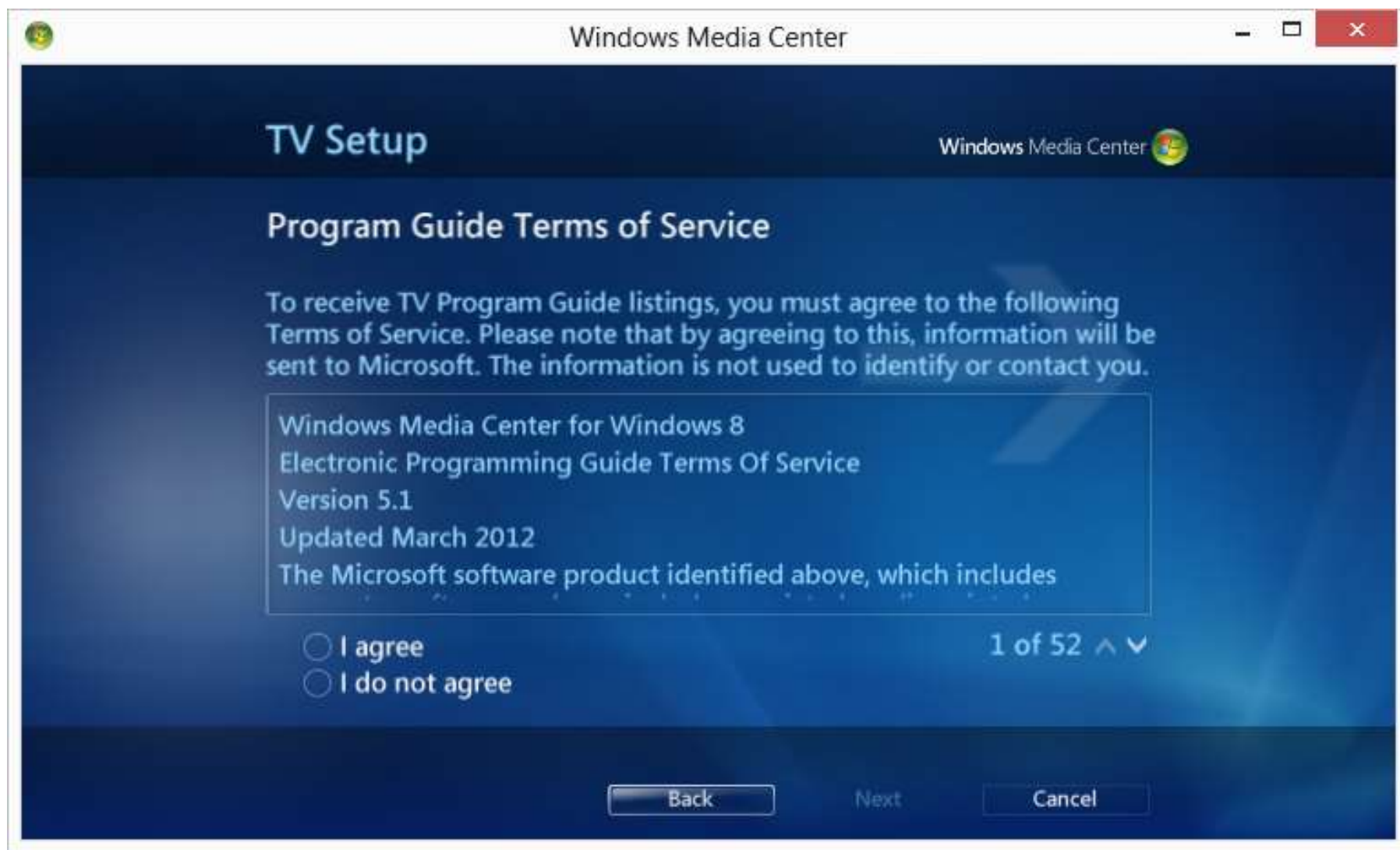












## TV Setup

Windows Media Center 

## Program Guide Terms of Service

To receive TV Program Guide listings, you must agree to the following Terms of Service. Please note that by agreeing to this, information will be sent to Microsoft. The information is not used to identify or contact you.

Windows Media Center for Windows 8  
Electronic Programming Guide Terms Of Service  
Version 5.1

Updated March 2012

The Microsoft software product identified above, which includes

- ☒ I agree  
☐ I do not agree

1 of 52 ^ v

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Cancel

## TV Setup

Windows Media Center 

## Program Guide Terms of Service

To receive TV Program Guide listings, you must agree to the following Terms of Service. Please note that by agreeing to this, information will be sent to Microsoft. The information is not used to identify or contact you.

Windows Media Center for Windows 8  
Electronic Programming Guide Terms Of Service  
Version 5.1  
Updated March 2012  
The Microsoft software product identified above, which includes

- ☒ I agree  
☐ I do not agree

1 of 52 ^ v

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# SOFTWARE PROGRAMS FOR VIRTUAL TVs

- Hauppauge's "WinTV"
  - Only works with Hauppauge's USB, PCI, and PCIe tuners
  - Works much more reliably in "Windows 8", relative to "Windows 7", "Windows Vista", and "Windows XP"

# SOFTWARE PROGRAMS FOR VIRTUAL TVs

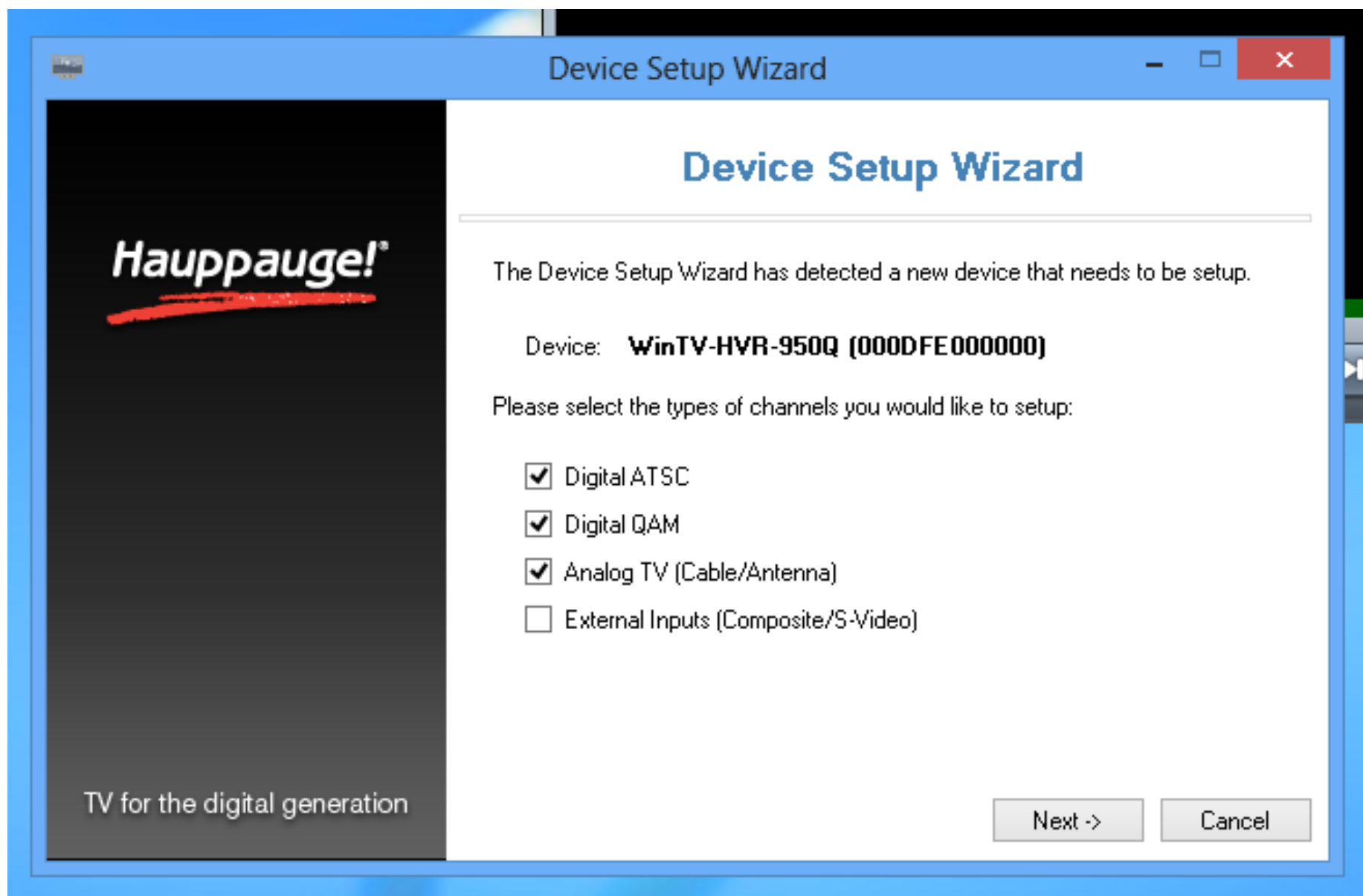
- Hauppauge's "WinTV" (continued)
  - Can be purchased separately for about \$10. See [http://www.hauppauge.com/site/webstore2/webstore\\_cd-wintvv7.2.asp](http://www.hauppauge.com/site/webstore2/webstore_cd-wintvv7.2.asp) (They know that you also have to buy a Hauppauge TV tuner.)

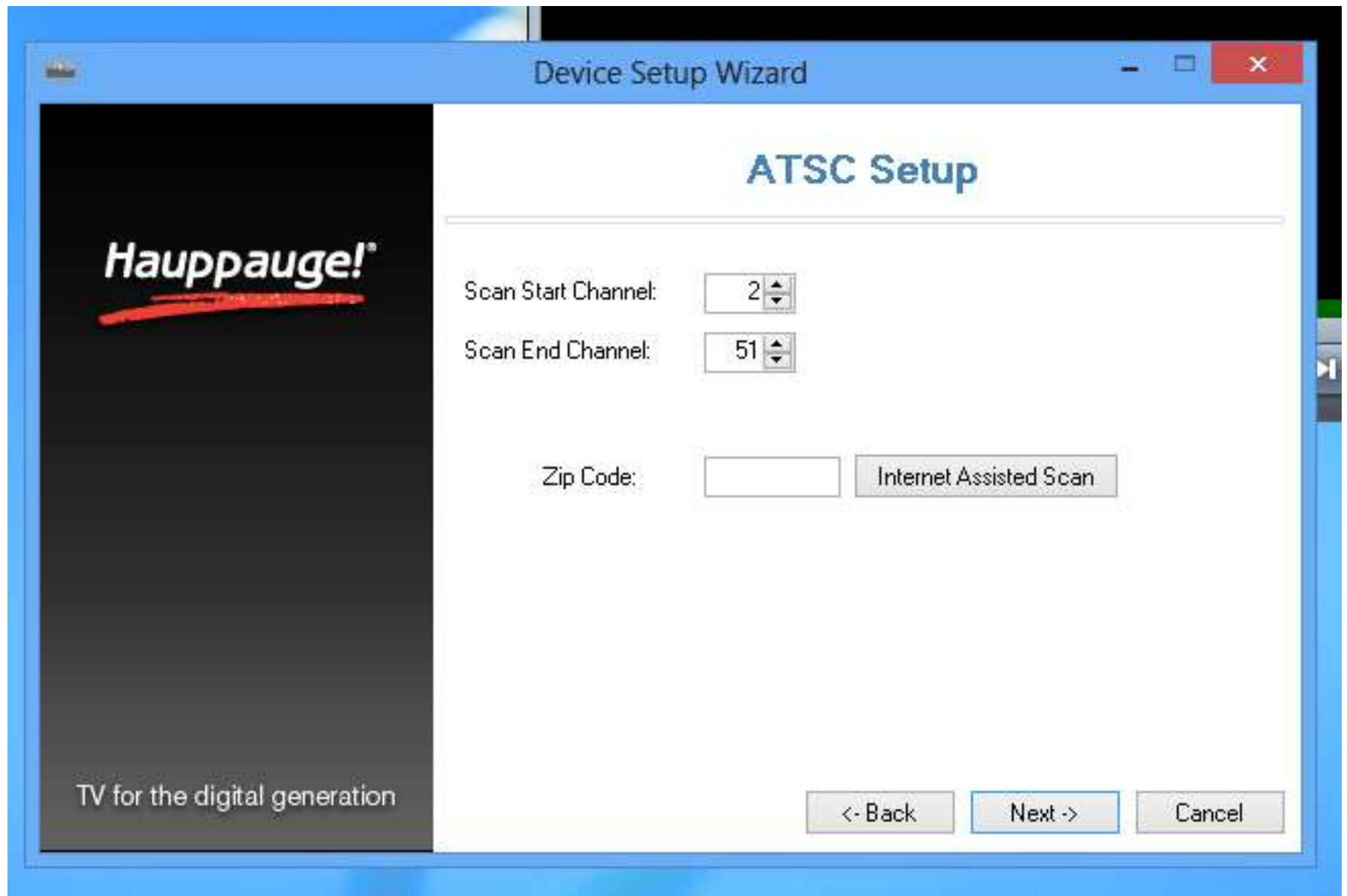
# SOFTWARE PROGRAMS FOR VIRTUAL TVs

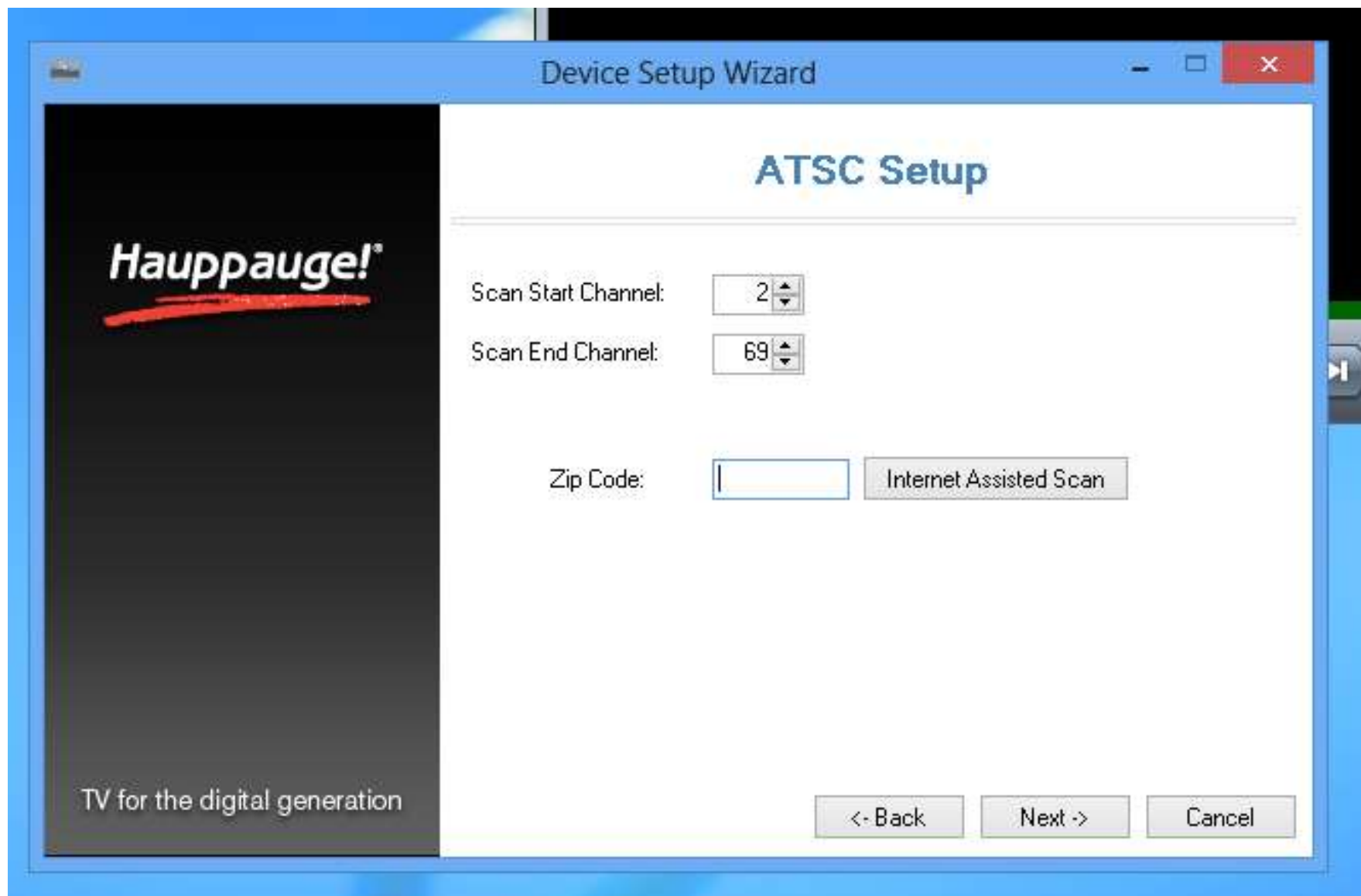
- Hauppauge's "WinTV" (continued)
  - The current version of "WinTV" is version 7. It provides a sharper television picture relative to "Windows Media Center" in "Windows 7" and "Windows 8".

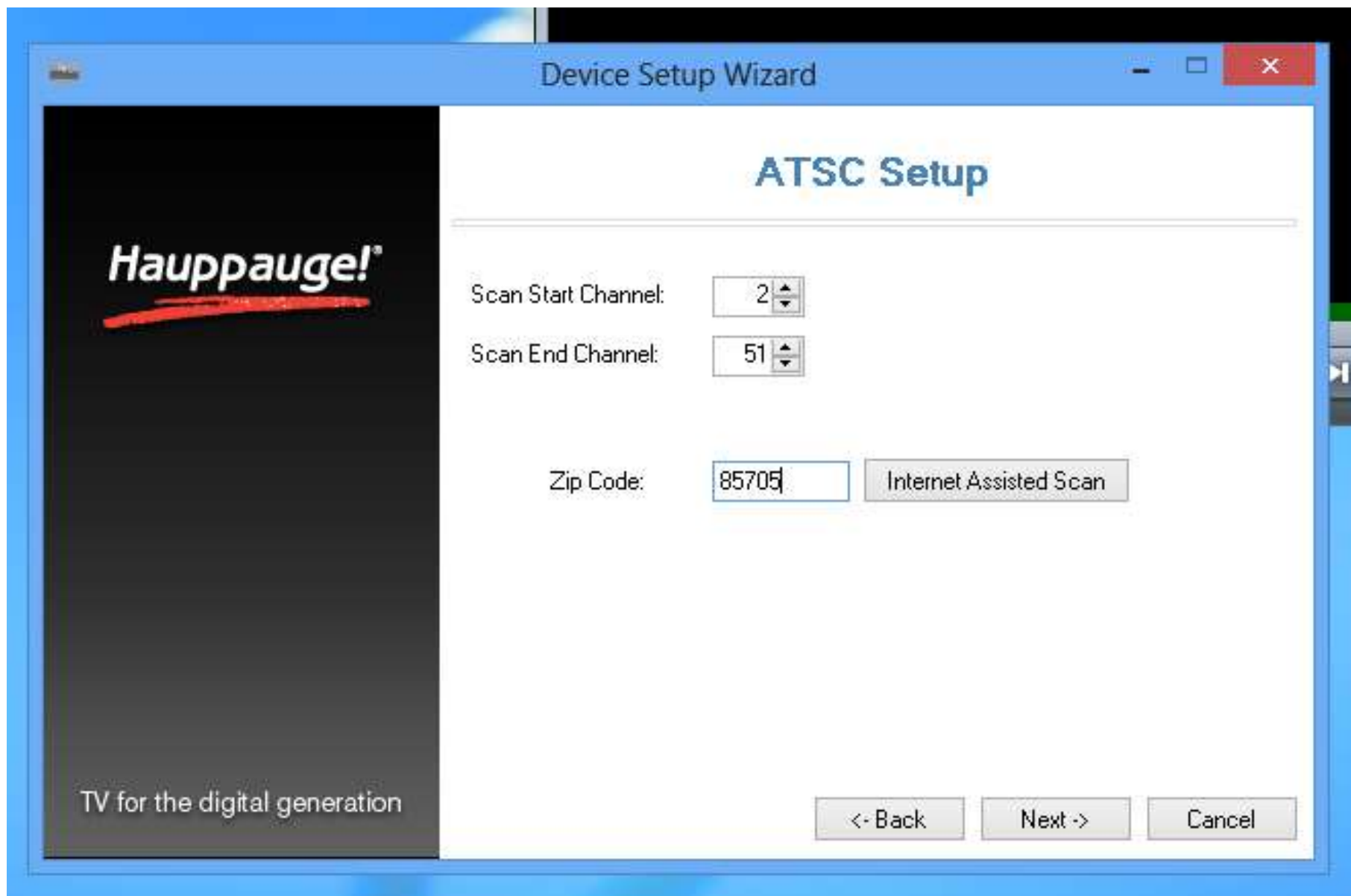


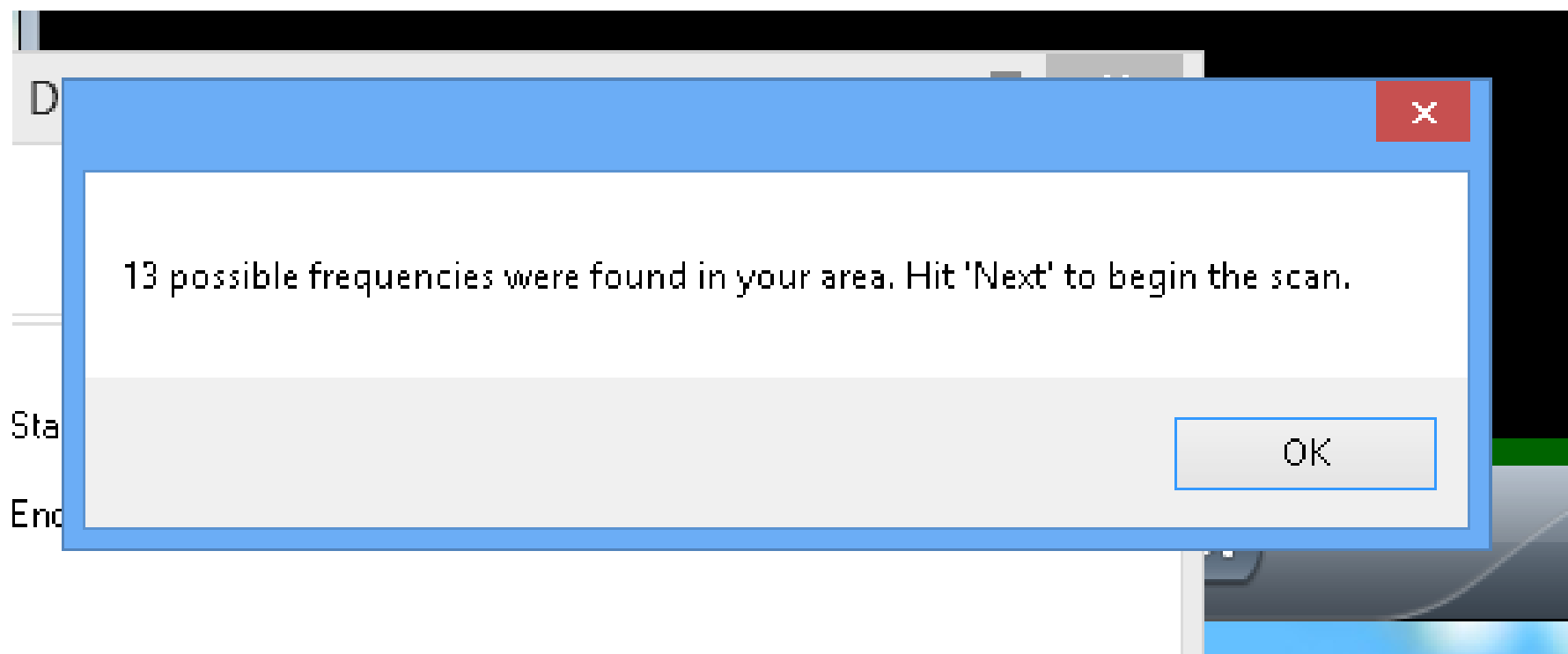


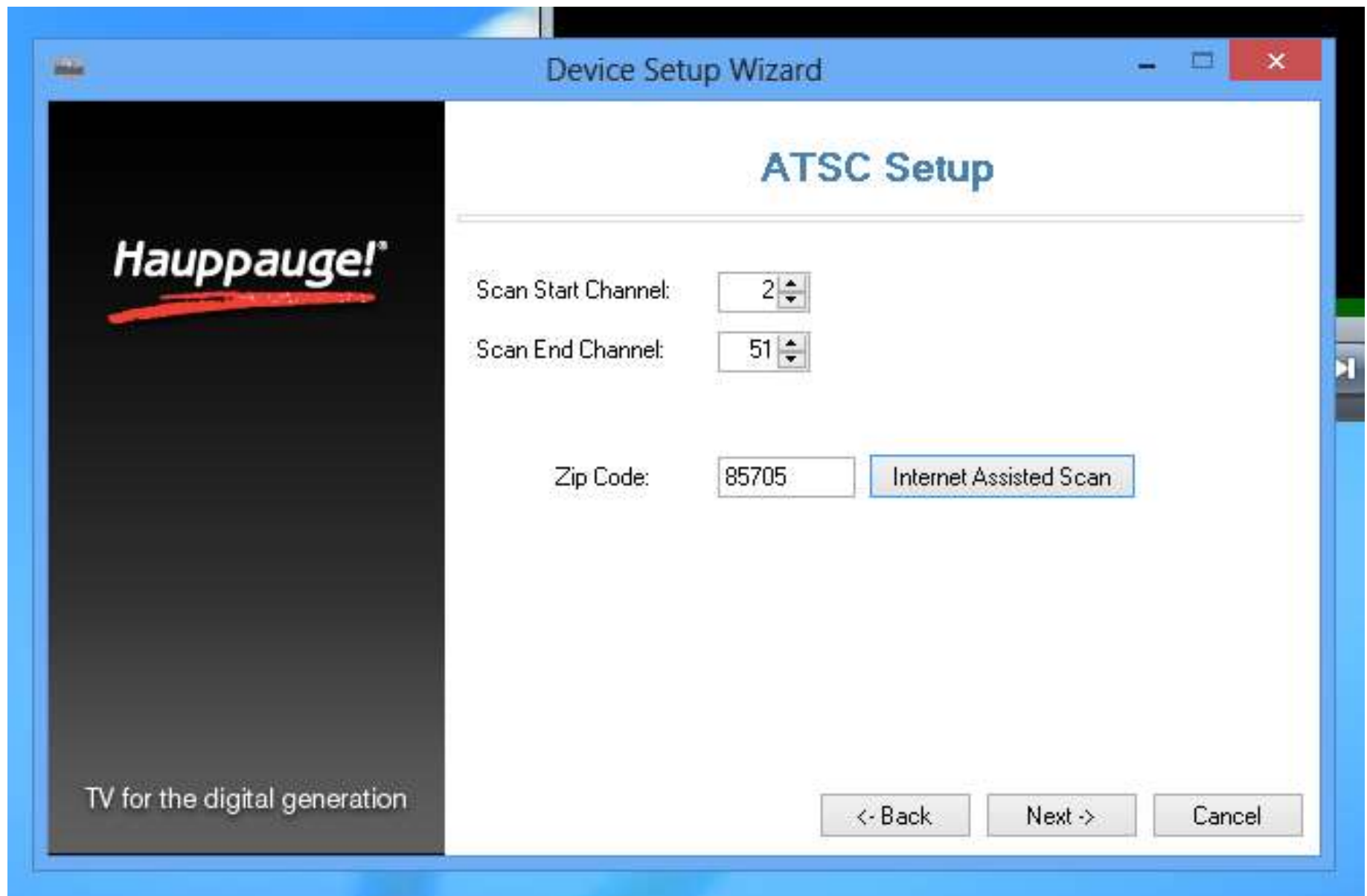


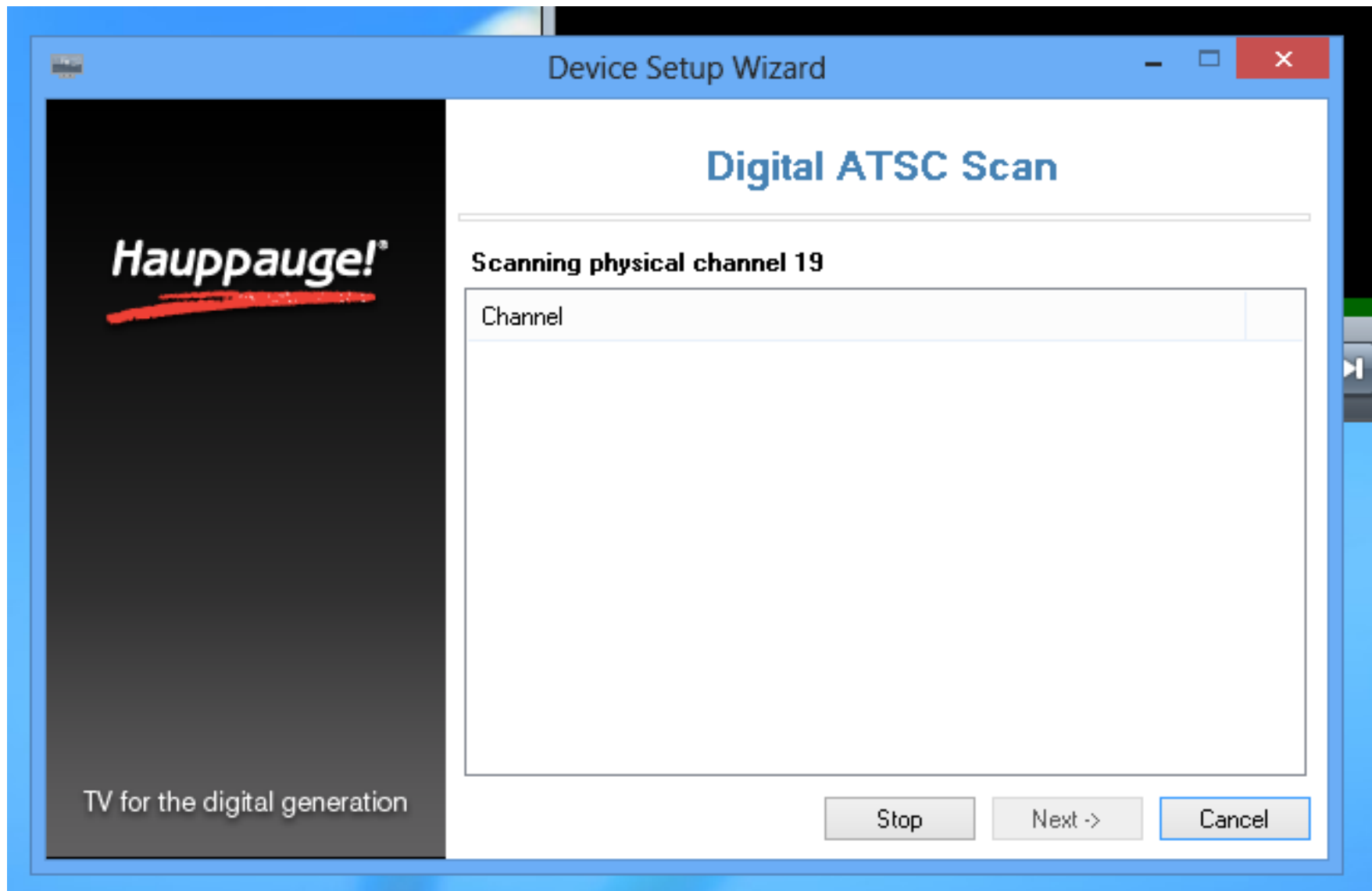


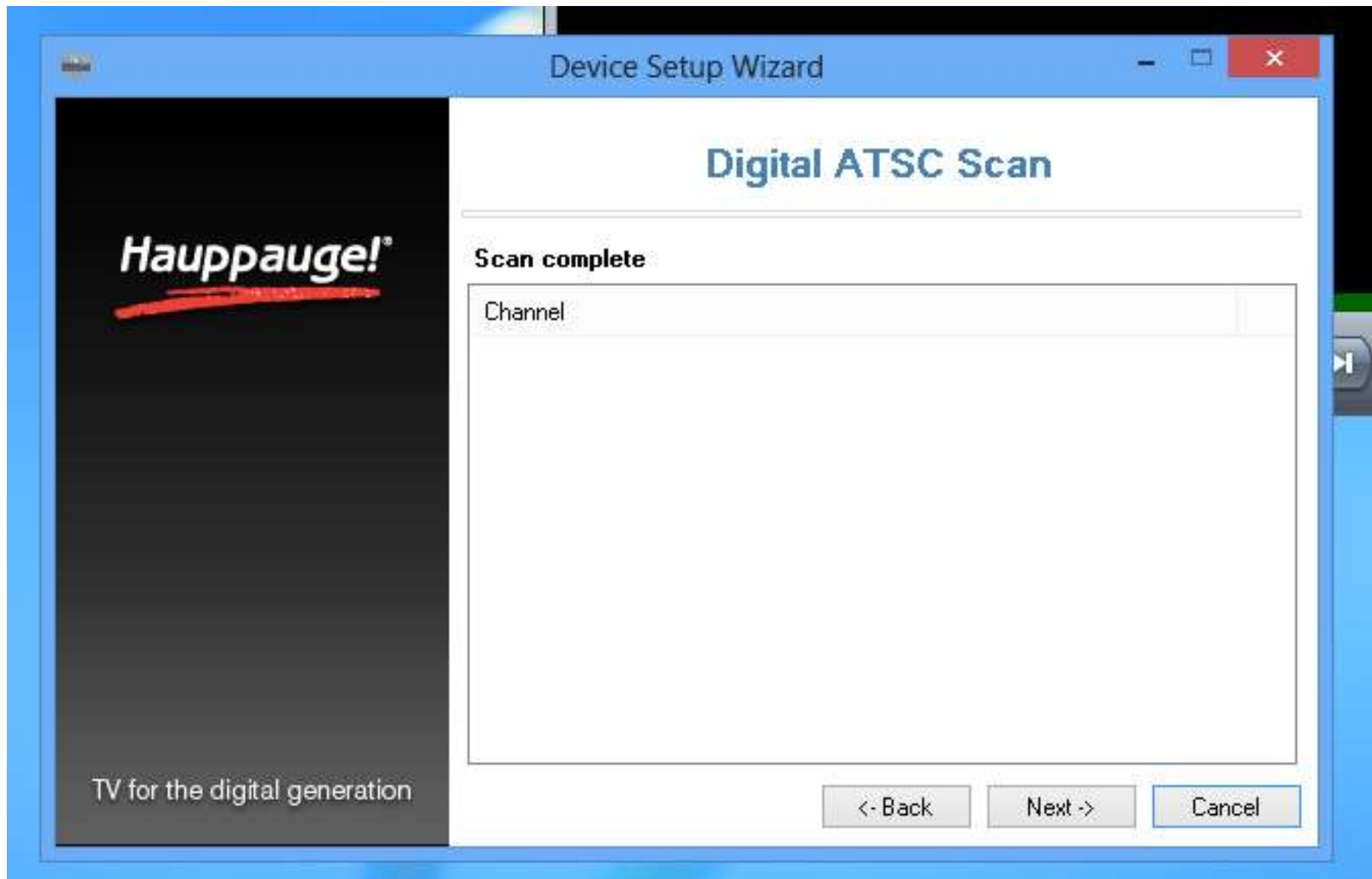












## Device Setup Wizard

### Digital ATSC Scan

**Hauppauge!**

TV for the digital generation

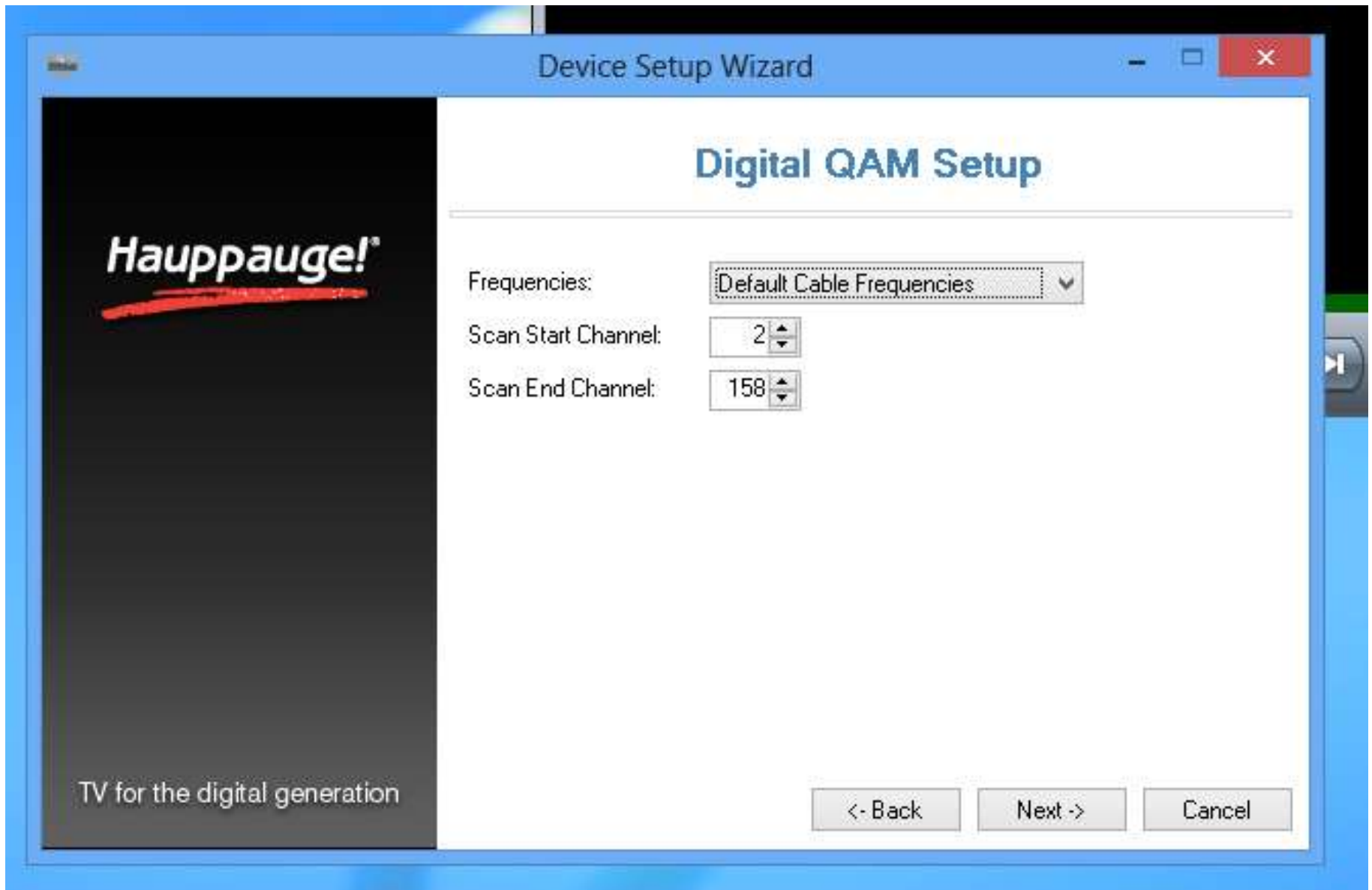
#### Scan complete

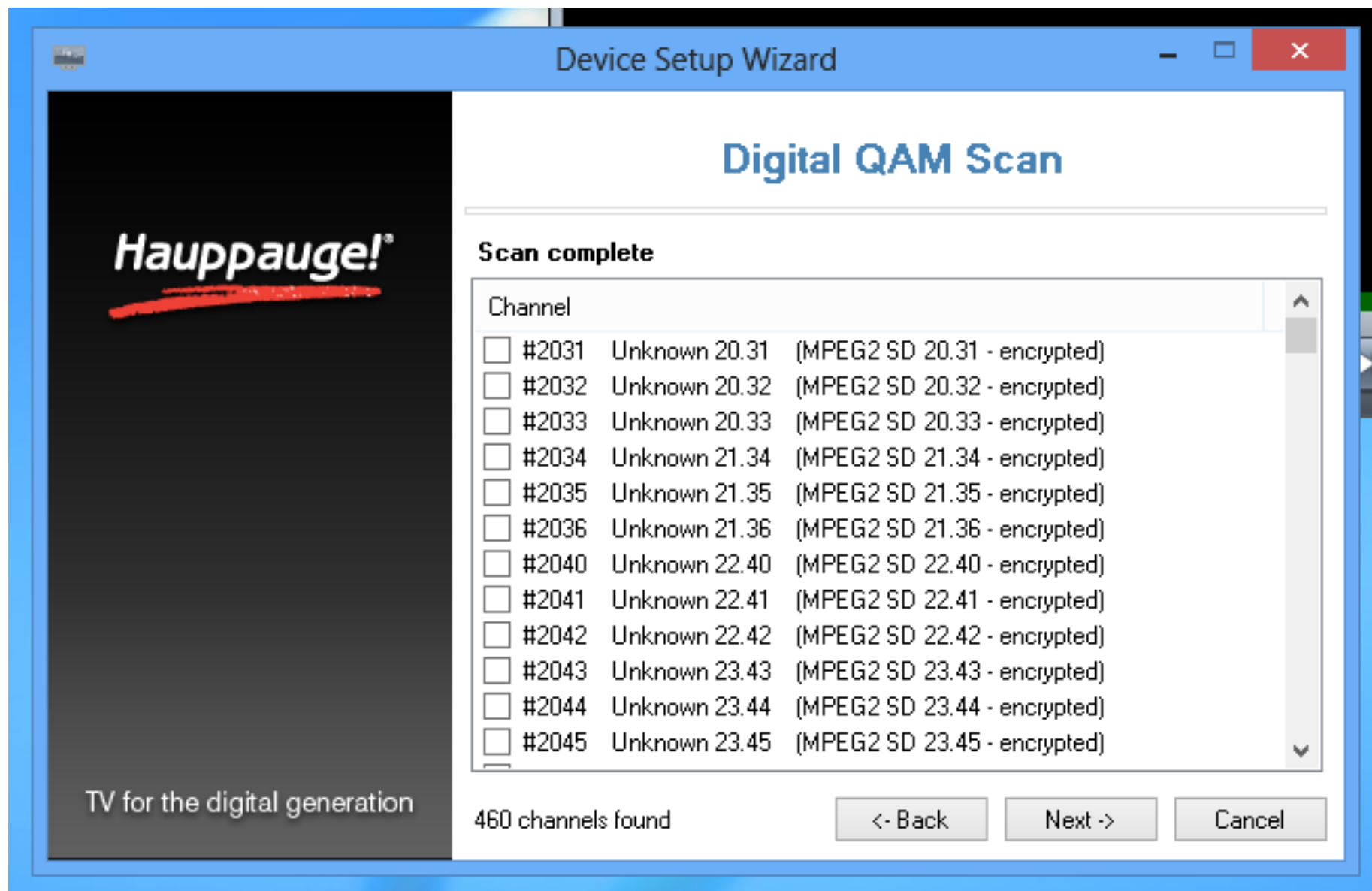
Channel				
<input checked="" type="checkbox"/>	#1401	40.1	KHRR-DT	(ATSC Digital Television)
<input checked="" type="checkbox"/>	#1402	40.2	Exitos	(ATSC Digital Television)
<input checked="" type="checkbox"/>	#1403	40.3	S.O.I.	(ATSC Digital Television)

<- Back

Next ->

Cancel





## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

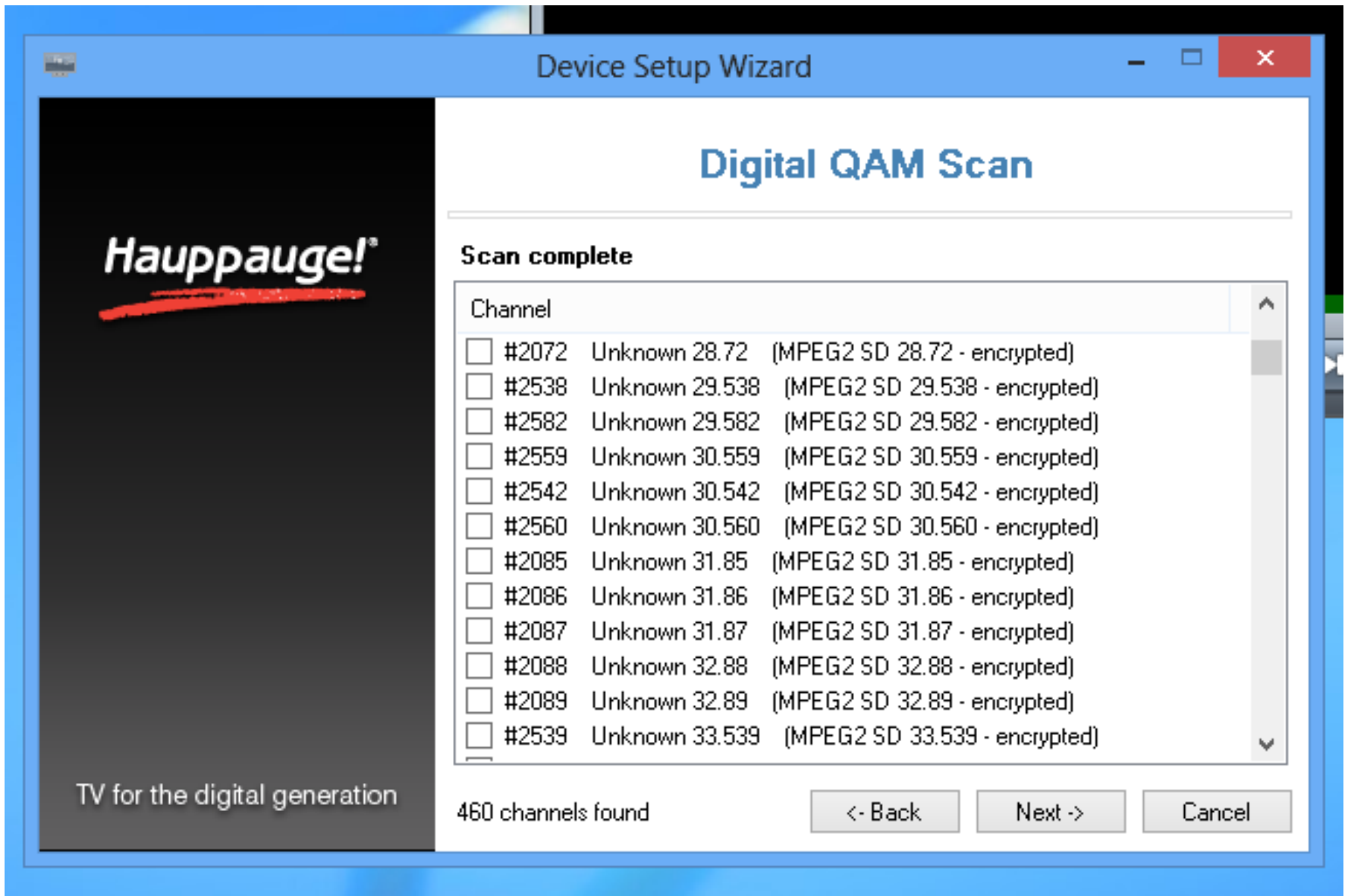
- ☐ #2046 Unknown 24.46 (MPEG2 SD 24.46 - encrypted)
- ☐ #2047 Unknown 24.47 (MPEG2 SD 24.47 - encrypted)
- ☐ #2048 Unknown 24.48 (MPEG2 SD 24.48 - encrypted)
- ☐ #2573 Unknown 25.573 (MPEG2 SD 25.573 - encrypted)
- ☐ #2534 Unknown 25.534 (MPEG2 SD 25.534 - encrypted)
- ☐ #2058 Unknown 26.58 (MPEG2 SD 26.58 - encrypted)
- ☐ #2059 Unknown 26.59 (MPEG2 SD 26.59 - encrypted)
- ☐ #2060 Unknown 26.60 (MPEG2 SD 26.60 - encrypted)
- ☐ #2118 Unknown 27.118 (MPEG2 SD 27.118 - encrypted)
- ☐ #2119 Unknown 27.119 (MPEG2 SD 27.119 - encrypted)
- ☐ #2120 Unknown 27.120 (MPEG2 SD 27.120 - encrypted)
- ☐ #2071 Unknown 28.71 (MPEG2 SD 28.71 - encrypted)

460 channels found

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Next ->

Cancel



## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

- ☐ #2571 Unknown 33.571 (MPEG2 SD 33.571 - encrypted)
- ☐ #2097 Unknown 34.97 (MPEG2 SD 34.97 - encrypted)
- ☐ #2098 Unknown 34.98 (MPEG2 SD 34.98 - encrypted)
- ☐ #2099 Unknown 34.99 (MPEG2 SD 34.99 - encrypted)
- ☐ #2100 Unknown 35.100 (MPEG2 SD 35.100 - encrypted)
- ☐ #2101 Unknown 35.101 (MPEG2 SD 35.101 - encrypted)
- ☐ #2102 Unknown 35.102 (MPEG2 SD 35.102 - encrypted)
- ☐ #2001 Unknown 36.1 (MPEG2 SD 36.1 - encrypted)
- ☐ #2002 Unknown 36.2 (MPEG2 SD 36.2 - encrypted)
- ☐ #2000 Unknown 37.1 (MPEG2 SD 37.1 - encrypted)
- ☐ #2003 Unknown 37.2 (MPEG2 SD 37.2 - encrypted)
- ☐ #2004 Unknown 38.1 (MPEG2 SD 38.1 - encrypted)

460 channels found

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Cancel

## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

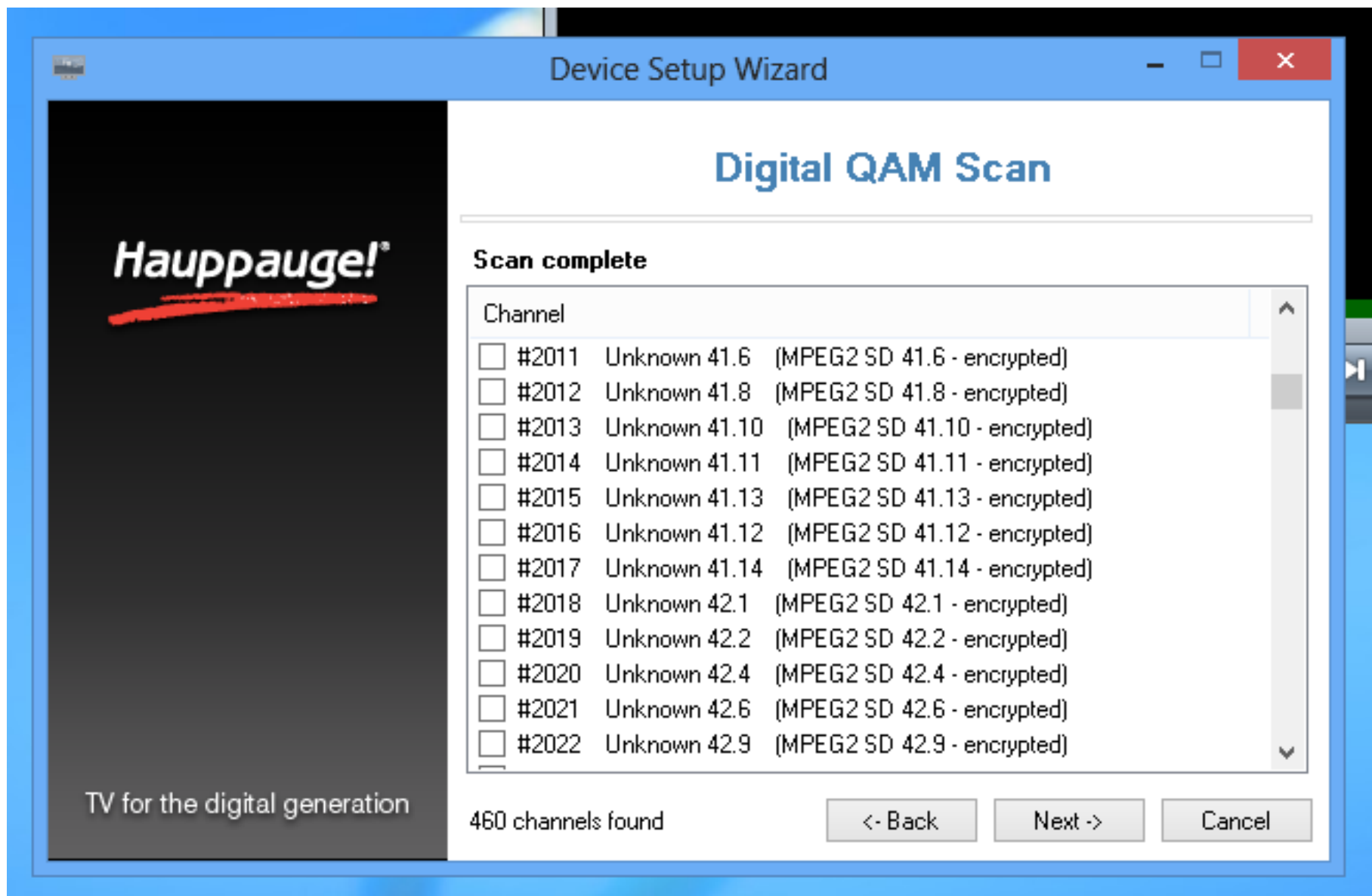
Channel			
<input type="checkbox"/>	#2657	Unknown 39.657	(MPEG2 SD 39.657 - encrypted)
<input type="checkbox"/>	#2658	Unknown 39.658	(MPEG2 SD 39.658 - encrypted)
<input checked="" type="checkbox"/>	#2209	Unknown 39.209	(MPEG2 SD 39.209)
<input type="checkbox"/>	#2284	Unknown 40.284	(MPEG2 SD 40.284 - encrypted)
<input type="checkbox"/>	#2285	Unknown 40.285	(MPEG2 SD 40.285 - encrypted)
<input type="checkbox"/>	#2282	Unknown 40.282	(MPEG2 SD 40.282 - encrypted)
<input checked="" type="checkbox"/>	#2005	Unknown 40.1	(MPEG2 SD 40.1)
<input type="checkbox"/>	#2006	Unknown 41.1	(MPEG2 SD 41.1 - encrypted)
<input type="checkbox"/>	#2007	Unknown 41.2	(MPEG2 SD 41.2 - encrypted)
<input type="checkbox"/>	#2008	Unknown 41.3	(MPEG2 SD 41.3 - encrypted)
<input type="checkbox"/>	#2009	Unknown 41.4	(MPEG2 SD 41.4 - encrypted)
<input type="checkbox"/>	#2010	Unknown 41.5	(MPEG2 SD 41.5 - encrypted)

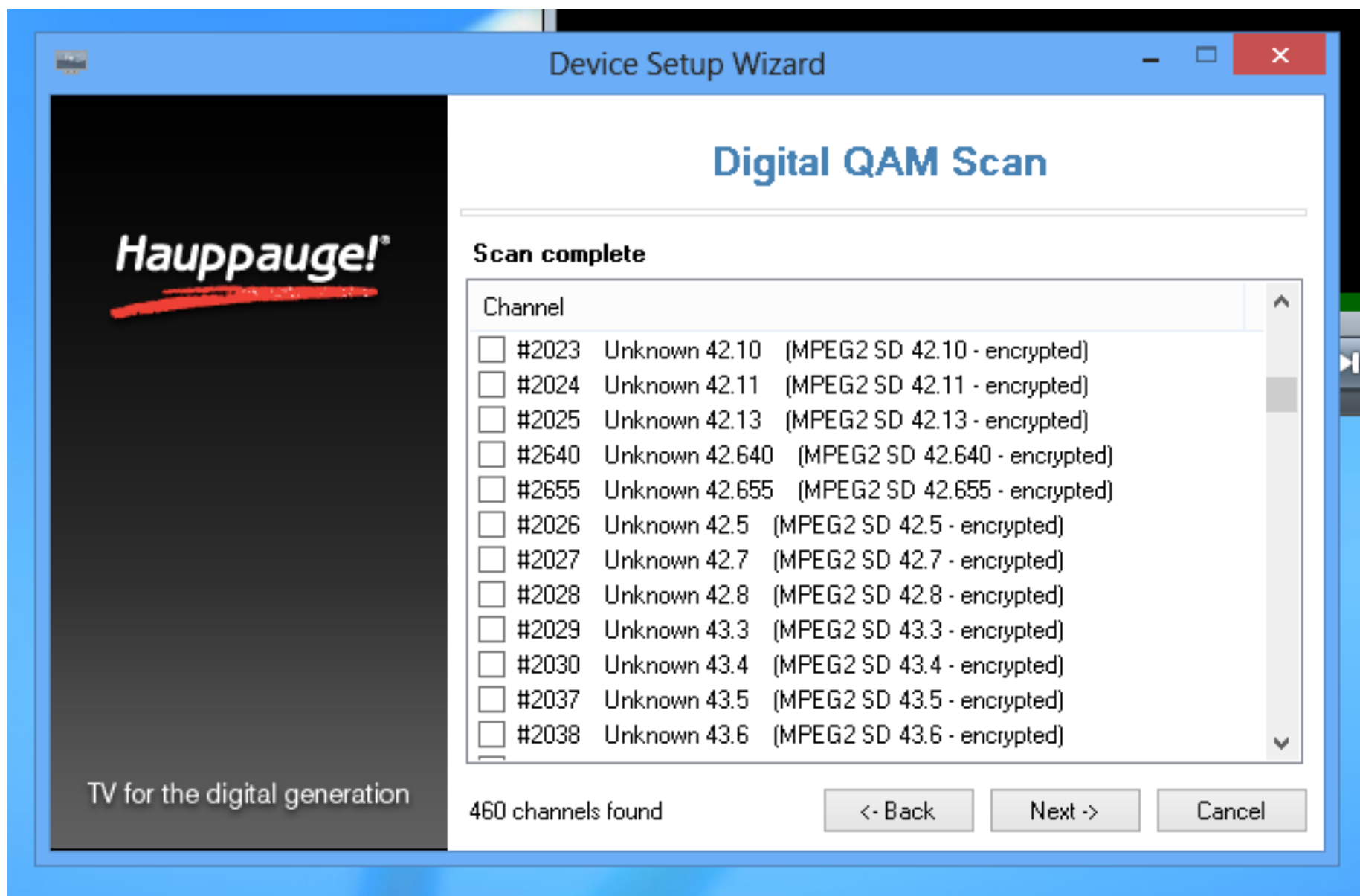
460 channels found

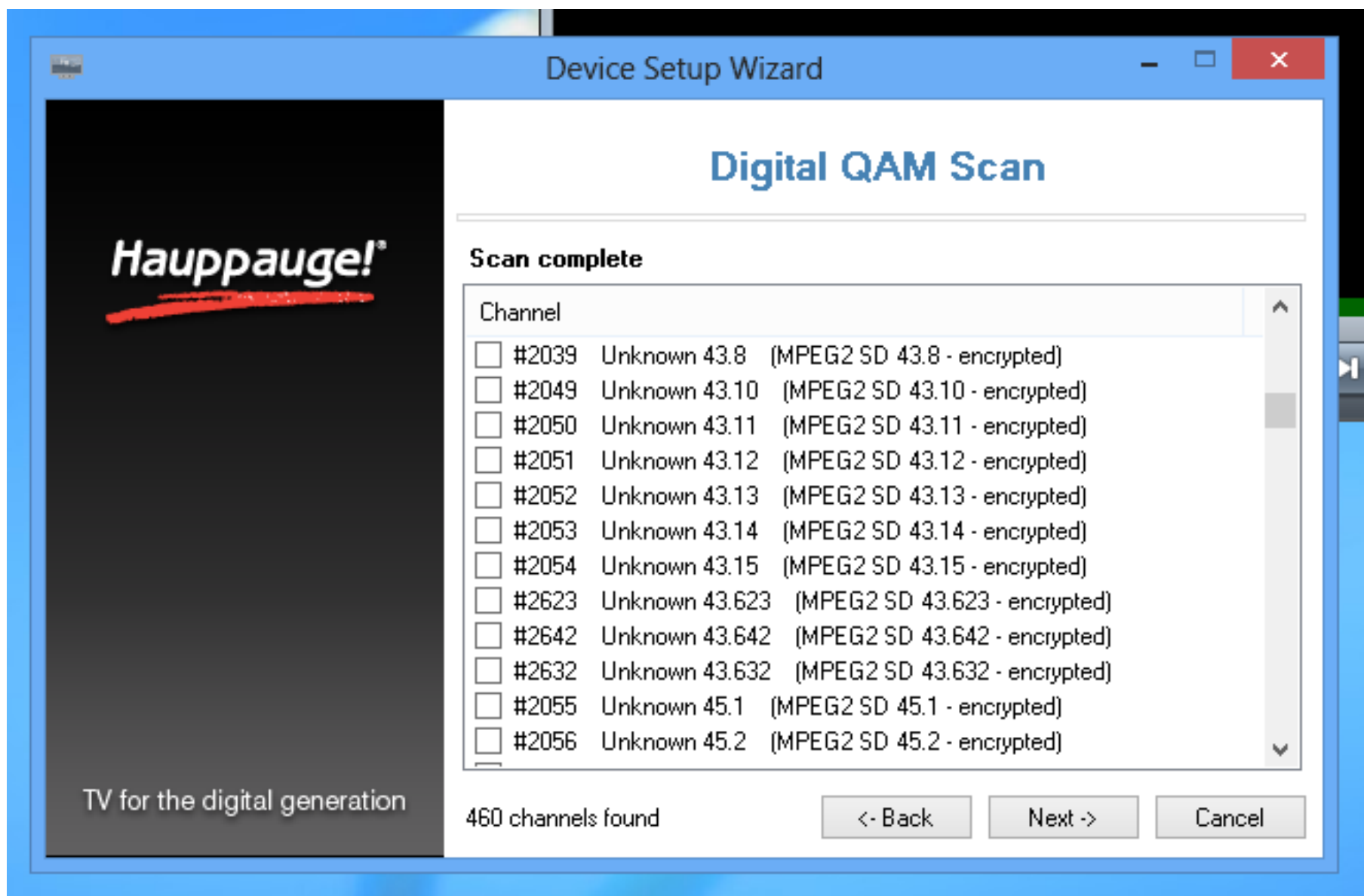
<- Back

Next ->

Cancel







## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

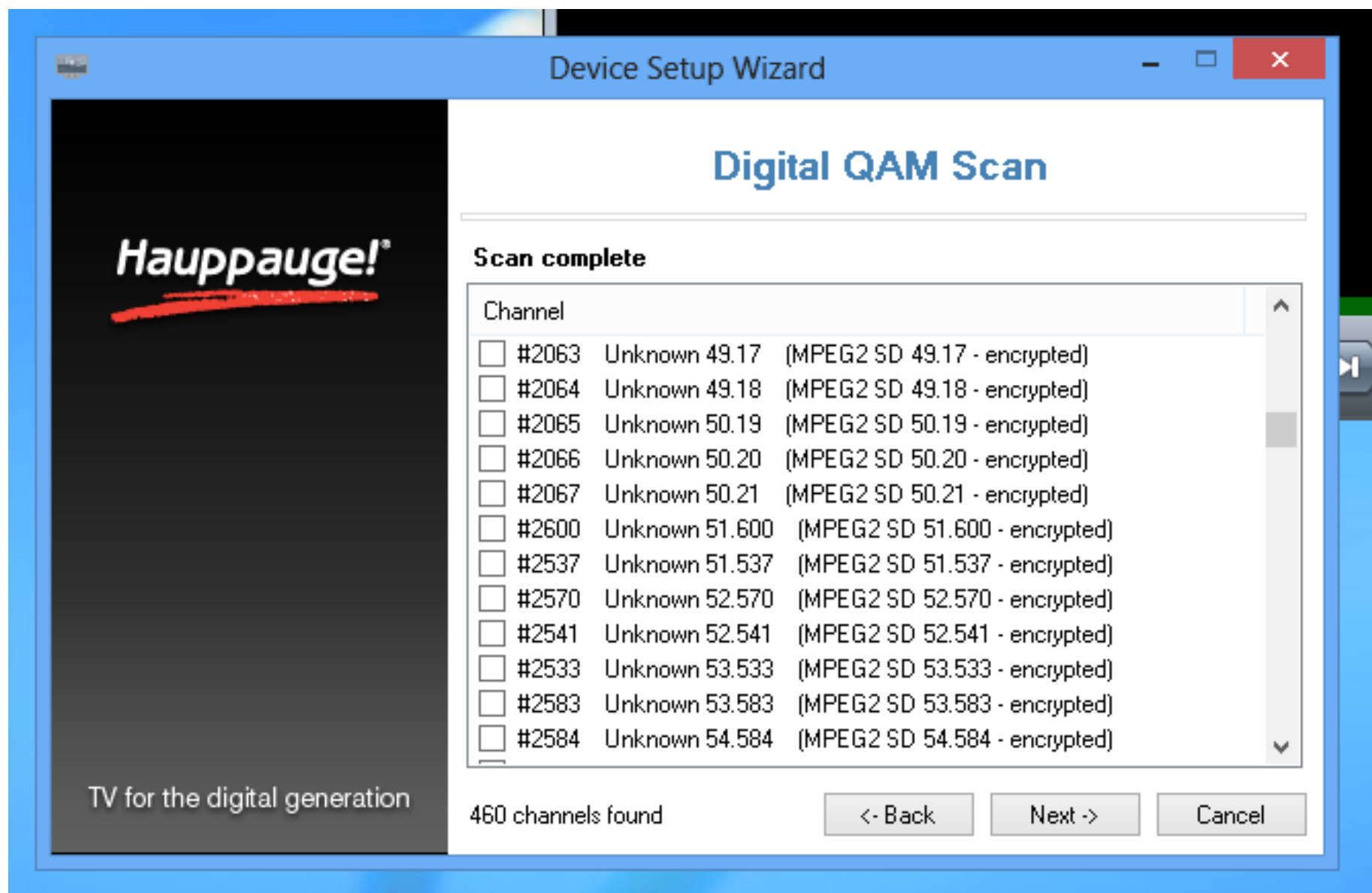
- ☐ #2057 Unknown 46.1 (MPEG2 SD 46.1 - encrypted)
- ☐ #2061 Unknown 46.2 (MPEG2 SD 46.2 - encrypted)
- ☐ #3814 Unknown 48.1814 (MPEG2 SD 48.1814 - encrypted)
- ☐ #3803 Unknown 48.1803 (MPEG2 SD 48.1803 - encrypted)
- ☐ #3805 Unknown 48.1805 (MPEG2 SD 48.1805 - encrypted)
- ☐ #3807 Unknown 48.1807 (MPEG2 SD 48.1807 - encrypted)
- ☐ #3808 Unknown 48.1808 (MPEG2 SD 48.1808 - encrypted)
- ☐ #3810 Unknown 48.1810 (MPEG2 SD 48.1810 - encrypted)
- ☐ #3811 Unknown 48.1811 (MPEG2 SD 48.1811 - encrypted)
- ☐ #3812 Unknown 48.1812 (MPEG2 SD 48.1812 - encrypted)
- ☐ #3813 Unknown 48.1813 (MPEG2 SD 48.1813 - encrypted)
- ☐ #2062 Unknown 49.16 (MPEG2 SD 49.16 - encrypted)

460 channels found

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Cancel



## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

<input type="checkbox"/>	#2540	Unknown 54.540	(MPEG2 SD 54.540 - encrypted)
<input type="checkbox"/>	#2536	Unknown 55.536	(MPEG2 SD 55.536 - encrypted)
<input type="checkbox"/>	#2532	Unknown 55.532	(MPEG2 SD 55.532 - encrypted)
<input type="checkbox"/>	#2535	Unknown 56.535	(MPEG2 SD 56.535 - encrypted)
<input checked="" type="checkbox"/>	#2208	Unknown 56.208	(MPEG2 SD 56.208)
<input checked="" type="checkbox"/>	#2198	Unknown 56.198	(MPEG2 SD 56.198)
<input type="checkbox"/>	#2248	Unknown 57.248	(MPEG2 SD 57.248 - encrypted)
<input type="checkbox"/>	#2221	Unknown 57.221	(MPEG2 SD 57.221 - encrypted)
<input type="checkbox"/>	#2222	Unknown 57.222	(MPEG2 SD 57.222 - encrypted)
<input type="checkbox"/>	#2217	Unknown 58.217	(MPEG2 SD 58.217 - encrypted)
<input type="checkbox"/>	#2250	Unknown 58.250	(MPEG2 SD 58.250 - encrypted)
<input type="checkbox"/>	#2234	Unknown 58.234	(MPEG2 SD 58.234 - encrypted)

460 channels found

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Next >

Cancel

## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

- |                          |       |                |                               |
|--------------------------|-------|----------------|-------------------------------|
| <input type="checkbox"/> | #2246 | Unknown 59.246 | (MPEG2 SD 59.246 - encrypted) |
| <input type="checkbox"/> | #2247 | Unknown 59.247 | (MPEG2 SD 59.247 - encrypted) |
| <input type="checkbox"/> | #2242 | Unknown 59.242 | (MPEG2 SD 59.242 - encrypted) |
| <input type="checkbox"/> | #2256 | Unknown 60.256 | (MPEG2 SD 60.256 - encrypted) |
| <input type="checkbox"/> | #2240 | Unknown 60.240 | (MPEG2 SD 60.240 - encrypted) |
| <input type="checkbox"/> | #2255 | Unknown 60.255 | (MPEG2 SD 60.255 - encrypted) |
| <input type="checkbox"/> | #2598 | Unknown 61.598 | (MPEG2 SD 61.598 - encrypted) |
| <input type="checkbox"/> | #2283 | Unknown 61.283 | (MPEG2 SD 61.283 - encrypted) |
| <input type="checkbox"/> | #2103 | Unknown 61.103 | (MPEG2 SD 61.103 - encrypted) |
| <input type="checkbox"/> | #2068 | Unknown 67.7   | (MPEG2 SD 67.7 - encrypted)   |
| <input type="checkbox"/> | #2069 | Unknown 68.3   | (MPEG2 SD 68.3 - encrypted)   |
| <input type="checkbox"/> | #2070 | Unknown 69.6   | (MPEG2 SD 69.6 - encrypted)   |

460 channels found

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Next ->

Cancel

## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel		
<input type="checkbox"/>	#2073	Unknown 70.5 (MPEG2 SD 70.5 - encrypted)
<input type="checkbox"/>	#2074	Unknown 80.5 (MPEG2 SD 80.5 - encrypted)
<input type="checkbox"/>	#2075	Unknown 81.10 (MPEG2 SD 81.10 - encrypted)
<input type="checkbox"/>	#2076	Unknown 81.3 (MPEG2 SD 81.3 - encrypted)
<input type="checkbox"/>	#2077	Unknown 82.8 (MPEG2 SD 82.8 - encrypted)
<input type="checkbox"/>	#2078	Unknown 83.11 (MPEG2 SD 83.11 - encrypted)
<input type="checkbox"/>	#2079	Unknown 83.7 (MPEG2 SD 83.7 - encrypted)
<input checked="" type="checkbox"/>	#2080	Unknown 84.2 (MPEG2 SD 84.2)
<input type="checkbox"/>	#2081	Unknown 84.1 (MPEG2 SD 84.1 - encrypted)
<input checked="" type="checkbox"/>	#2082	Unknown 93.34 (MPEG2 SD 93.34)
<input checked="" type="checkbox"/>	#2083	Unknown 93.33 (MPEG2 SD 93.33)
<input checked="" type="checkbox"/>	#2084	Unknown 93.29 (MPEG2 SD 93.29)

460 channels found

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Next ->

Cancel

## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

<input checked="" type="checkbox"/>	#2090	Unknown 93.28	(MPEG2 SD 93.28)
<input checked="" type="checkbox"/>	#2091	Unknown 93.35	(MPEG2 SD 93.35)
<input type="checkbox"/>	#2092	Unknown 93.30	(MPEG2 SD 93.30 - encrypted)
<input type="checkbox"/>	#2093	Unknown 93.36	(MPEG2 SD 93.36 - encrypted)
<input type="checkbox"/>	#2094	Unknown 93.37	(MPEG2 SD 93.37 - encrypted)
<input type="checkbox"/>	#2095	Unknown 93.39	(MPEG2 SD 93.39 - encrypted)
<input type="checkbox"/>	#2096	Unknown 94.40	(MPEG2 SD 94.40 - encrypted)
<input type="checkbox"/>	#2104	Unknown 94.41	(MPEG2 SD 94.41 - encrypted)
<input type="checkbox"/>	#2105	Unknown 94.42	(MPEG2 SD 94.42 - encrypted)
<input type="checkbox"/>	#2106	Unknown 94.43	(MPEG2 SD 94.43 - encrypted)
<input type="checkbox"/>	#2107	Unknown 94.44	(MPEG2 SD 94.44 - encrypted)
<input type="checkbox"/>	#2108	Unknown 94.45	(MPEG2 SD 94.45 - encrypted)

460 channels found

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Cancel

## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

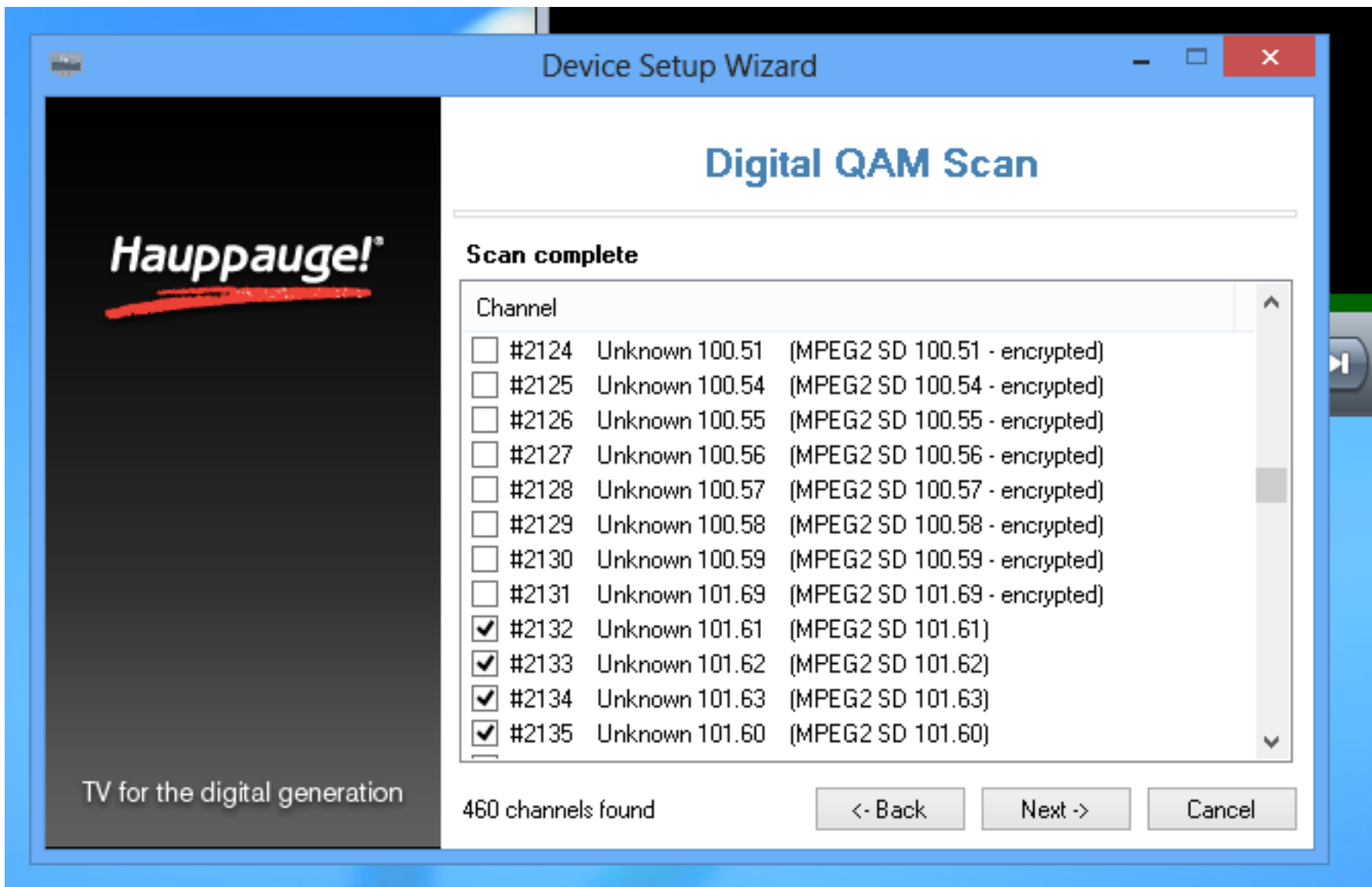
- |                          |       |                |                               |
|--------------------------|-------|----------------|-------------------------------|
| <input type="checkbox"/> | #2109 | Unknown 94.46  | (MPEG2 SD 94.46 - encrypted)  |
| <input type="checkbox"/> | #2110 | Unknown 94.47  | (MPEG2 SD 94.47 - encrypted)  |
| <input type="checkbox"/> | #2111 | Unknown 94.48  | (MPEG2 SD 94.48 - encrypted)  |
| <input type="checkbox"/> | #2112 | Unknown 94.21  | (MPEG2 SD 94.21 - encrypted)  |
| <input type="checkbox"/> | #2113 | Unknown 98.2   | (MPEG2 SD 98.2 - encrypted)   |
| <input type="checkbox"/> | #2114 | Unknown 99.31  | (MPEG2 SD 99.31 - encrypted)  |
| <input type="checkbox"/> | #2115 | Unknown 99.32  | (MPEG2 SD 99.32 - encrypted)  |
| <input type="checkbox"/> | #2116 | Unknown 99.25  | (MPEG2 SD 99.25 - encrypted)  |
| <input type="checkbox"/> | #2117 | Unknown 99.26  | (MPEG2 SD 99.26 - encrypted)  |
| <input type="checkbox"/> | #2121 | Unknown 100.52 | (MPEG2 SD 100.52 - encrypted) |
| <input type="checkbox"/> | #2122 | Unknown 100.53 | (MPEG2 SD 100.53 - encrypted) |
| <input type="checkbox"/> | #2123 | Unknown 100.50 | (MPEG2 SD 100.50 - encrypted) |

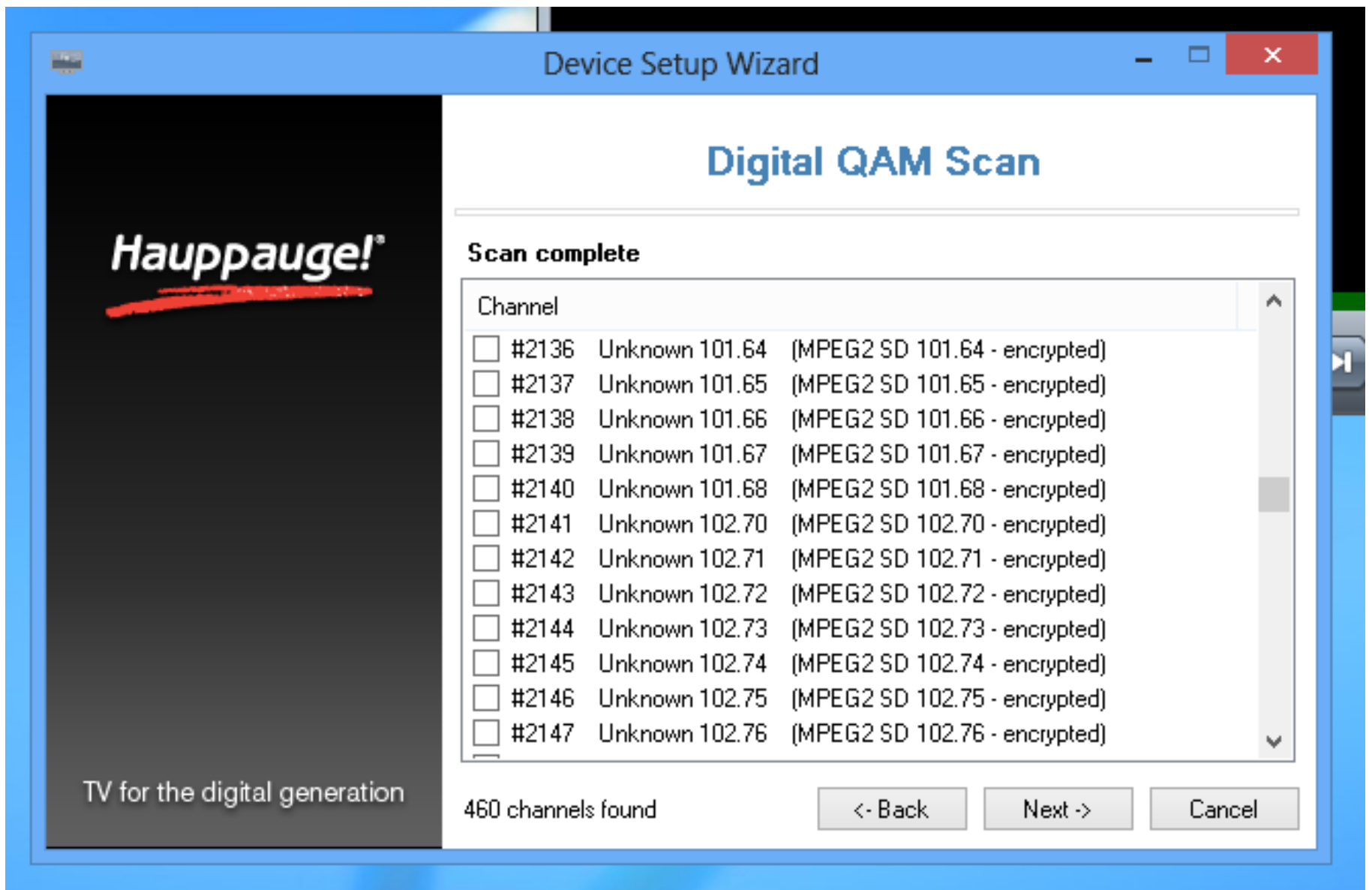
460 channels found

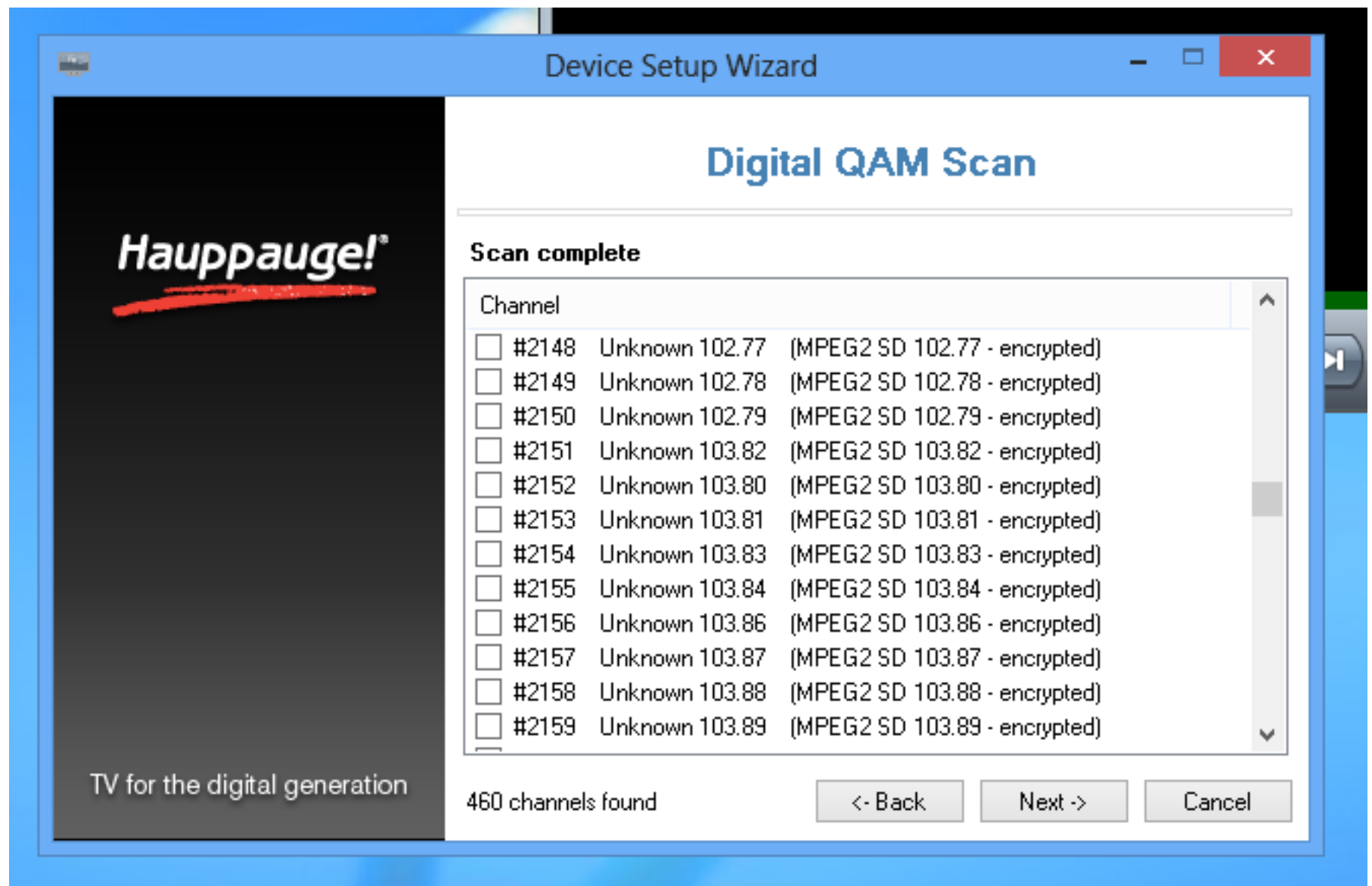
<- Back

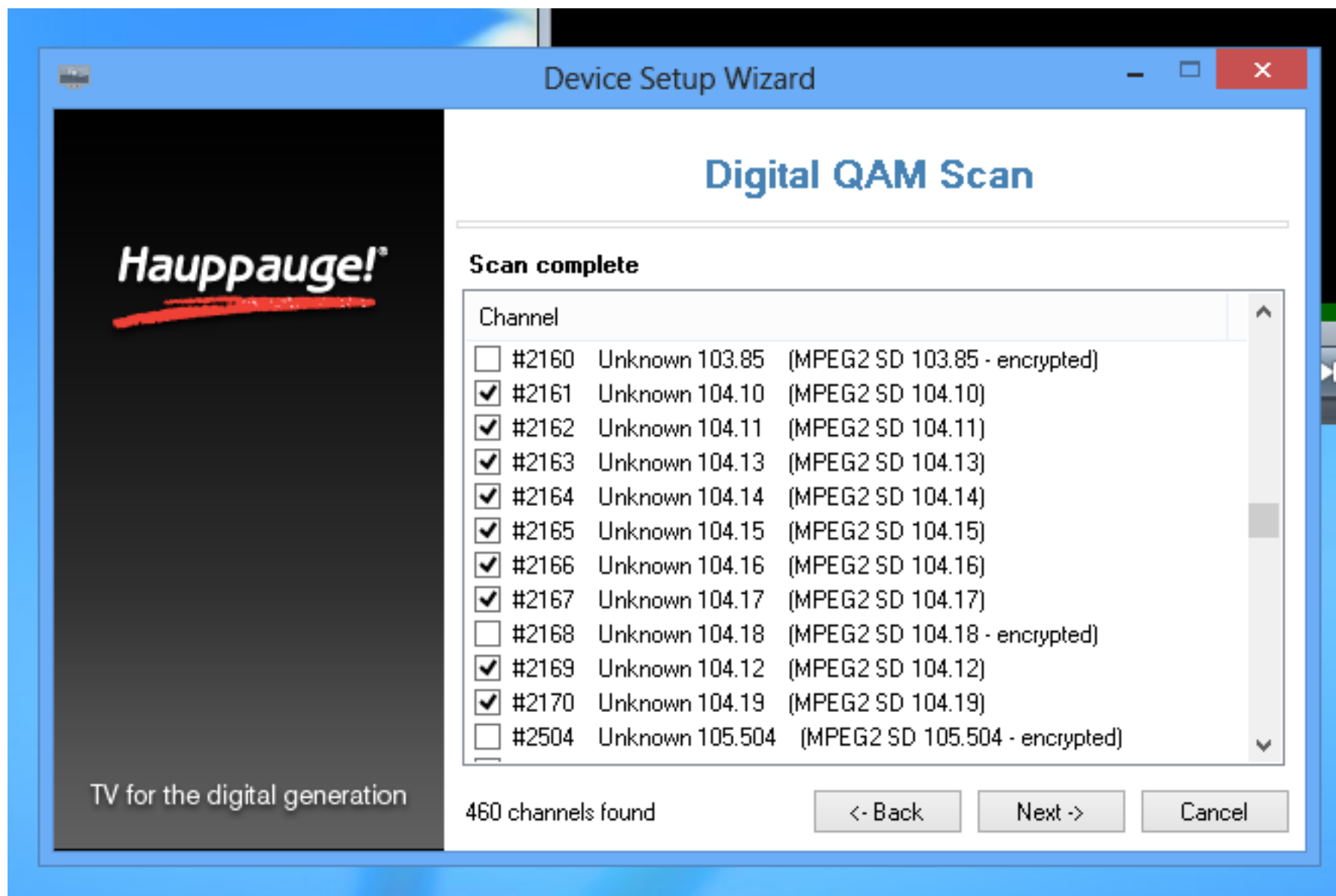
Next ->

Cancel









## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

- ☒ #2171 Unknown 105.20 (MPEG2 SD 105.20)
- ☐ #2172 Unknown 105.13 (MPEG2 SD 105.13 - encrypted)
- ☐ #2173 Unknown 105.14 (MPEG2 SD 105.14 - encrypted)
- ☐ #2174 Unknown 105.15 (MPEG2 SD 105.15 - encrypted)
- ☐ #2175 Unknown 105.16 (MPEG2 SD 105.16 - encrypted)
- ☐ #2176 Unknown 105.11 (MPEG2 SD 105.11 - encrypted)
- ☐ #2177 Unknown 105.12 (MPEG2 SD 105.12 - encrypted)
- ☒ #2178 Estrell (MPEG2 SD 106.3)
- ☒ #2179 KTTU-DT (MPEG2 SD 106.1)
- ☒ #2180 PBS-HD (MPEG2 SD 106.2)
- ☒ #2181 This (MPEG2 SD 107.4)
- ☒ #2182 Me TV (MPEG2 SD 107.7)

460 channels found

< Back

Next >

Cancel

## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

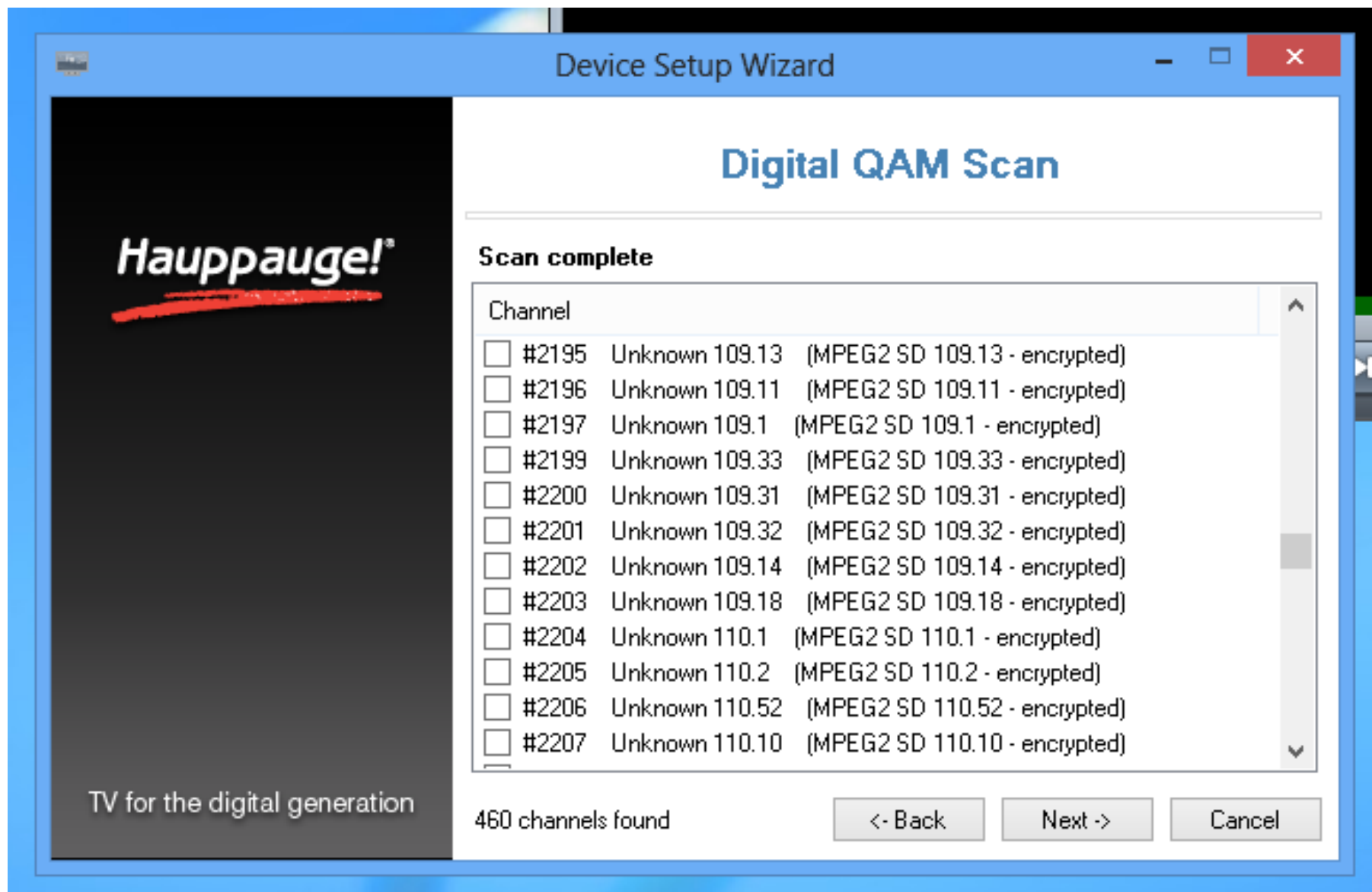
- ☒ #2183 KMSB-HD (MPEG2 SD 107.6)
- ☒ #2184 KOLD DT (MPEG2 SD 107.3)
- ☐ #2185 Unknown 108.1 (MPEG2 SD 108.1 - encrypted)
- ☐ #2186 Unknown 108.6 (MPEG2 SD 108.6 - encrypted)
- ☐ #2187 Unknown 108.26 (MPEG2 SD 108.26 - encrypted)
- ☐ #2188 Unknown 108.24 (MPEG2 SD 108.24 - encrypted)
- ☐ #2189 Unknown 108.7 (MPEG2 SD 108.7 - encrypted)
- ☐ #2190 Unknown 108.27 (MPEG2 SD 108.27 - encrypted)
- ☐ #2191 Unknown 108.44 (MPEG2 SD 108.44 - encrypted)
- ☐ #2192 Unknown 108.30 (MPEG2 SD 108.30 - encrypted)
- ☒ #2193 Unknown 108.2 (MPEG2 SD 108.2)
- ☐ #2194 Unknown 109.12 (MPEG2 SD 109.12 - encrypted)

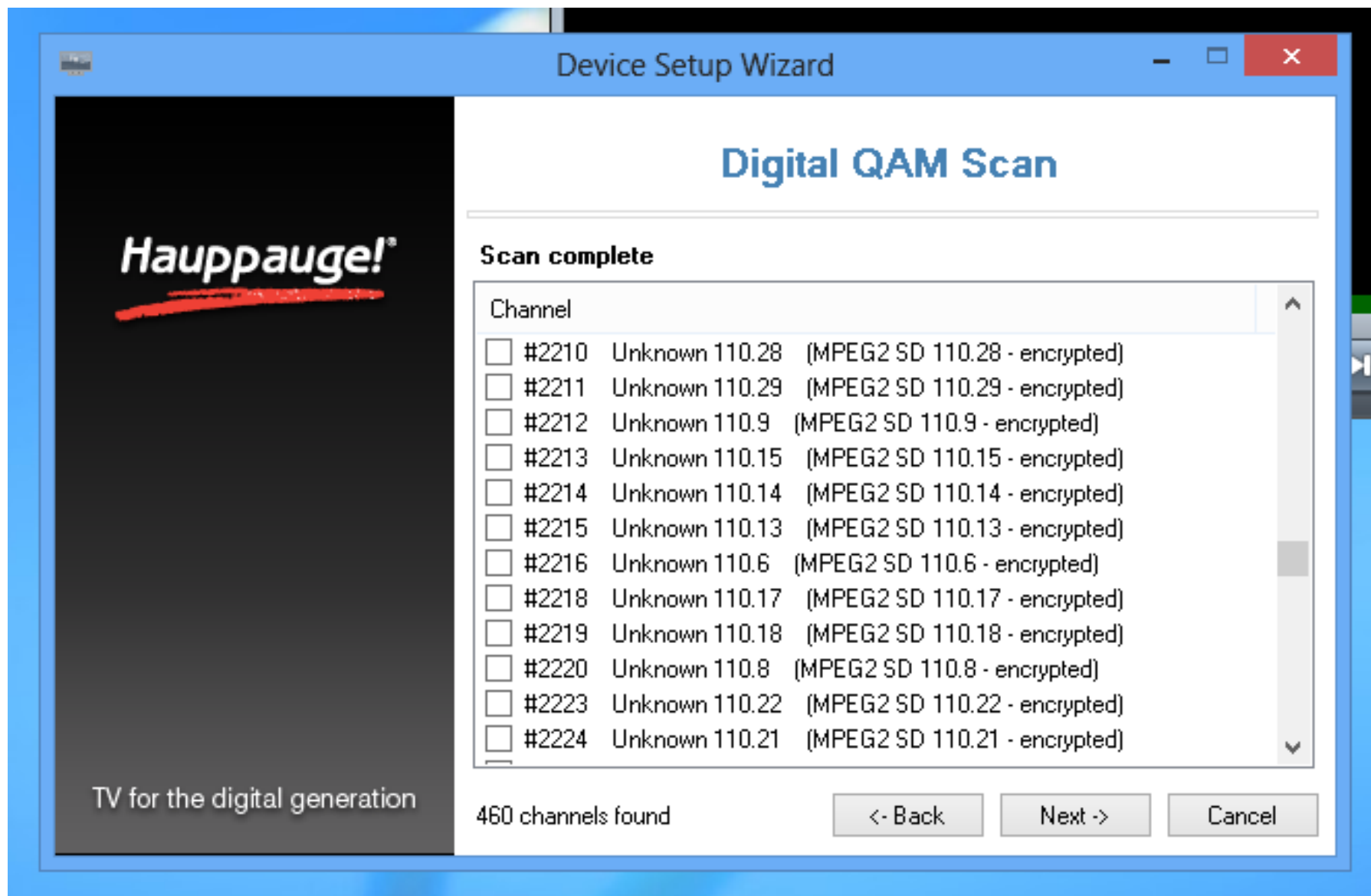
460 channels found

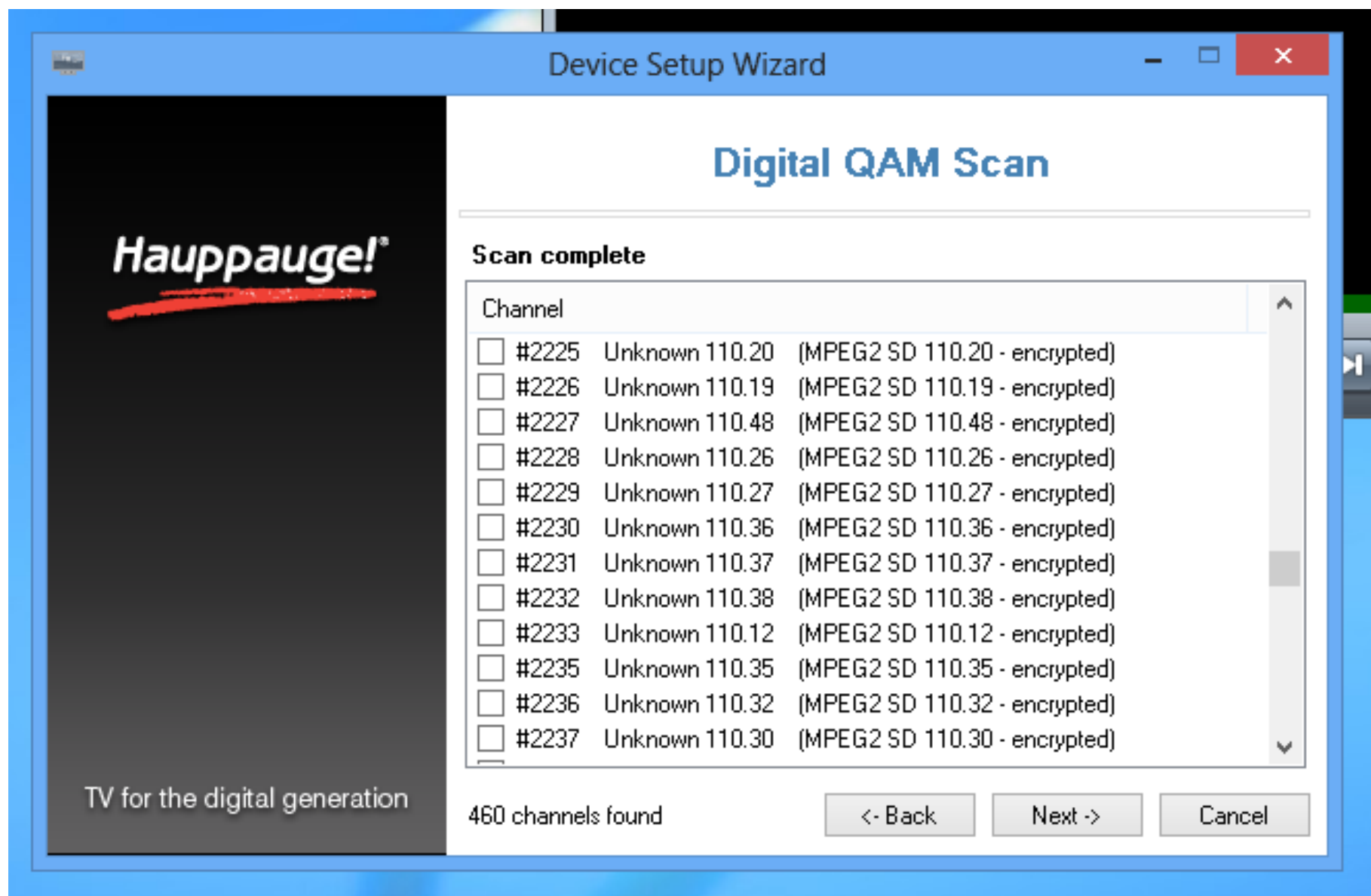
< Back

Next >

Cancel







## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel			
<input type="checkbox"/>	#2238	Unknown 110.31	(MPEG2 SD 110.31 - encrypted)
<input type="checkbox"/>	#2239	Unknown 110.46	(MPEG2 SD 110.46 - encrypted)
<input type="checkbox"/>	#2241	Unknown 110.40	(MPEG2 SD 110.40 - encrypted)
<input type="checkbox"/>	#2243	Unknown 110.7	(MPEG2 SD 110.7 - encrypted)
<input type="checkbox"/>	#2244	Unknown 110.16	(MPEG2 SD 110.16 - encrypted)
<input type="checkbox"/>	#2245	Unknown 110.3	(MPEG2 SD 110.3 - encrypted)
<input type="checkbox"/>	#2249	Unknown 110.23	(MPEG2 SD 110.23 - encrypted)
<input type="checkbox"/>	#2251	Unknown 110.47	(MPEG2 SD 110.47 - encrypted)
<input type="checkbox"/>	#2252	Unknown 110.24	(MPEG2 SD 110.24 - encrypted)
<input type="checkbox"/>	#2253	Unknown 110.11	(MPEG2 SD 110.11 - encrypted)
<input type="checkbox"/>	#2254	Unknown 110.45	(MPEG2 SD 110.45 - encrypted)
<input type="checkbox"/>	#2257	Unknown 110.5	(MPEG2 SD 110.5 - encrypted)

460 channels found

<- Back

Next ->

Cancel

## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

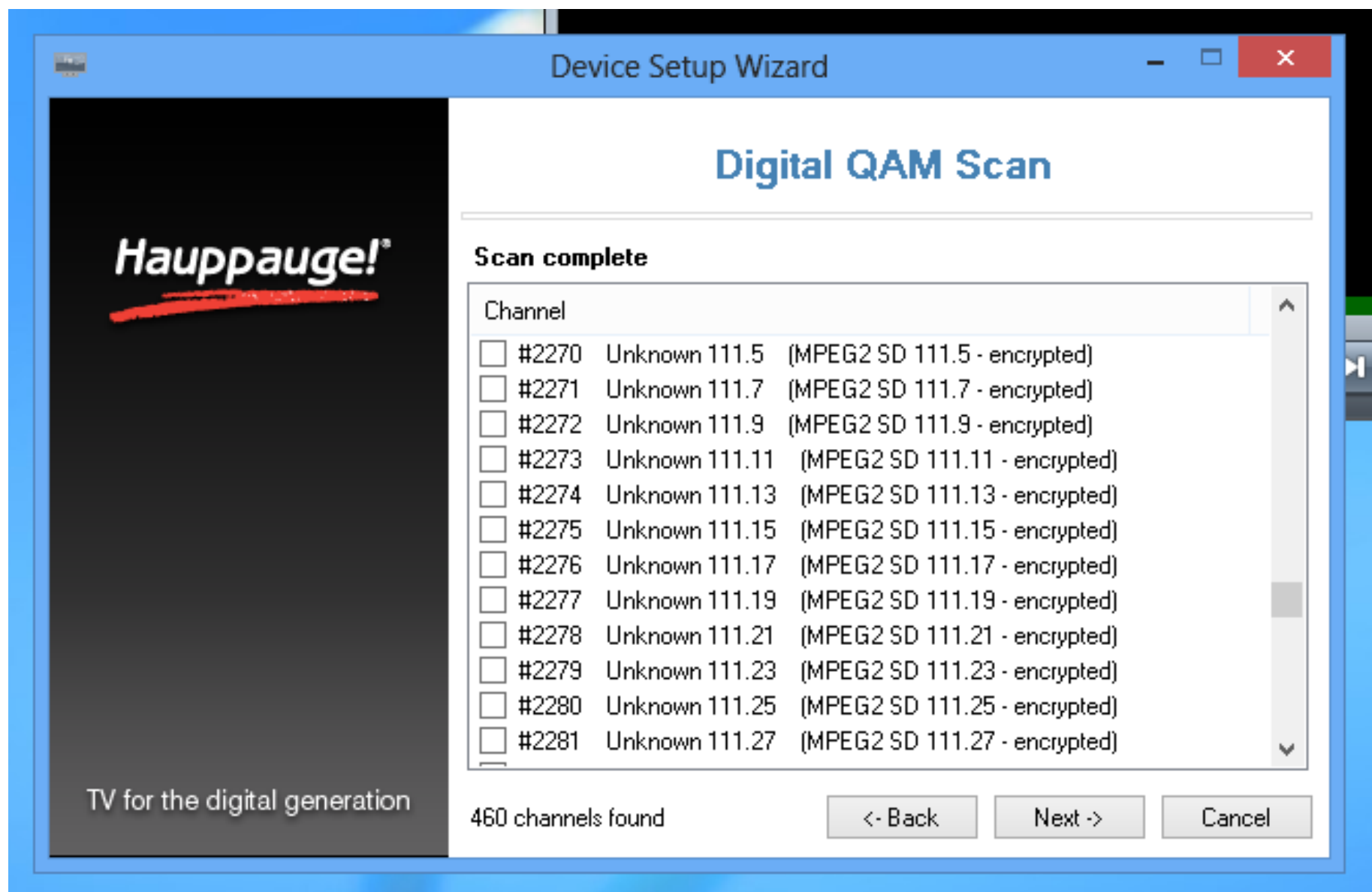
- |                          |       |                |                               |
|--------------------------|-------|----------------|-------------------------------|
| <input type="checkbox"/> | #2258 | Unknown 110.43 | (MPEG2 SD 110.43 - encrypted) |
| <input type="checkbox"/> | #2259 | Unknown 110.25 | (MPEG2 SD 110.25 - encrypted) |
| <input type="checkbox"/> | #2260 | Unknown 110.39 | (MPEG2 SD 110.39 - encrypted) |
| <input type="checkbox"/> | #2261 | Unknown 110.33 | (MPEG2 SD 110.33 - encrypted) |
| <input type="checkbox"/> | #2262 | Unknown 110.34 | (MPEG2 SD 110.34 - encrypted) |
| <input type="checkbox"/> | #2263 | Unknown 110.44 | (MPEG2 SD 110.44 - encrypted) |
| <input type="checkbox"/> | #2264 | Unknown 110.41 | (MPEG2 SD 110.41 - encrypted) |
| <input type="checkbox"/> | #2265 | Unknown 110.42 | (MPEG2 SD 110.42 - encrypted) |
| <input type="checkbox"/> | #2266 | Unknown 110.49 | (MPEG2 SD 110.49 - encrypted) |
| <input type="checkbox"/> | #2267 | Unknown 110.50 | (MPEG2 SD 110.50 - encrypted) |
| <input type="checkbox"/> | #2268 | Unknown 111.1  | (MPEG2 SD 111.1 - encrypted)  |
| <input type="checkbox"/> | #2269 | Unknown 111.3  | (MPEG2 SD 111.3 - encrypted)  |

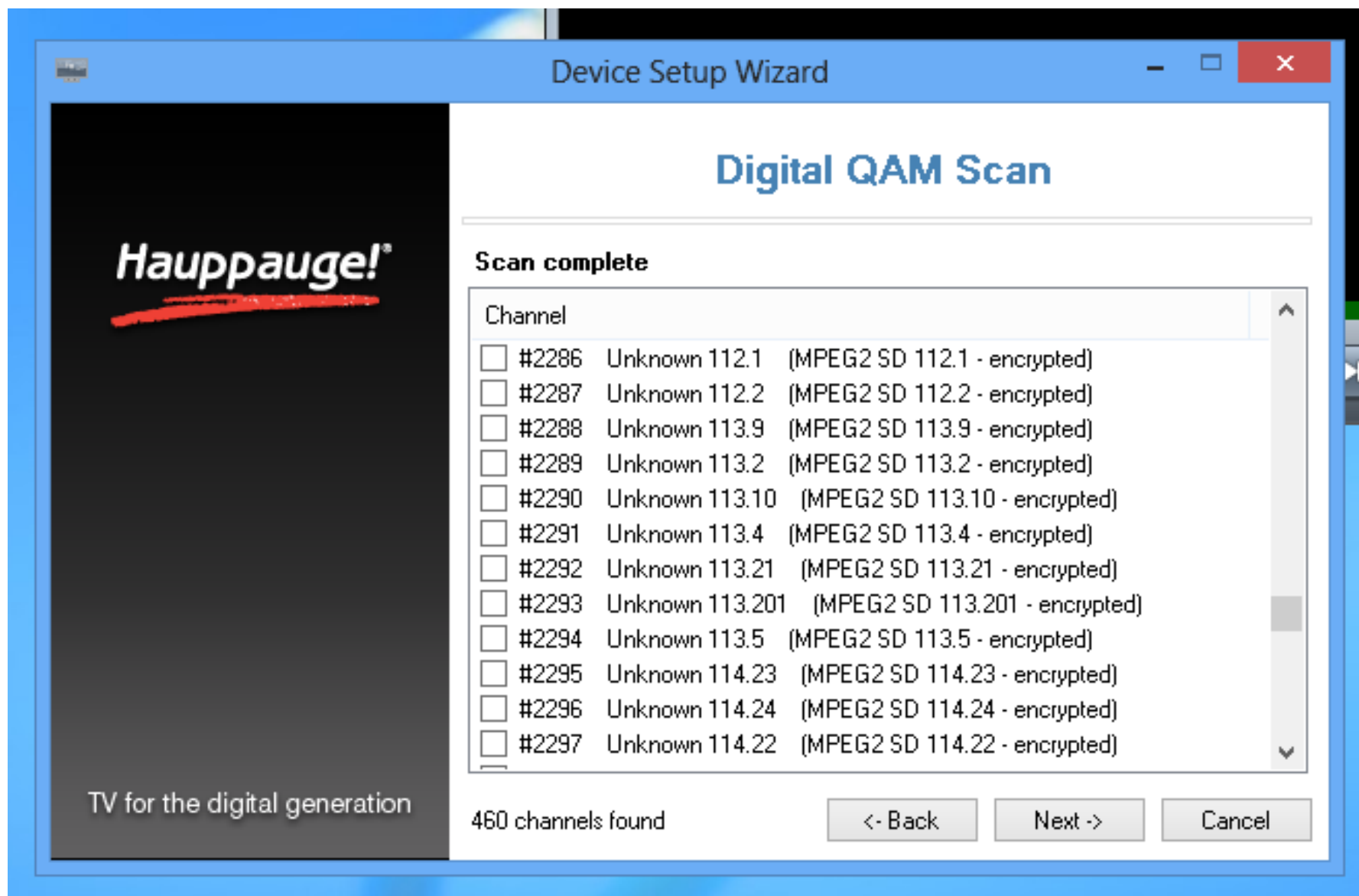
460 channels found

<- Back

Next ->

Cancel





## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

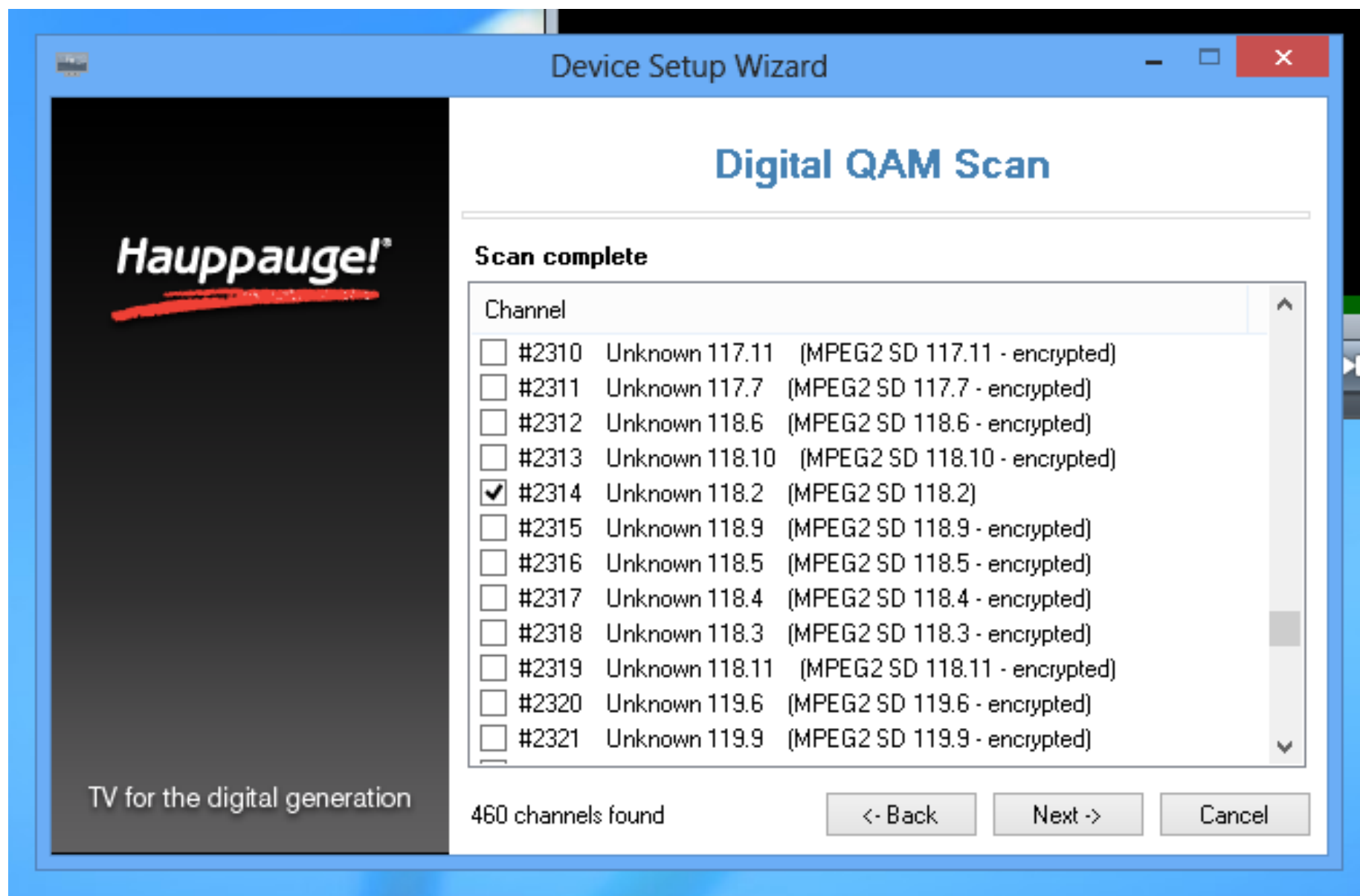
- ☐ #2298 Unknown 115.50 (MPEG2 SD 115.50 - encrypted)
- ☐ #2299 Unknown 115.49 (MPEG2 SD 115.49 - encrypted)
- ☐ #2300 Unknown 115.51 (MPEG2 SD 115.51 - encrypted)
- ☐ #2301 Unknown 117.2 (MPEG2 SD 117.2 - encrypted)
- ☐ #2302 Unknown 117.4 (MPEG2 SD 117.4 - encrypted)
- ☐ #2303 Unknown 117.5 (MPEG2 SD 117.5 - encrypted)
- ☐ #2304 Unknown 117.6 (MPEG2 SD 117.6 - encrypted)
- ☐ #2305 Unknown 117.9 (MPEG2 SD 117.9 - encrypted)
- ☐ #2306 Unknown 117.8 (MPEG2 SD 117.8 - encrypted)
- ☐ #2307 Unknown 117.1 (MPEG2 SD 117.1 - encrypted)
- ☐ #2308 Unknown 117.3 (MPEG2 SD 117.3 - encrypted)
- ☐ #2309 Unknown 117.10 (MPEG2 SD 117.10 - encrypted)

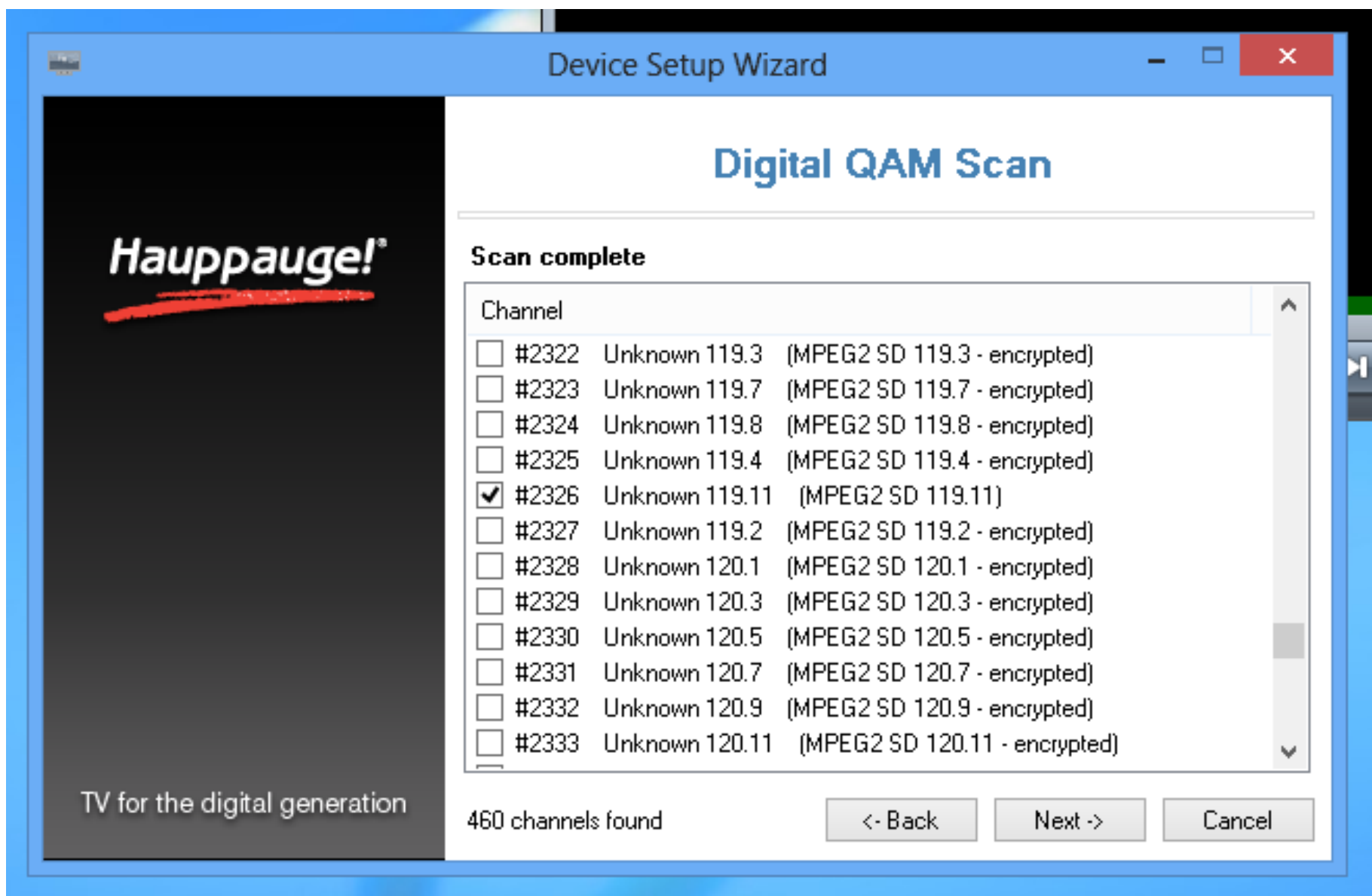
460 channels found

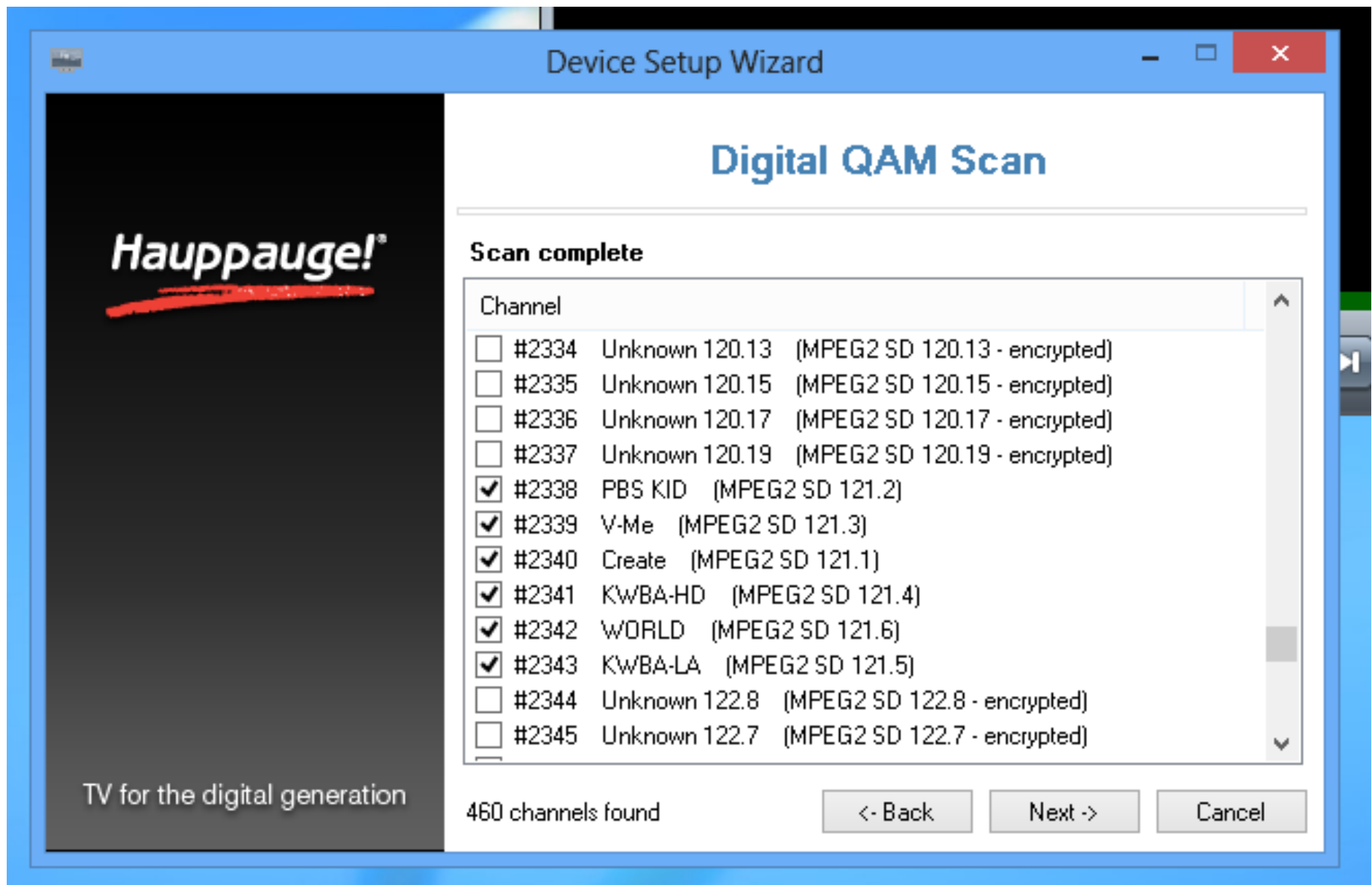
< Back

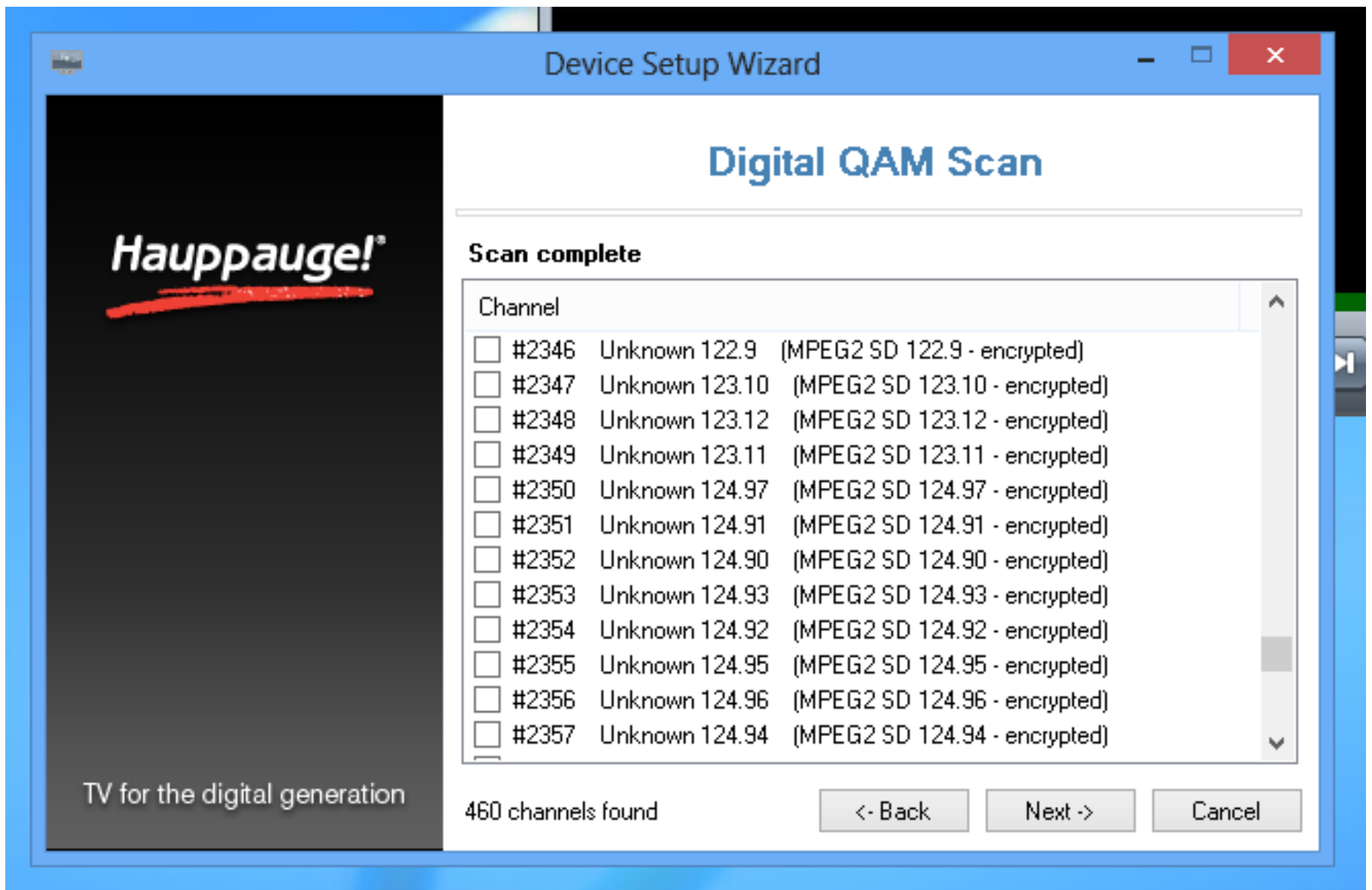
Next >

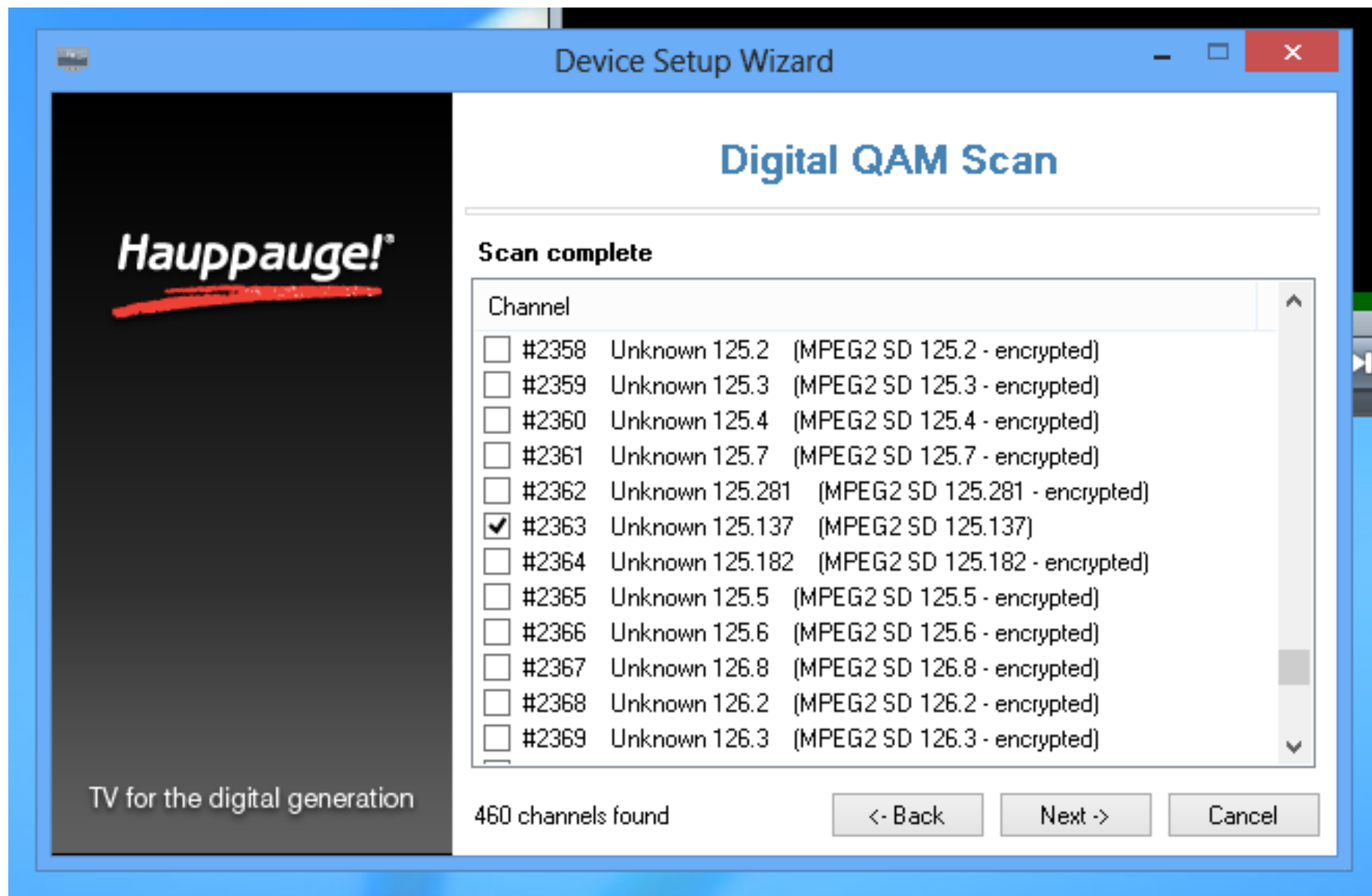
Cancel











## Device Setup Wizard

### Digital QAM Scan

**Hauppauge!**

TV for the digital generation

#### Scan complete

Channel

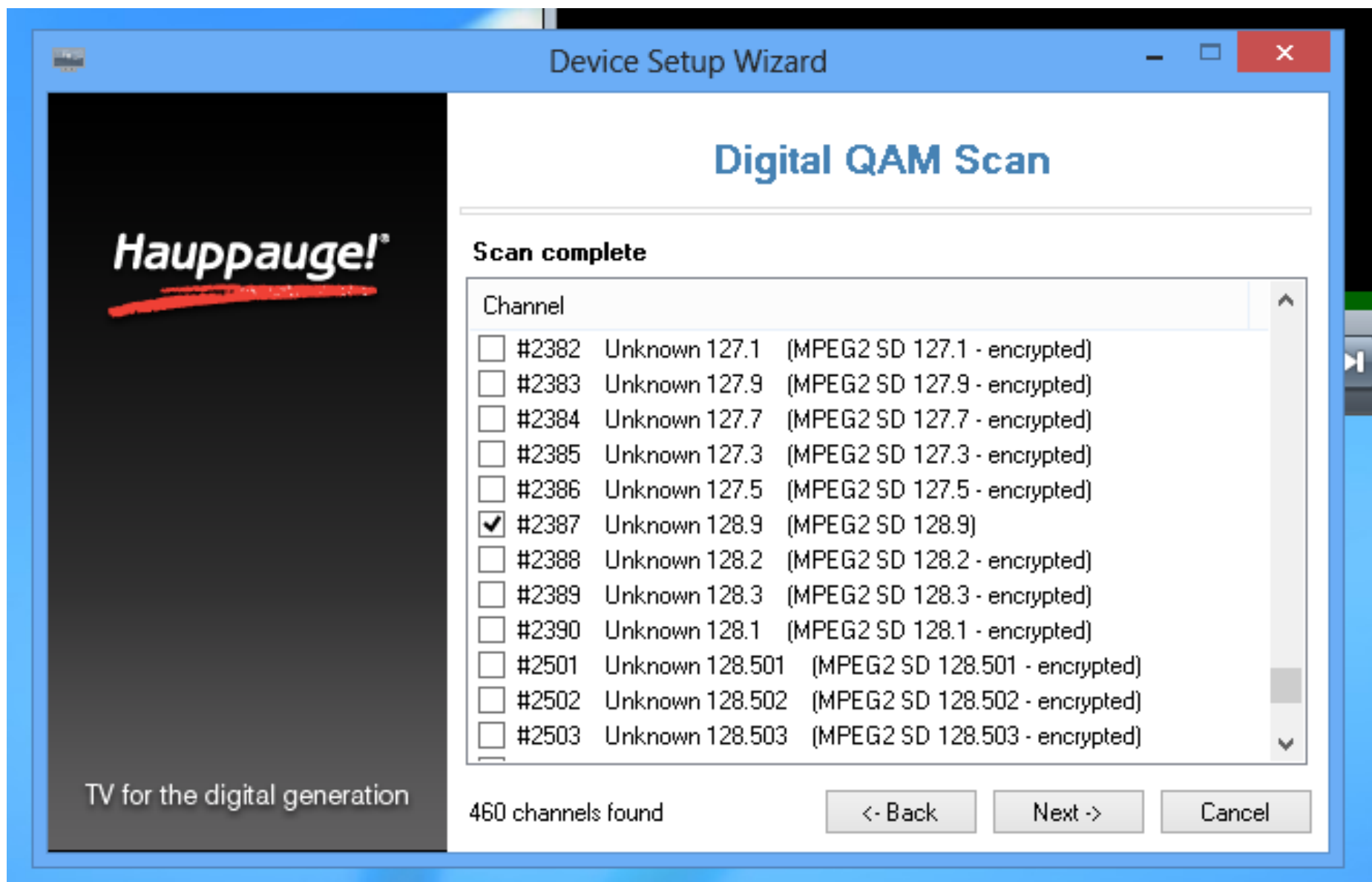
- ☐ #2370 Unknown 126.11 (MPEG2 SD 126.11 - encrypted)
- ☐ #2371 Unknown 126.6 (MPEG2 SD 126.6 - encrypted)
- ☐ #2372 Unknown 126.10 (MPEG2 SD 126.10 - encrypted)
- ☐ #2373 Unknown 126.9 (MPEG2 SD 126.9 - encrypted)
- ☐ #2374 Unknown 126.4 (MPEG2 SD 126.4 - encrypted)
- ☐ #2375 Unknown 126.5 (MPEG2 SD 126.5 - encrypted)
- ☐ #2376 Unknown 126.1 (MPEG2 SD 126.1 - encrypted)
- ☐ #2377 Unknown 127.2 (MPEG2 SD 127.2 - encrypted)
- ☐ #2378 Unknown 127.4 (MPEG2 SD 127.4 - encrypted)
- ☐ #2379 Unknown 127.6 (MPEG2 SD 127.6 - encrypted)
- ☐ #2380 Unknown 127.8 (MPEG2 SD 127.8 - encrypted)
- ☐ #2381 Unknown 127.10 (MPEG2 SD 127.10 - encrypted)

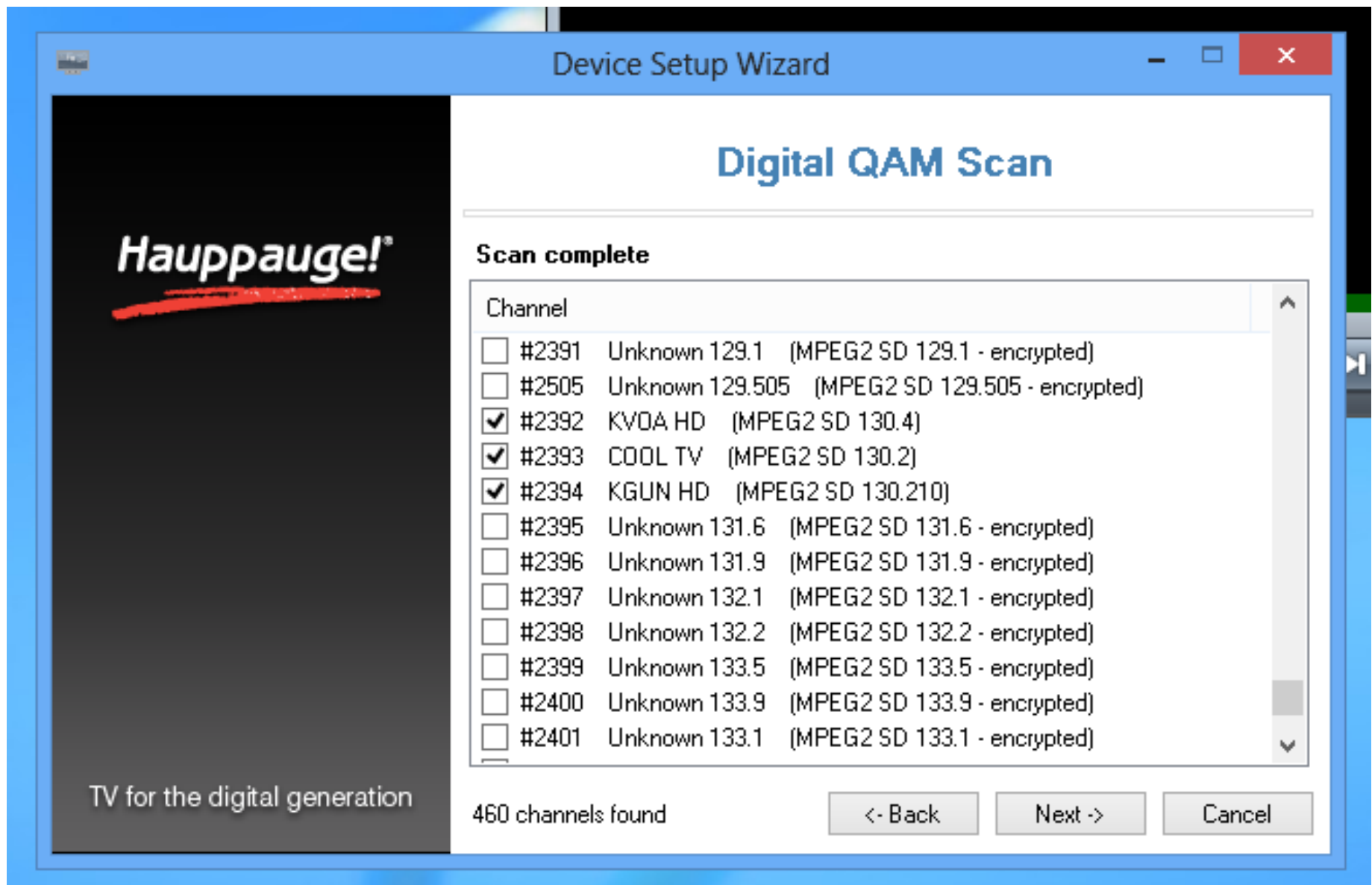
460 channels found

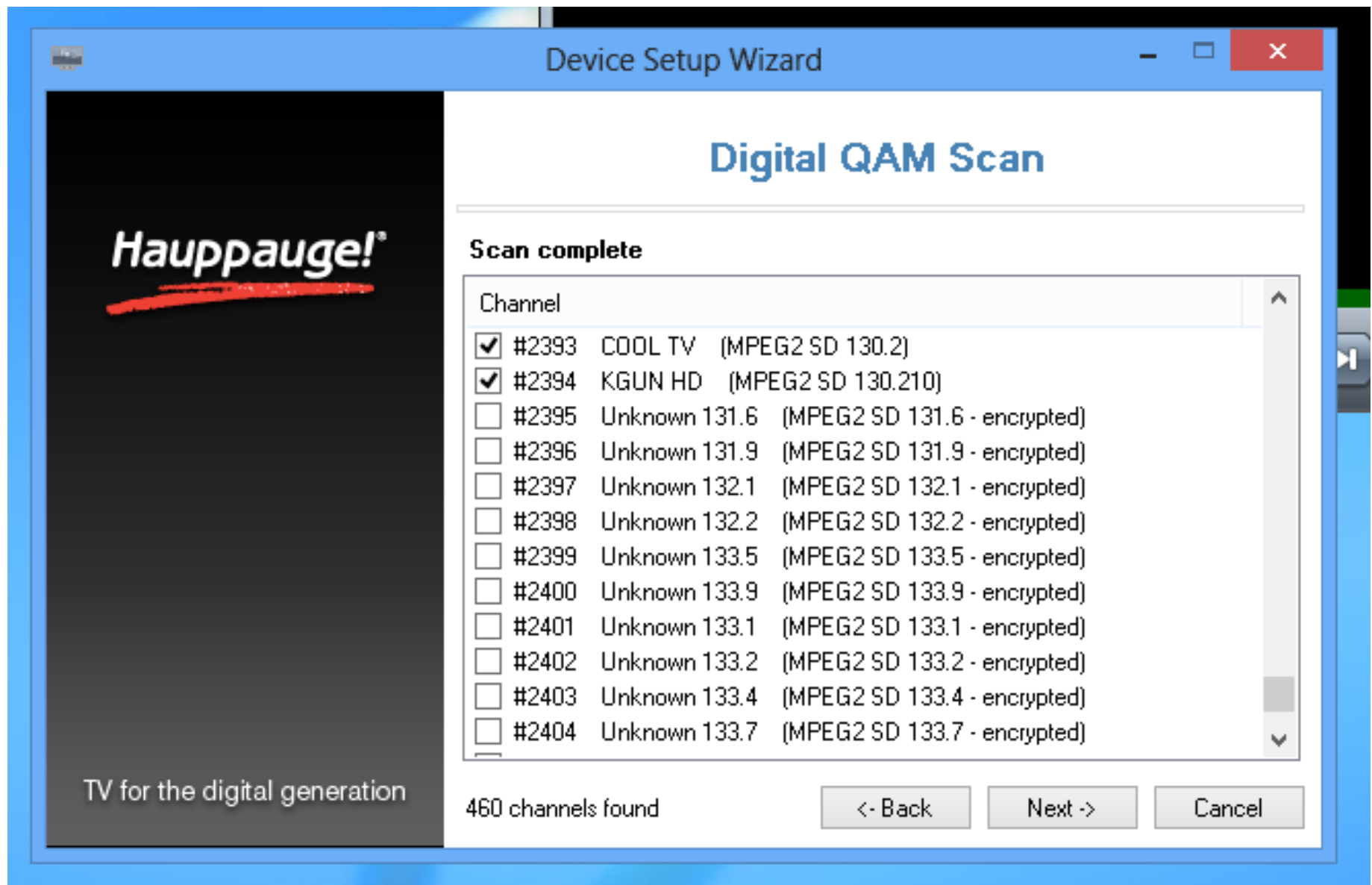
< Back

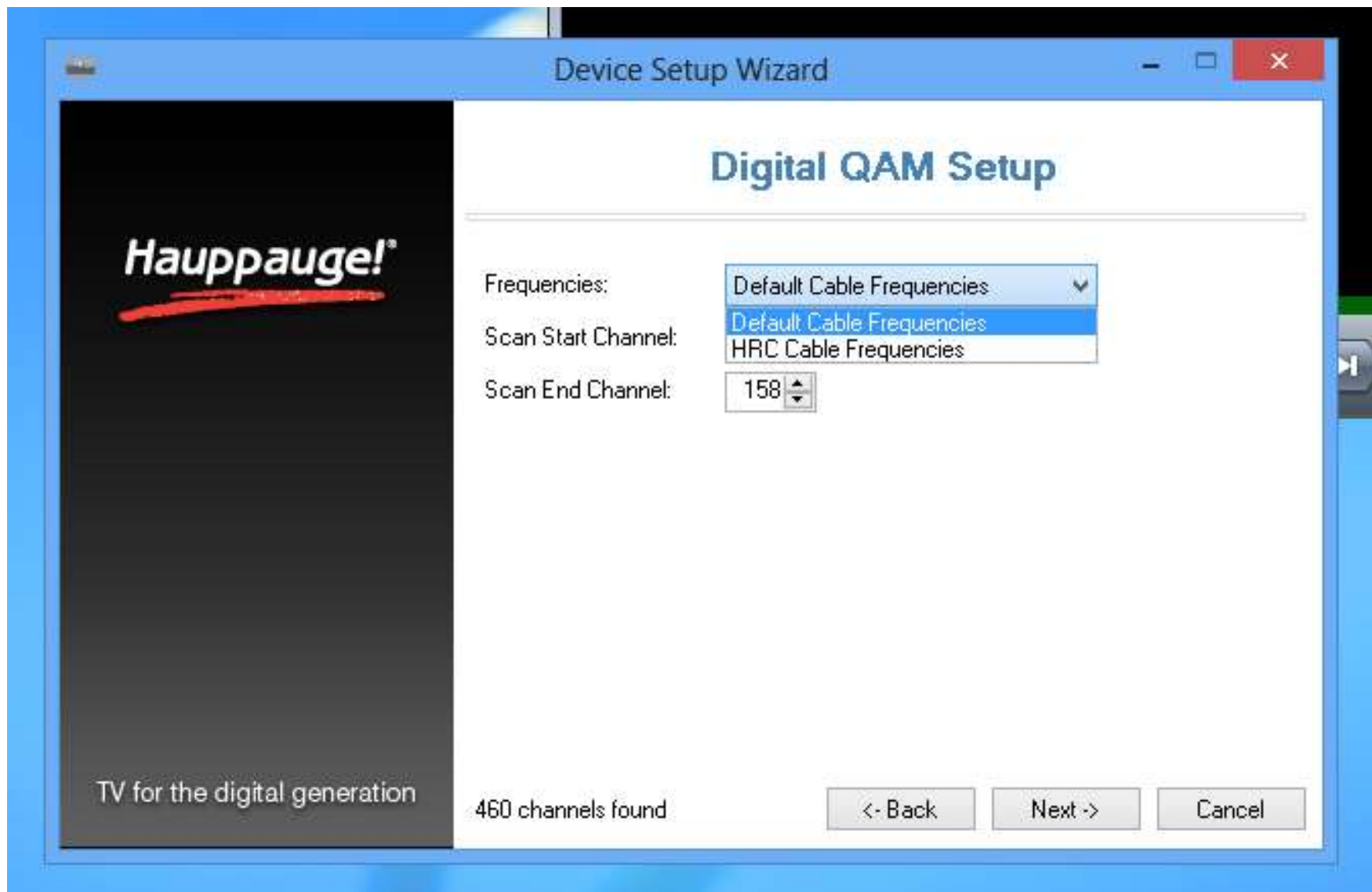
Next >

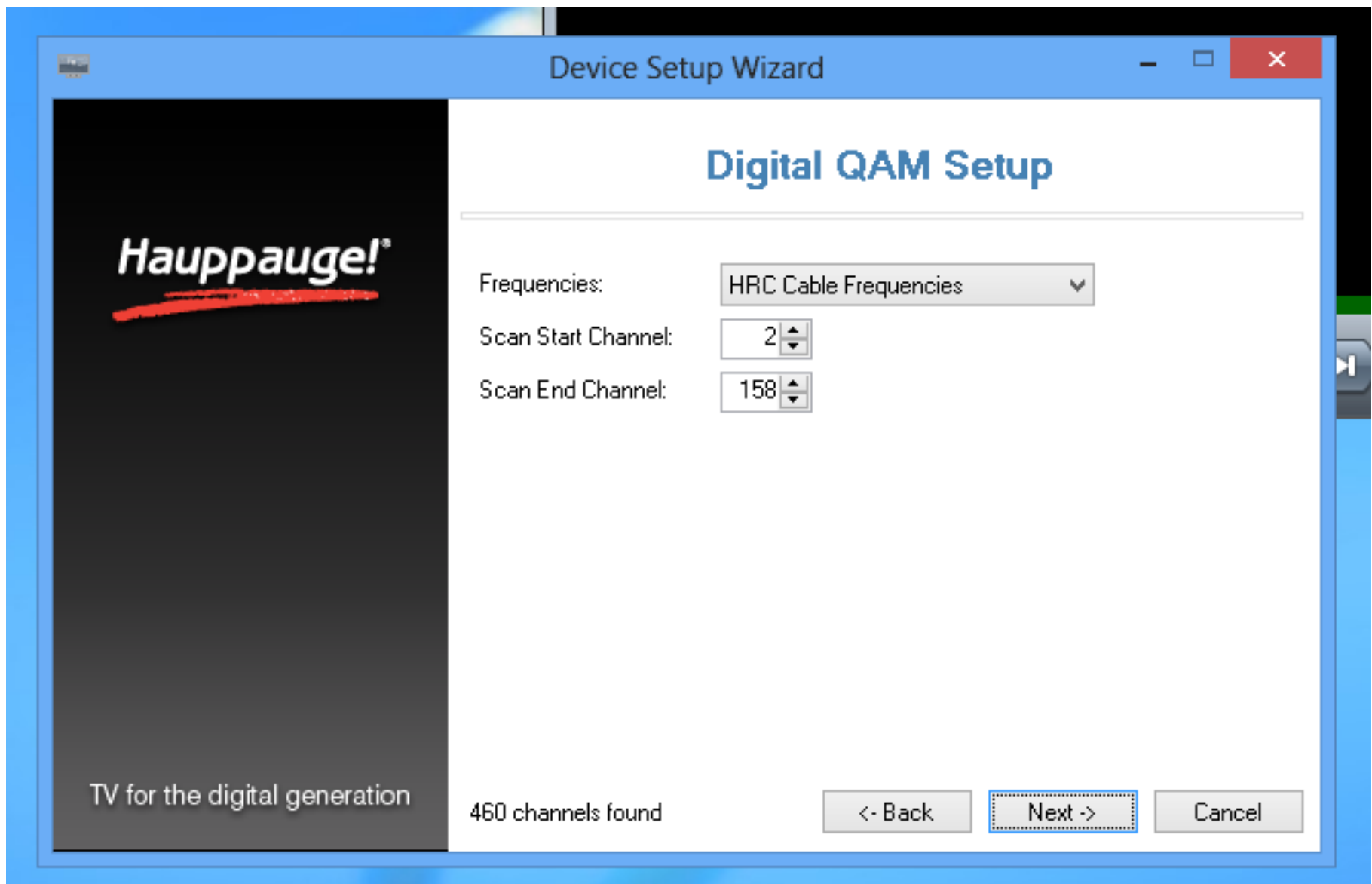
Cancel

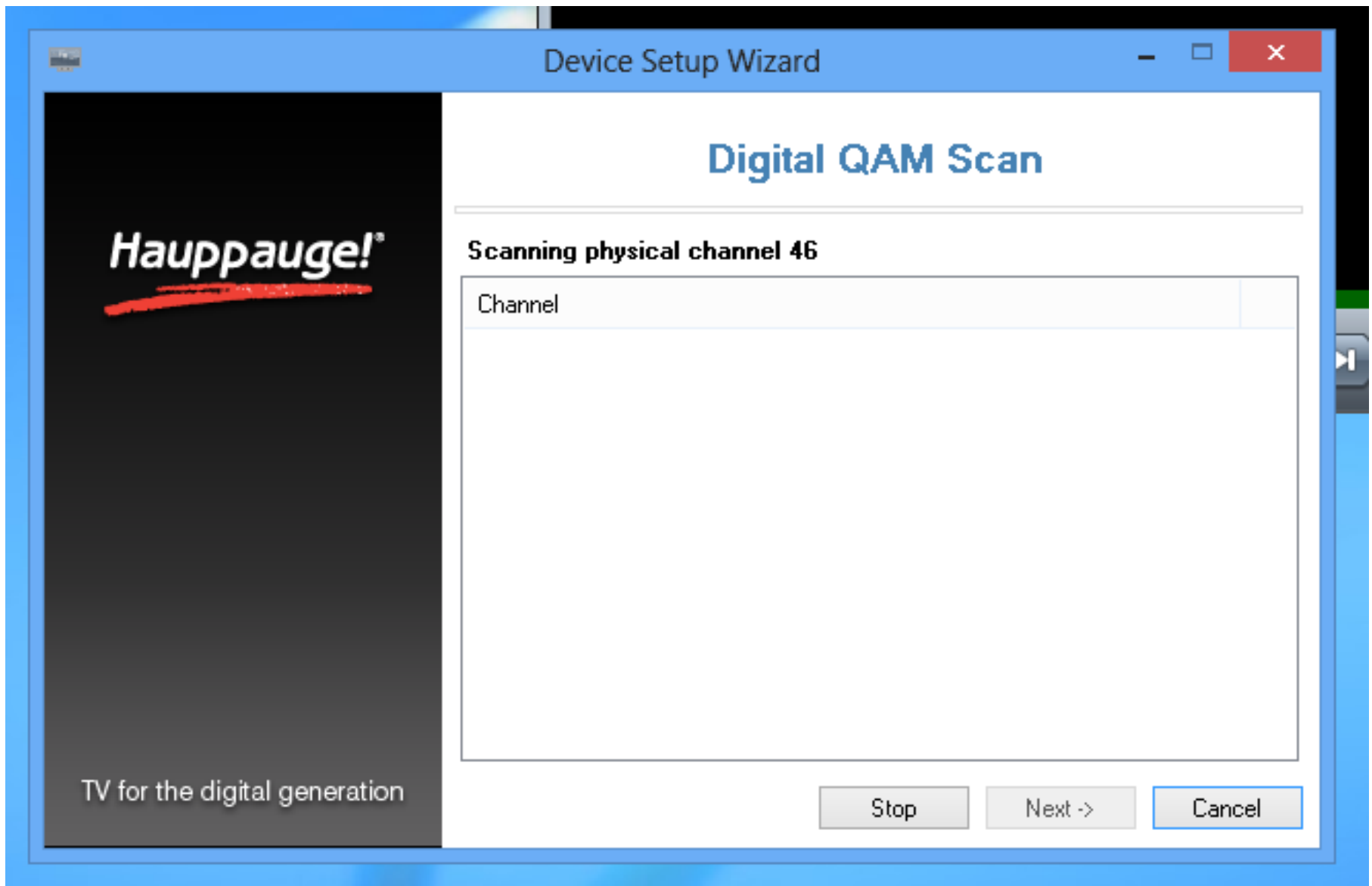


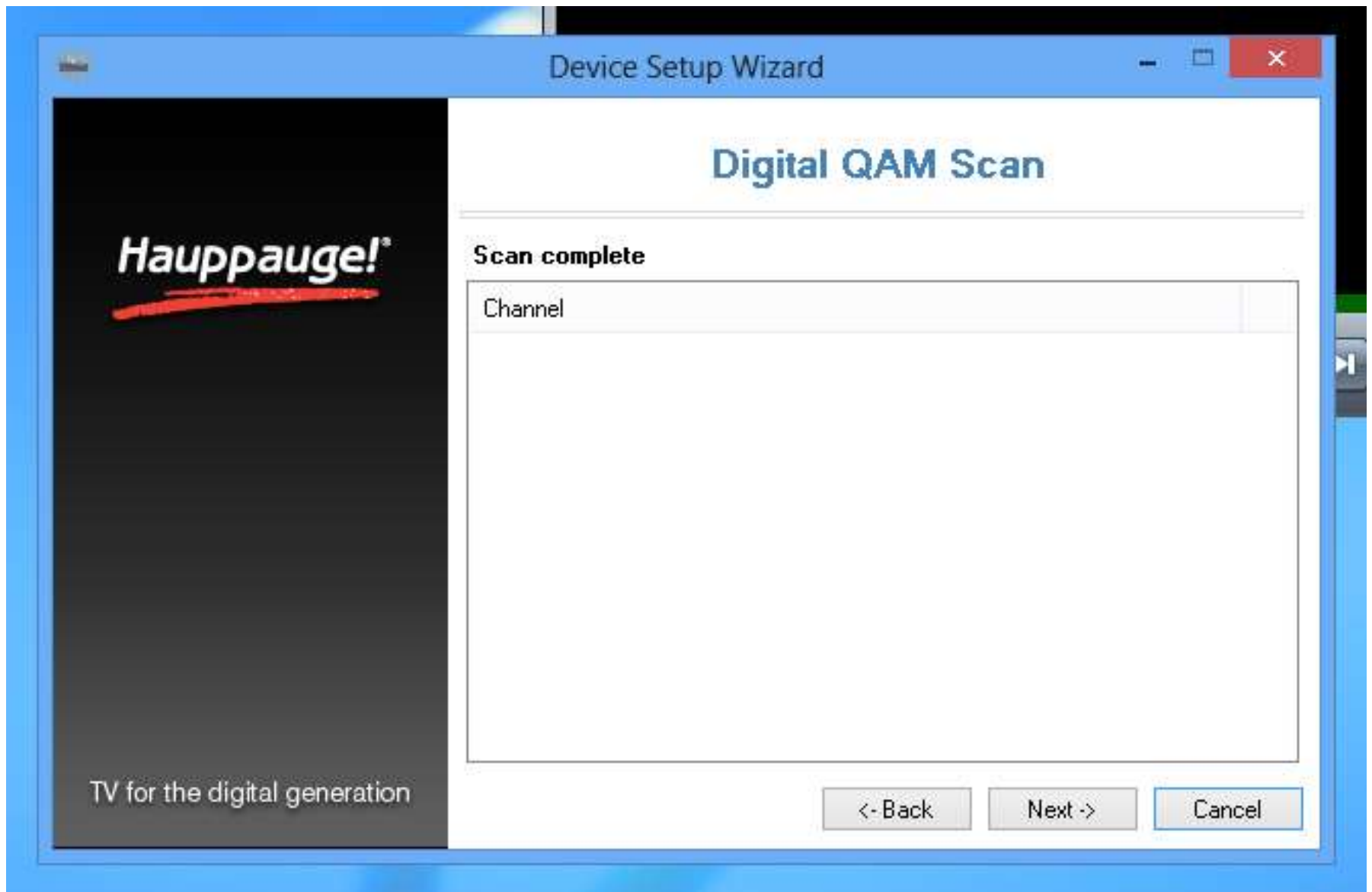




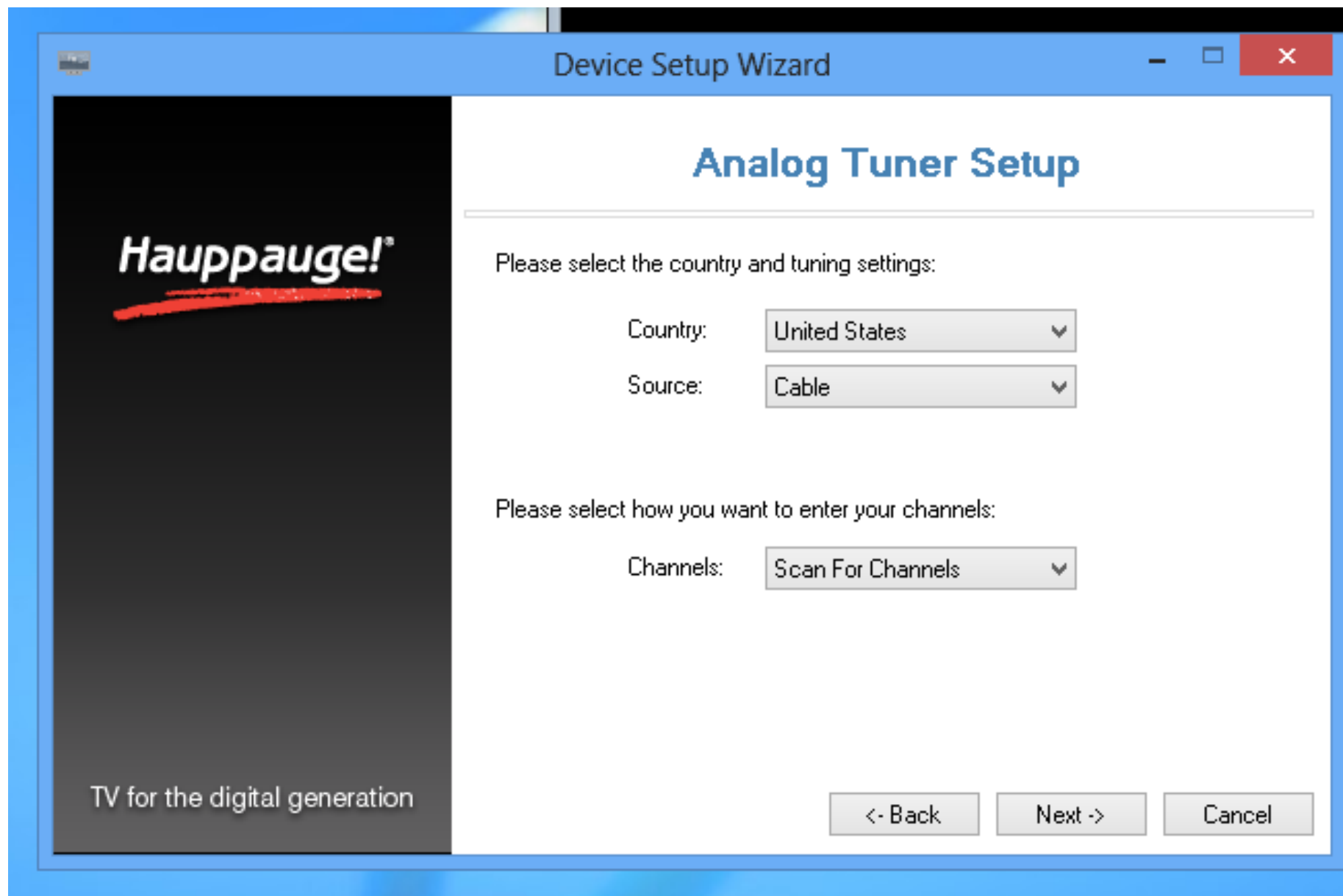








[http://en.wikipedia.org/wiki/  
North\\_American\\_cable\\_tel  
evision\\_frequencies](http://en.wikipedia.org/wiki/North_American_cable_television_frequencies)



## Device Setup Wizard

### Analog Tuner Scan

**Hauppauge!**

TV for the digital generation

Scanning 5/125

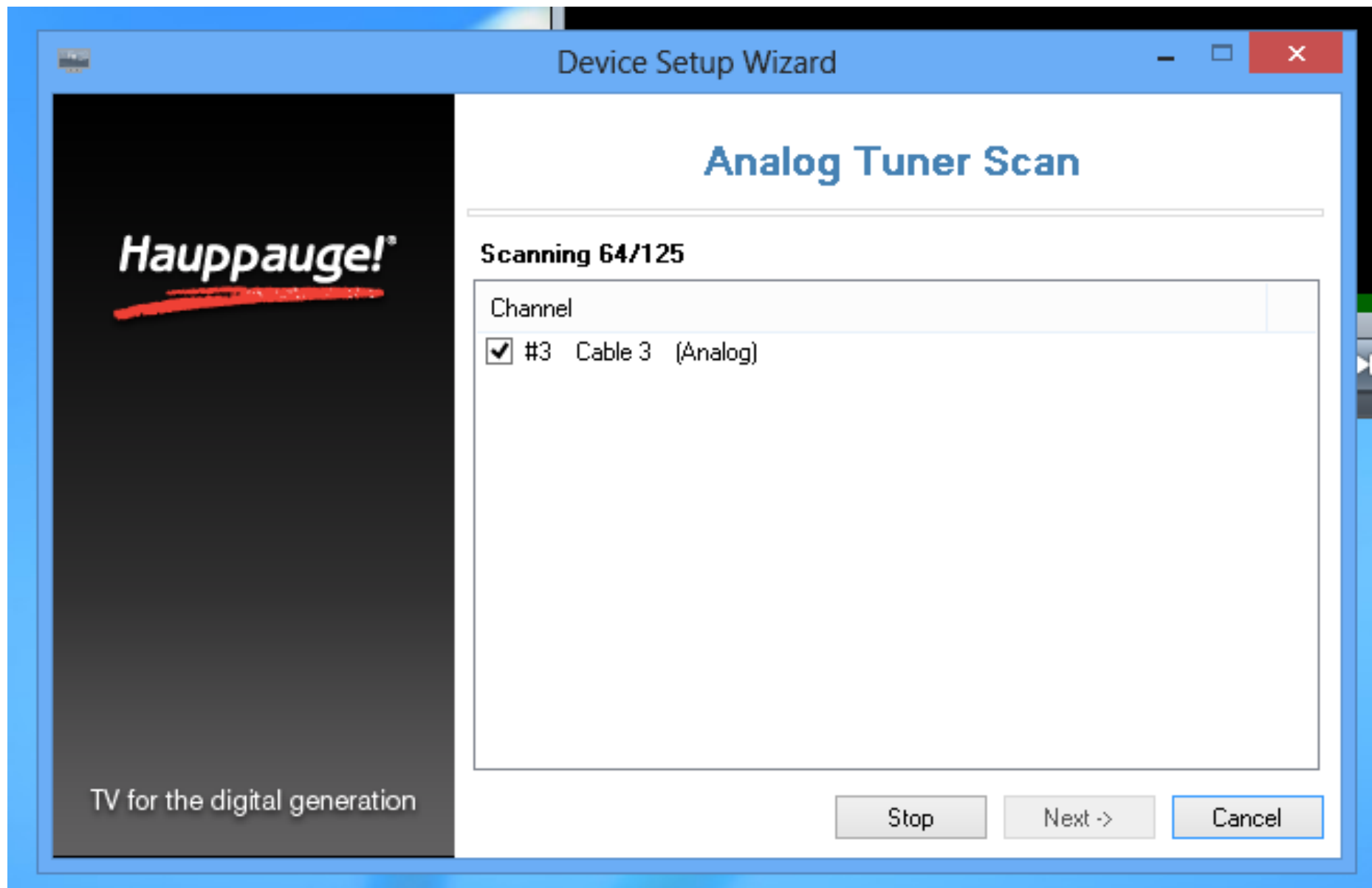
Channel

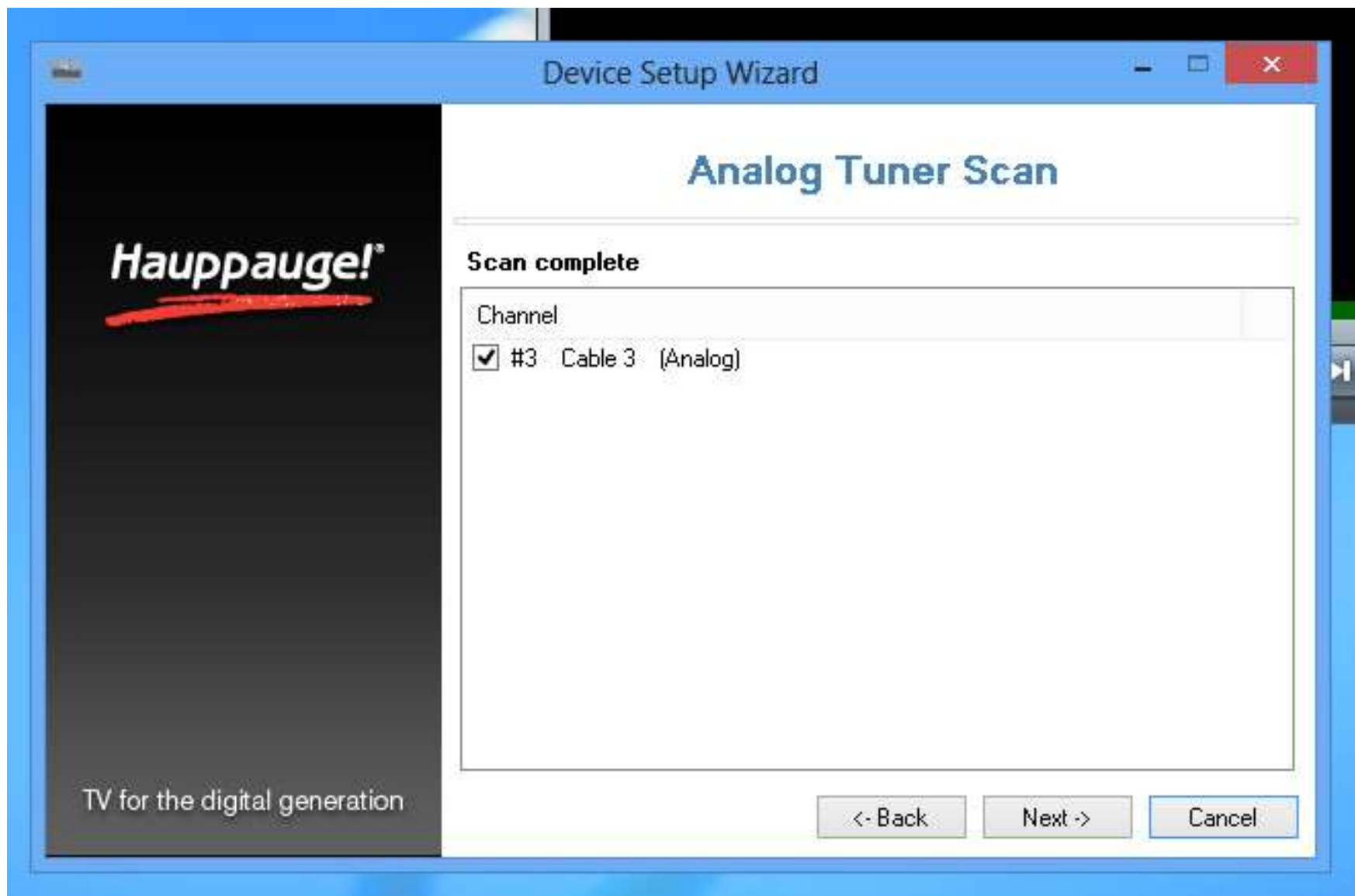
☒ #3 Cable 3 (Analog)

Stop

Next ->

Cancel





## Device Setup Wizard

**Hauppauge!**

TV for the digital generation

### Device Setup Complete

The Device Setup Wizard has completed installation of the following device.

Device: **WinTV-HVR-950Q (000DFE000000)**

☒ Start watching TV

Press 'Next' to continue.

<- Back

Next ->

Cancel

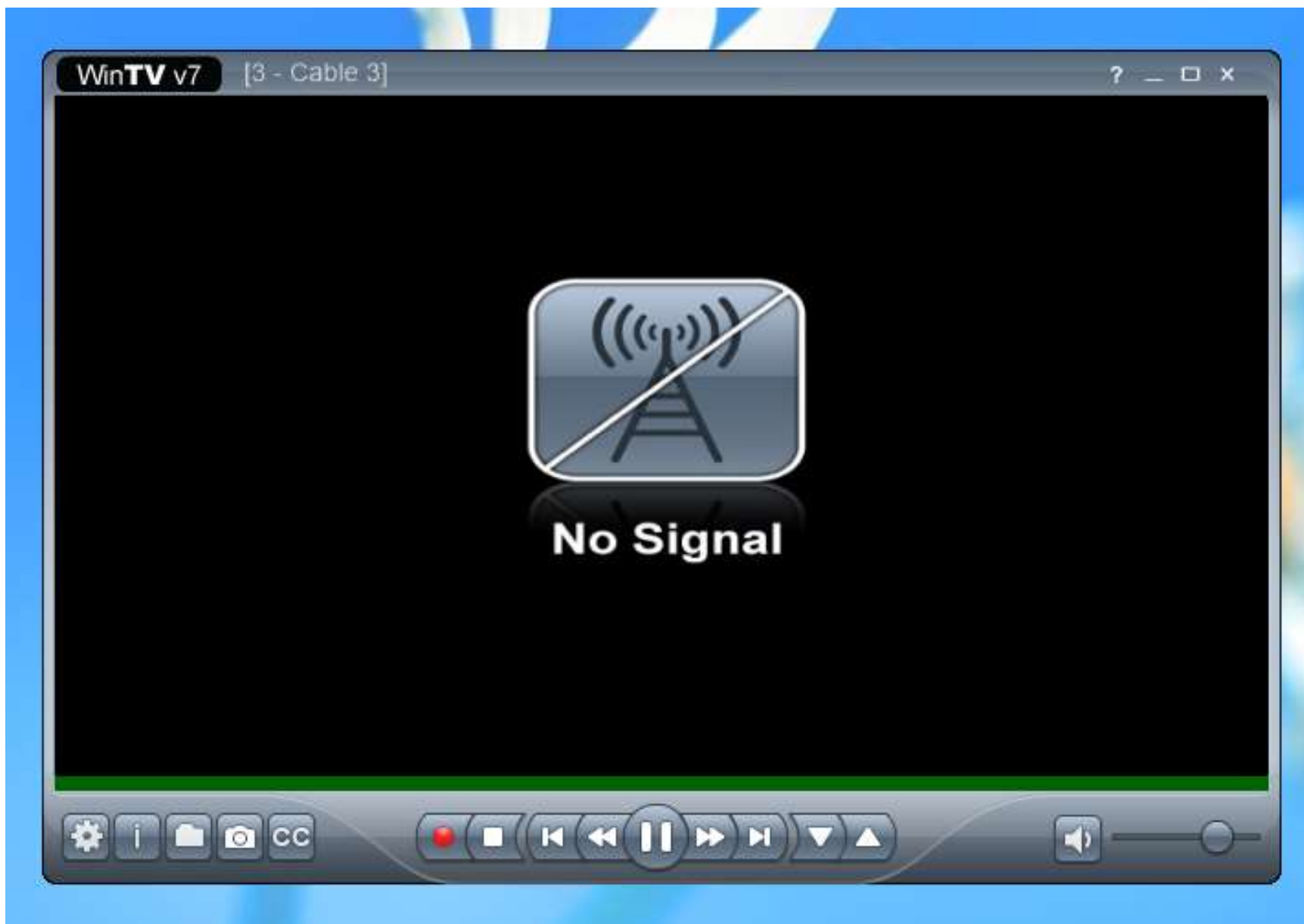


Window  
Windows

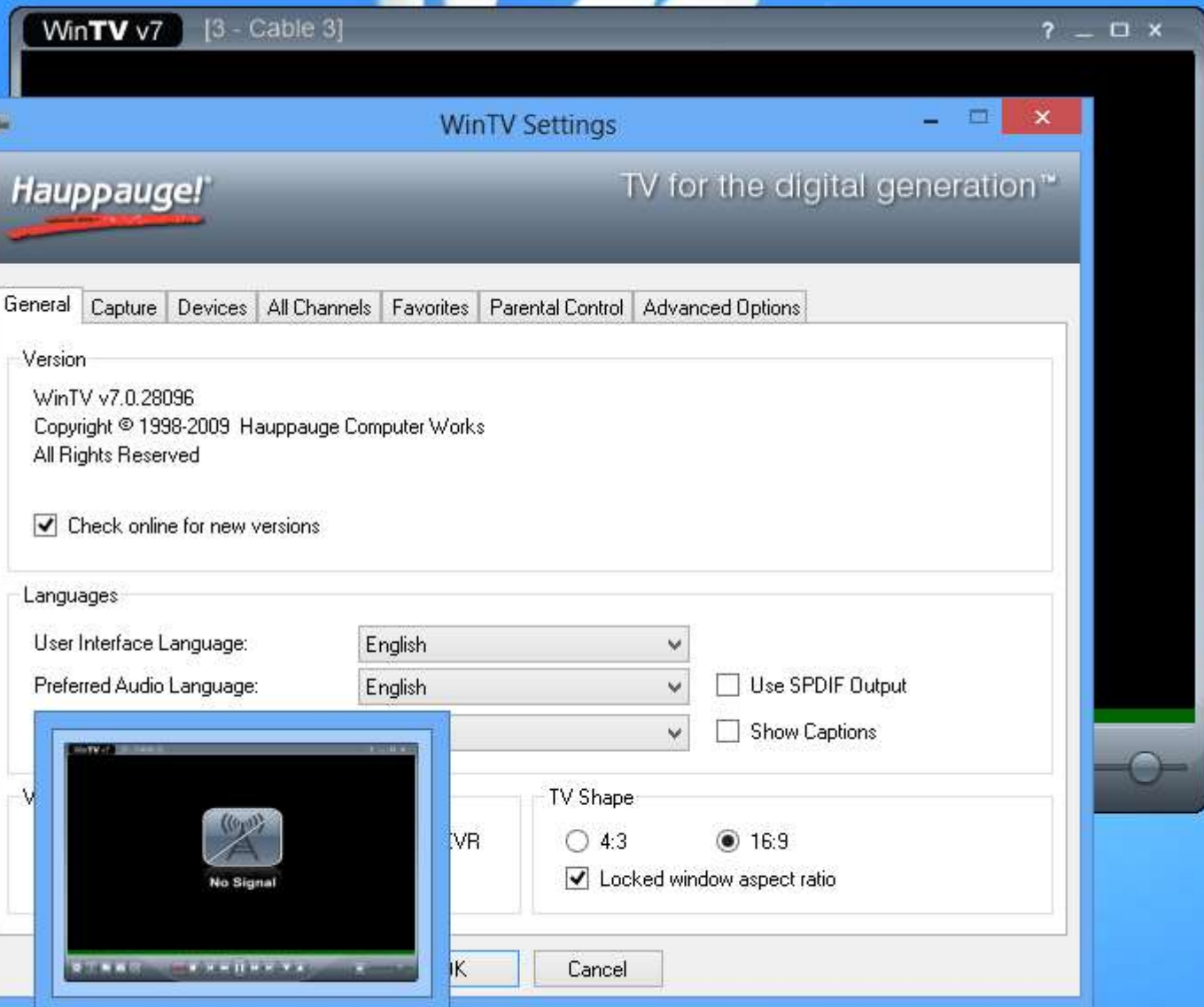


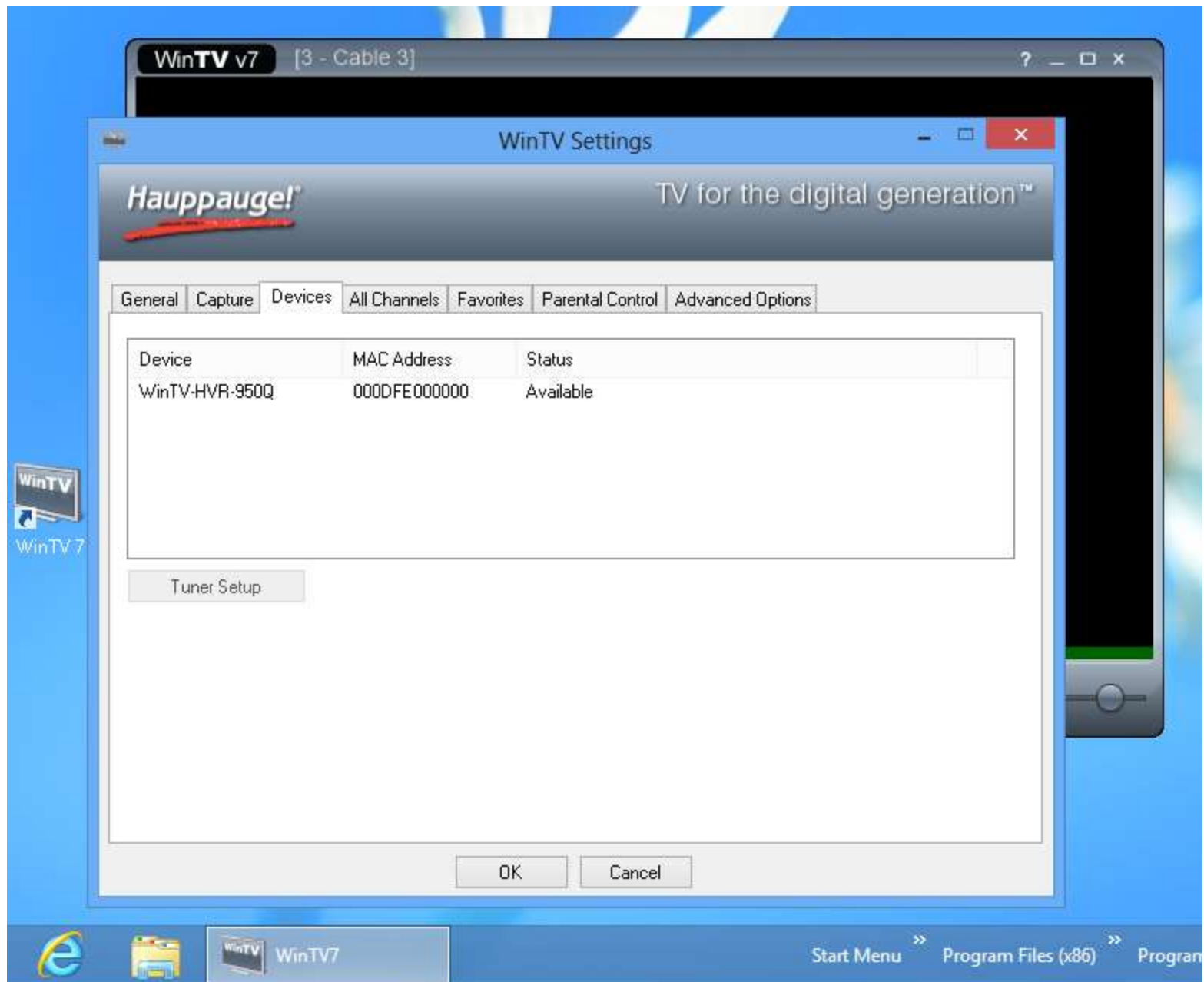
WinTV7

Start Menu » Program Files (x86) » Program Files »



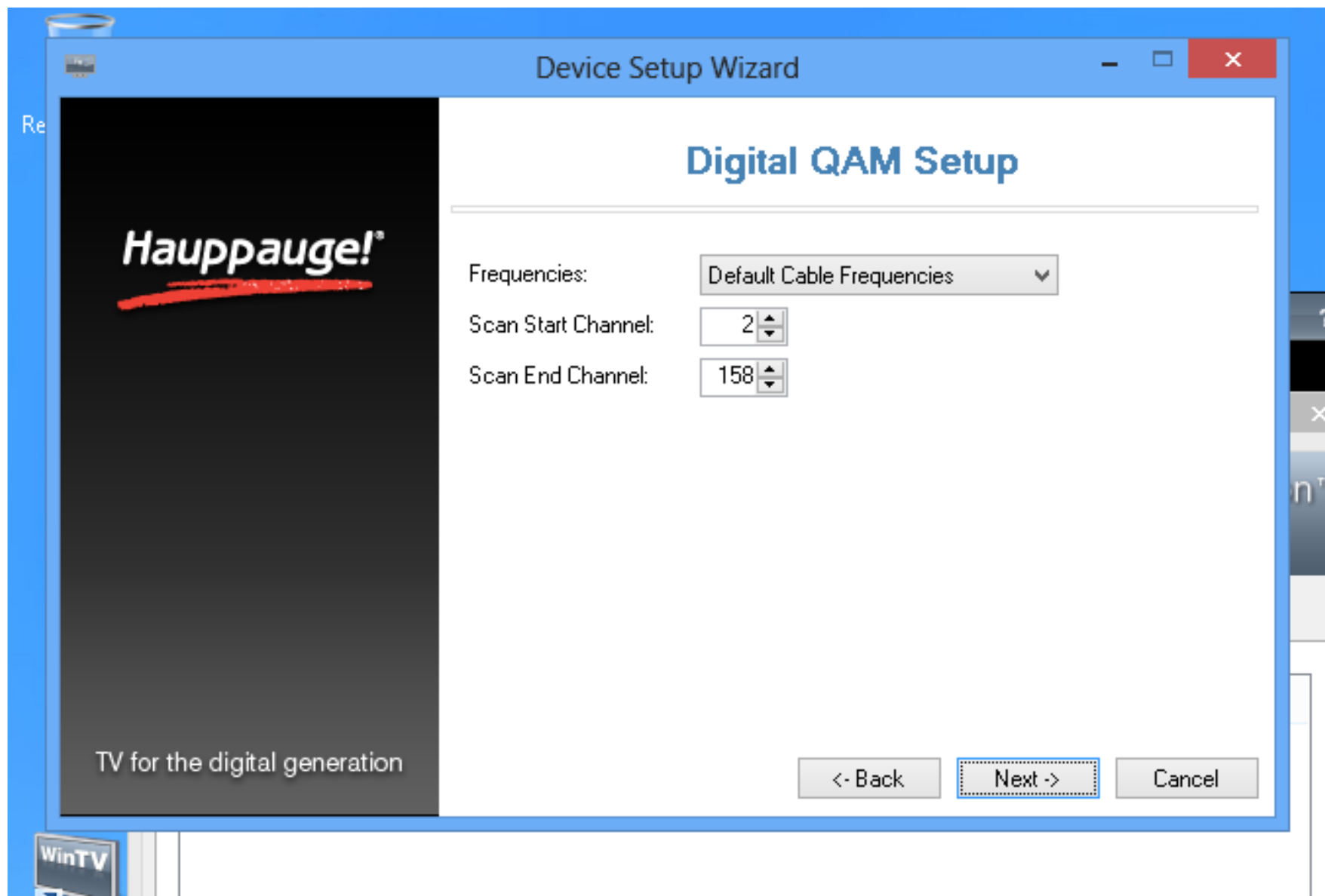








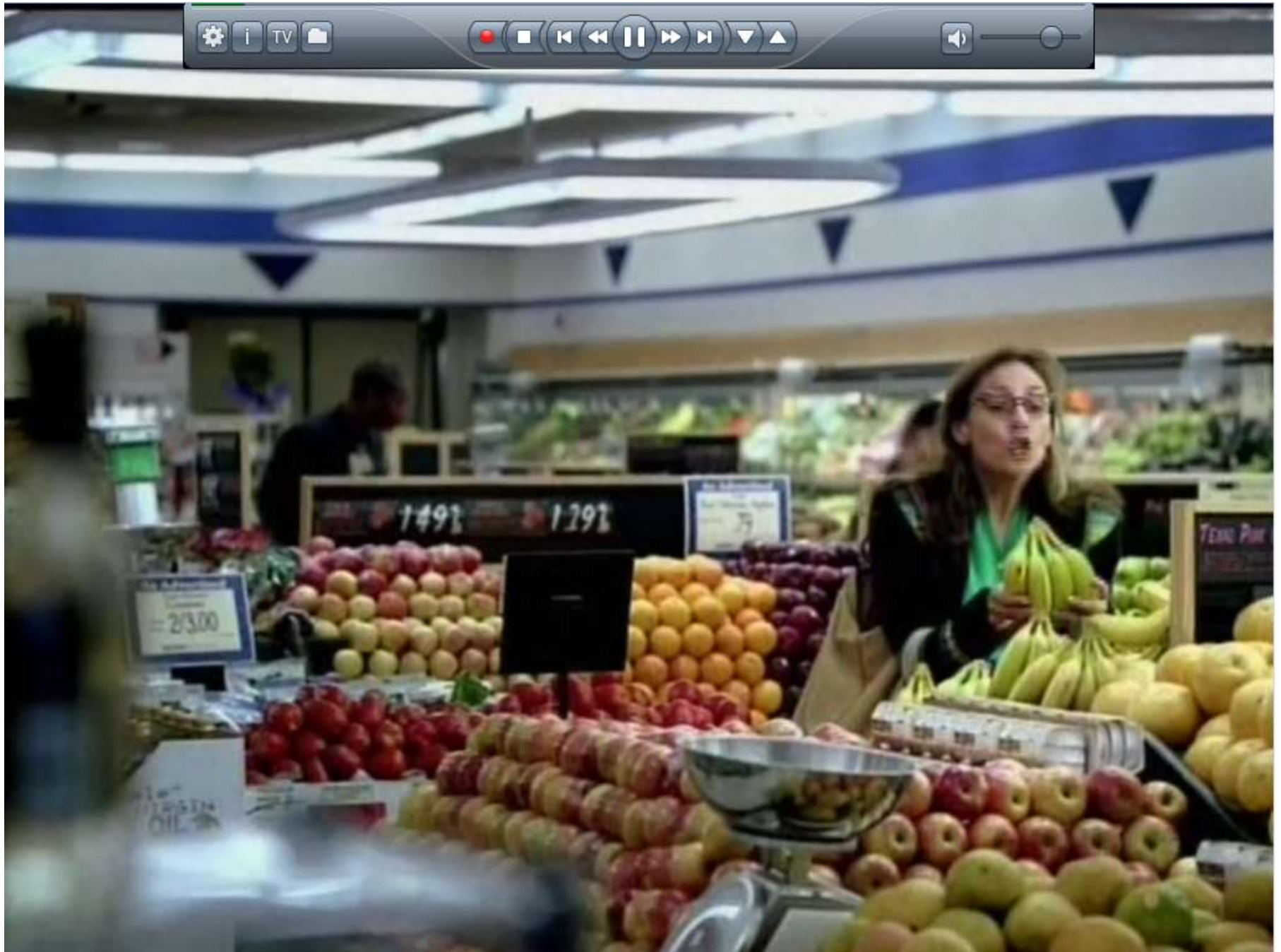














Recycle Bin



WinTV 7



Windows 8 Enterprise Evaluation  
Windows License valid for 89 days  
Build 9200



WinTV7

Start Menu »

Program Files (x86) »

Program Files »



8:01 PM  
3/22/2013





Recycle Bin



WinTV 7



Windows 8 Enterprise Evaluation  
Windows License valid for 89 days  
Build 9200



WinTV7

Start Menu »

Program Files (x86) »

Program Files »



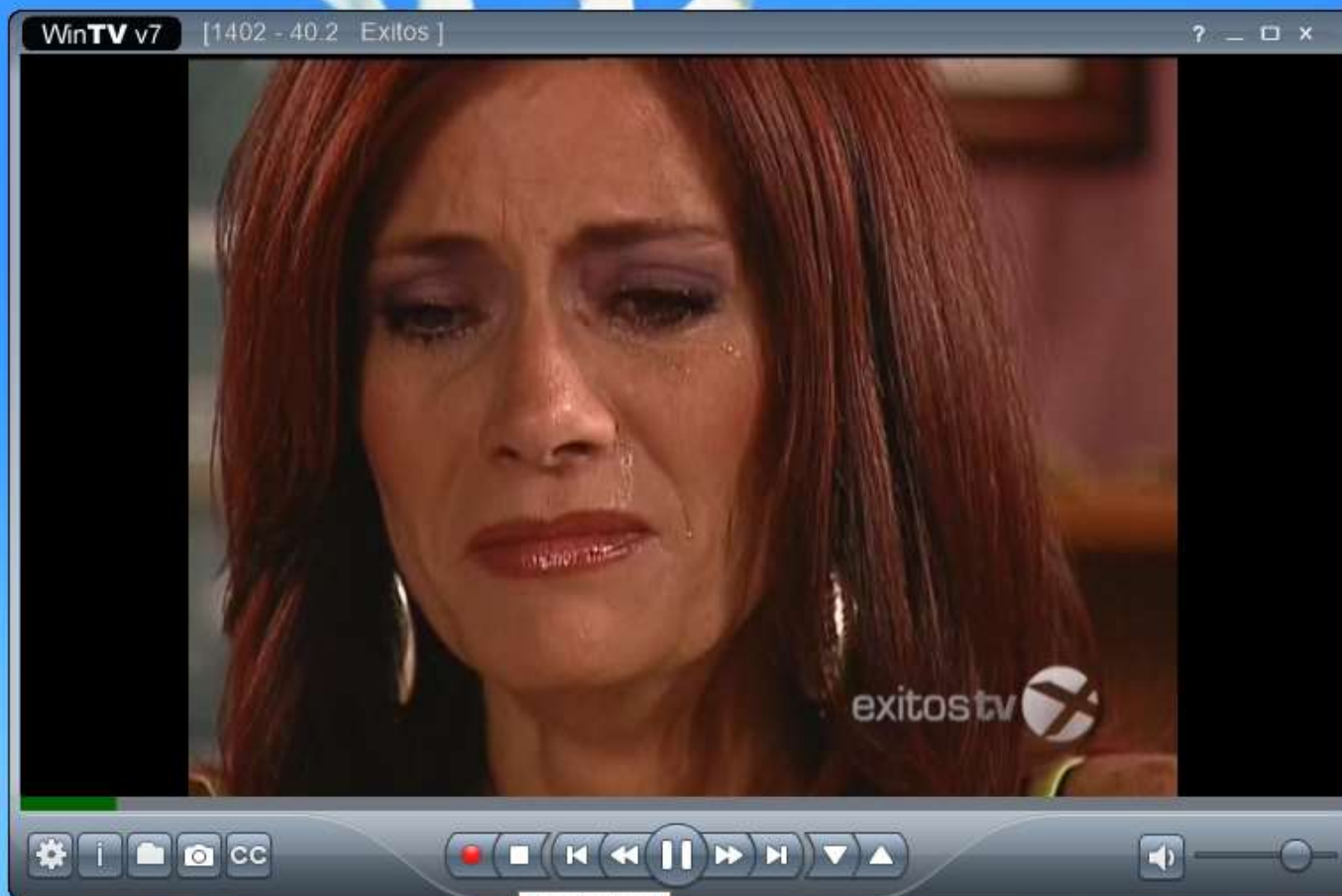
8:01 PM  
3/22/2013



Recycle Bin



WinTV 7



Stop Playback

Windows 8 Enterprise Evaluation  
Windows License valid for 89 days  
Build 9200



WinTV7

Start Menu »

Program Files (x86) »

Program Files »



8:06 PM  
3/22/2013



Recycle Bin



WinTV 7



Windows 8 Enterprise Evaluation  
Windows License valid for 89 days  
Build 9200



WinTV7

Start Menu »

Program Files (x86) »

Program Files »



8:06 PM  
3/22/2013



Windows 8 Enterprise  
Windows License v...



WinTV7

Start Menu »

Program Files (x86) »

Program Files »





Recycle Bin



WinTV 7



Windows 8 Enterprise Evaluation  
Windows License valid for 89 days  
Build 9200



WinTV7

Start Menu » Program Files (x86) » Program Files »

8:08 PM  
3/22/2013



Recycle Bin



WinTV 7



Windows 8 Enterprise Evaluation  
Windows License valid for 89 days  
Build 9200



WinTV7

Start Menu » Program Files (x86) » Program Files »

8:09 PM  
3/22/2013



Recycle Bin



WinTV 7



Windows 8 Enterprise Evaluation  
Windows License valid for 89 days  
Build 9200



WinTV7

Start Menu »

Program Files (x86) »

Program Files »



8:09 PM  
3/22/2013



Recycle Bin



WinTV 7



Windows 8 Enterprise Evaluation  
Windows License valid for 89 days  
Build 9200



WinTV7

Start Menu » Program Files (x86) » Program Files »



8:09 PM  
3/22/2013

# SOFTWARE PROGRAMS FOR VIRTUAL TVs (continued)

- Mac "OS X" computers
  - "EyeTV" software program
    - Sold bundled with "Elgato" USB tuners at all "Apple Stores" and most "Apple Specialist" stores.
    - Works well with "Elgato" and "Hauppauge" USB tuner "sticks".
    - Does not work with "Avermedia" or "Asus" USB tuner "sticks".

# SOFTWARE PROGRAMS FOR VIRTUAL TVs (continued)

- Mac "OS X" computers
  - "EyeTV" software program (continued)
    - Can be purchased separately for about \$80. See <http://www.elgato.com/elgato/na/mainmenu/buy.en.html>





EyeTV

File Edit View Audio Controls Window Help

## EyeTV Setup Assistant

### Choose Hardware

Select your hardware from the menus below.

#### ✓ Choose Manufacturer

Elgato

ATI  
devolo  
Digital Everywhere  
Hama  
Hauppauge  
Huawei  
LAKS  
Logitec  
Miglia  
Networx  
PCTV  
Plextor  
TerraTec  
Twinhan  
Valups

Network / IPTV

? What hardware do I have?

Cancel



✓ Choose Manufacturer

Elgato

ATI

devolo

Digital Everywhere

Hama

Hauppauge

Huawei

LAKS

Logitec

Miglia

Networx

PCTV

Plextor

TerraTec

Twinhan

Valups

Network / IPTV

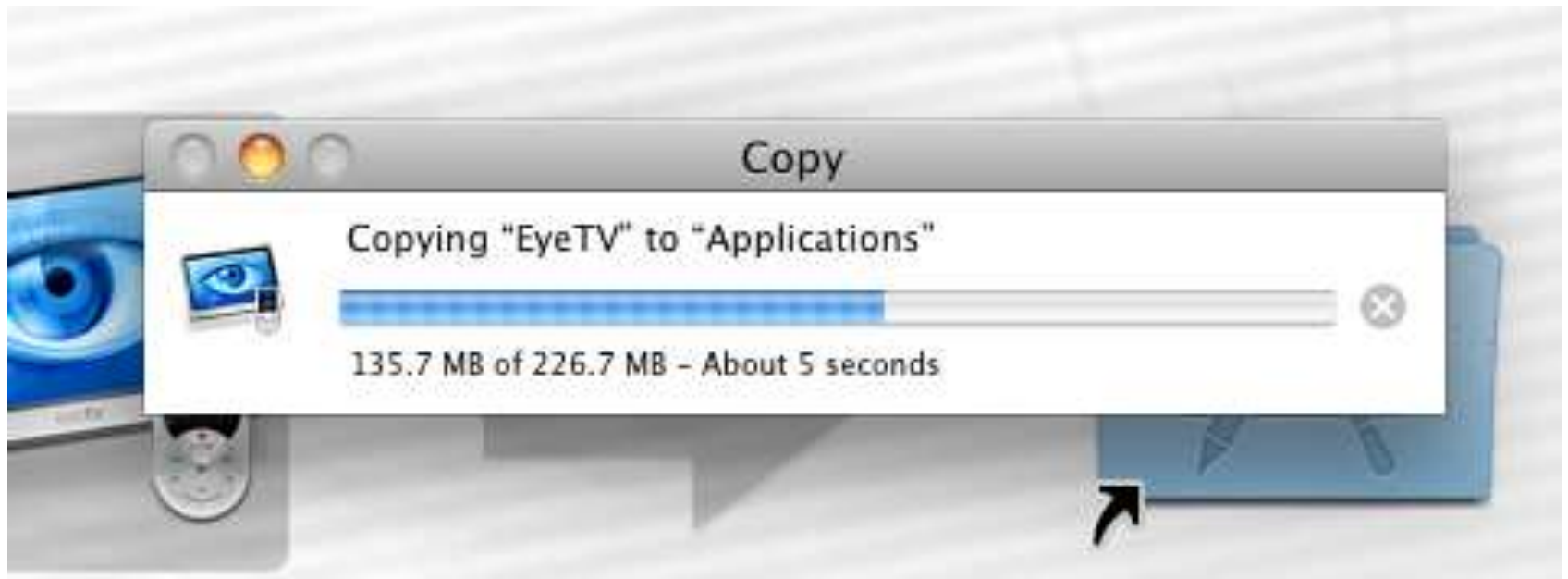
## **Award Winning EyeTV Software for Mac**

Watch, pause, and rewind live TV – at your desk or from the comfort of your couch. Search the Program Guide to record your favorite shows. Use Smart Guides to record an entire season automatically, directly to your Mac or external disk. Edit your recordings, and share them with other Macs on your network. EyeTV can even export your TV shows to iTunes automatically for playback on your iPod, iPhone, iPad or Apple TV.

EyeTV Hybrid comes with one year of free TV Guide data, with optional renewal for only \$19.95 USD per year. The Smart Guide feature requires a subscription to the TV Guide data service.













**Administrator access is required to update a device driver for EyeTV. Type your password to allow EyeTV to make changes.**

Name:

Password:

► Details



Cancel

OK





EyeTV



EyeTV Setup Assistant

Welcome to EyeTV!



This Assistant will help you get started with watching and recording television with EyeTV.

Click Next to begin.

Quit

Previous

Next



iChat



## License Agreement

Elgato Systems, LLC  
Software License Agreement  
Single Use License

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Quit

Previous

Next

## EyeTV Setup Assistant



**To continue using this software, you must agree to the terms of the software license agreement.**

Click Agree to continue or click Disagree to cancel the Setup Assistant.

Disagree

Agree

PLEASE READ THE SOFTWARE LICENSE AGREEMENT CAREFULLY BEFORE USING THE SOFTWARE. BY AGREEING TO BE BOUND BY THE TERMS OF THIS LICENSE, IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE, DO NOT USE THE SOFTWARE. IF YOU DO NOT AGREE TO THE TERMS OF THE LICENSE, YOU MAY RETURN THE SOFTWARE TO THE PLACE WHERE YOU OBTAINED IT FOR A REFUND. IF THE



## EyeTV Setup Assistant

### Choose Hardware

Select your hardware from the menus below.



Hauppauge

WinTV-HVR-950Q

Click next to continue.

? What hardware do I have?

Quit

Previous

Next



## EyeTV Setup Assistant

### Connect Antenna or Cable

Please connect an antenna or TV cable to your WinTV-HVR-950Q.

What did you connect?

- ☒ Antenna
- ☒ Cable

If you are unsure, check both Antenna and Cable.

If you connected a cable or satellite receiver, VCR, DVD player, camera or any other device to EyeTV's video inputs, uncheck both options.

Cancel

Previous

Next

## EyeTV Setup Assistant

### Connect to Your Mac



Now, plug the WinTV-HVR-950Q into a USB port.

Do not attach the hardware to the USB port on your keyboard or to a non-powered USB hub. These do not provide enough power.

☒ Automatically start EyeTV when the hardware is attached to the Mac.

Cancel

Previous

Next

## Connect to Your Mac

Now, plug the WinTV-HVR-950Q into a USB port.

Do not attach the hardware to the USB port on your keyboard or to a non-powered USB hub. These do not provide enough power.



☐ Automatically start EyeTV when the hardware is attached to the Mac.

Cancel

Previous

Next

## EyeTV Setup Assistant

### Register with My EyeTV



EyeTV can use program guide information from TV Guide, provided by Rovi Corporation.

Click "Create Account" to create an account with Elgato's My EyeTV service that will give you free access to guide data for one year.

If you already have a My EyeTV account, click Next.

Create Account

Cancel

Previous

Next

## EyeTV Setup Assistant

### My EyeTV Account Information

Please enter or confirm your My EyeTV account information:

Account: Click Change... to enter.

Change...

You can change your account information as well as additional settings in the "Guide" tab of the EyeTV Preferences.

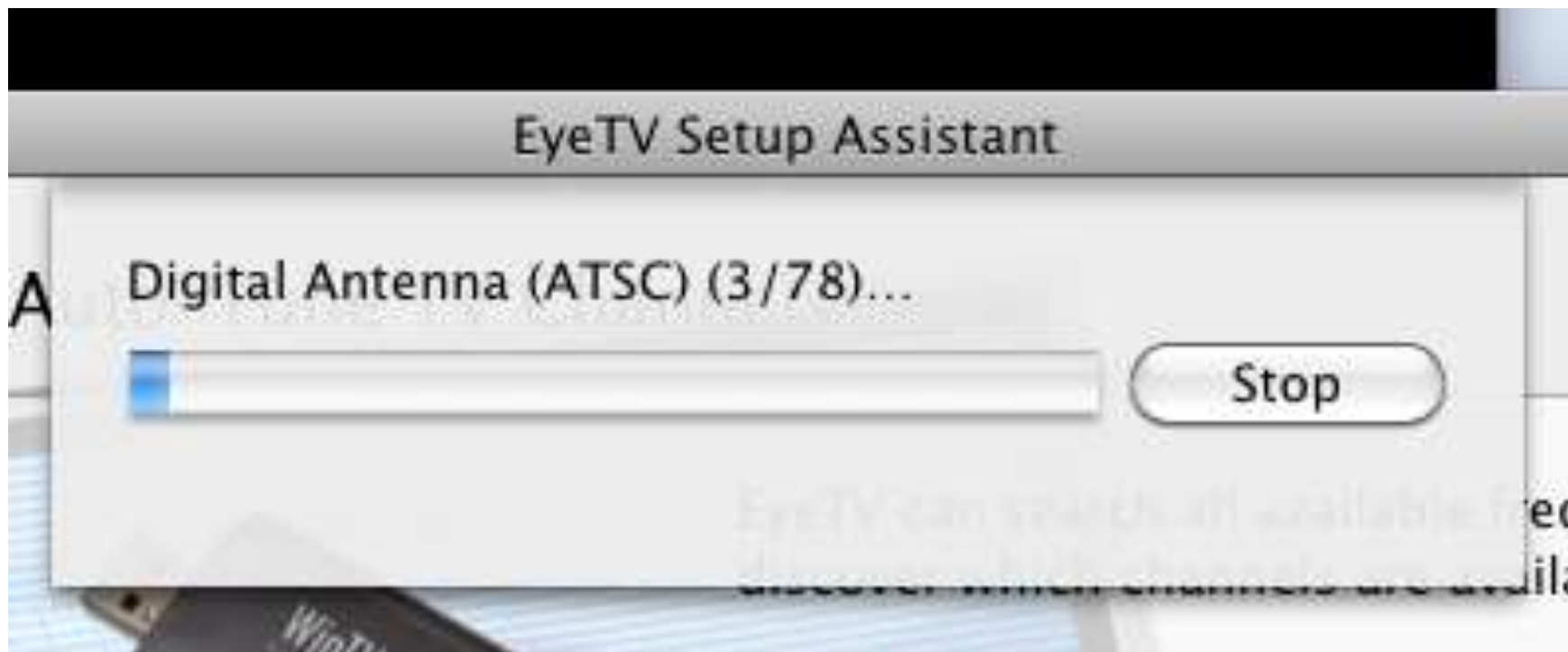
Cancel

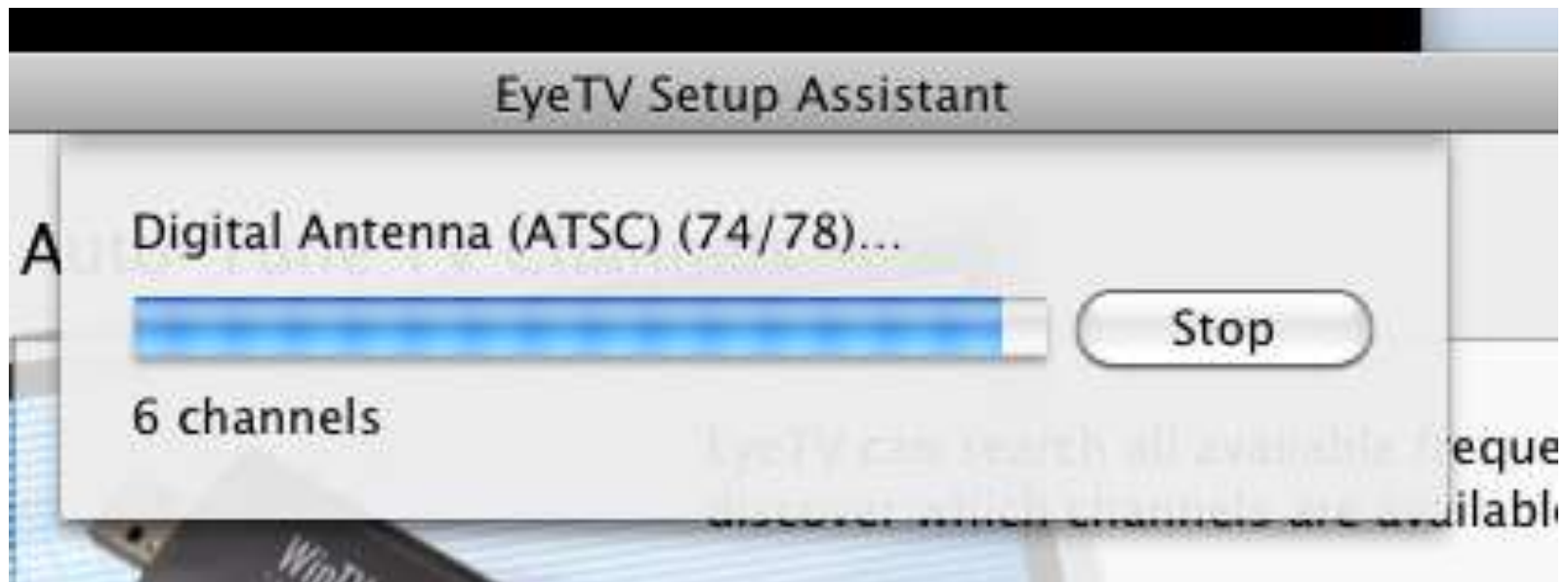
Previous

Next











EyeTV can search all available frequencies to discover which channels are available in your area.

Select a service below, then click Auto-Tune.

Service: Digital - Antenna (ATSC)

Auto-Tune...



Auto-Tune found 6 channels.  
Did you expect to find more? Click here for help.

Cancel

Previous

Next



Auto-Tune found 6 channels.

Did you expect to find more? [Click here for help.](#)

## EyeTV Setup Assistant

### Auto-Tune TV Channels



EyeTV can search all available frequencies to discover which channels are available in your area.

Select a service below, then click Auto-Tune.

Service ☒ Analog - Antenna NTSC  
☐ Cable  
☒ Digital - Antenna (ATSC)

Auto-Tune...



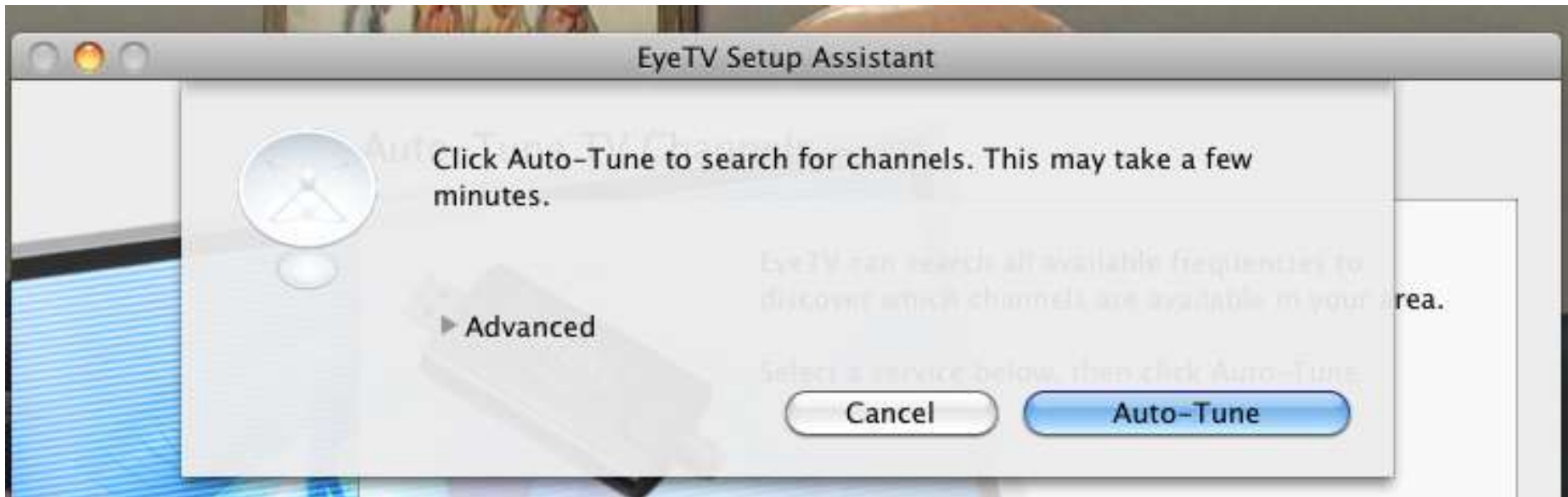
Auto-Tune found 6 channels.  
Did you expect to find more? Click here for help.

Cancel

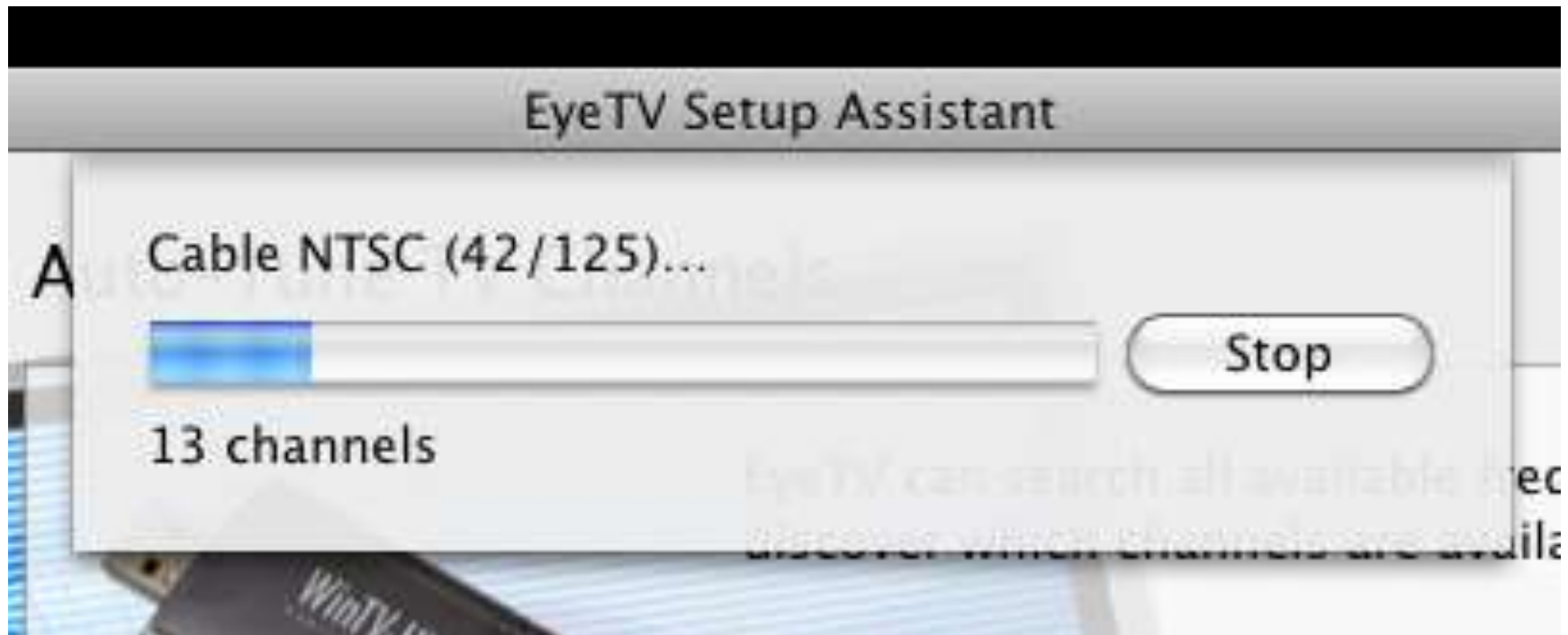
Previous

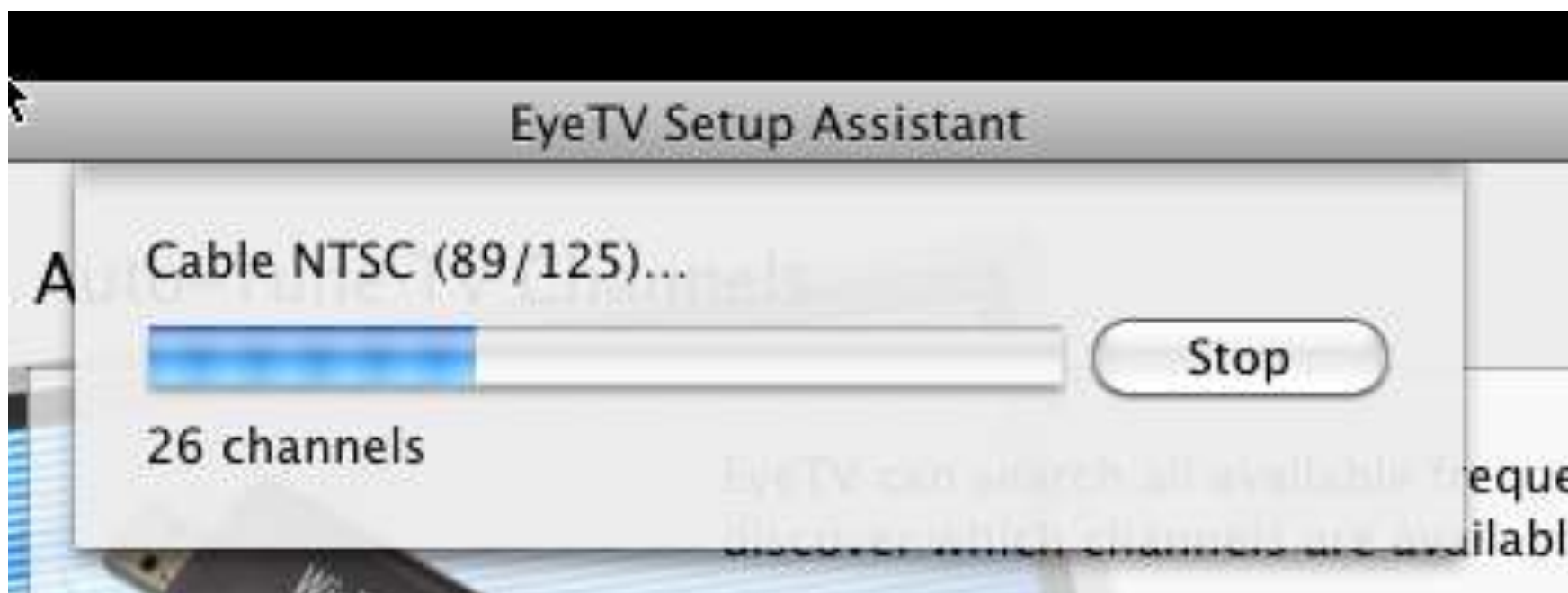
Next













## EyeTV Setup Assistant

Digital Cable (Clear QAM) (41/125)...



Stop

33 channels

EyeTV can search all available frequencies to discover which channels are available.

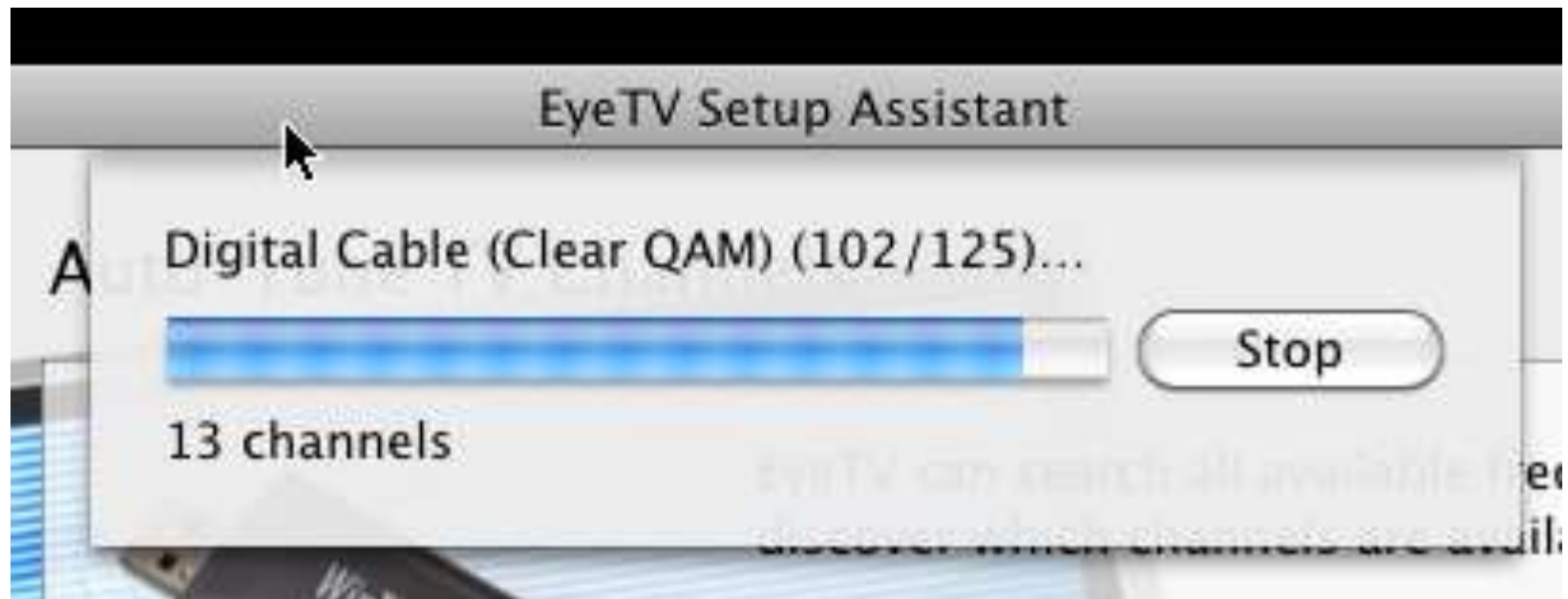
## EyeTV Setup Assistant

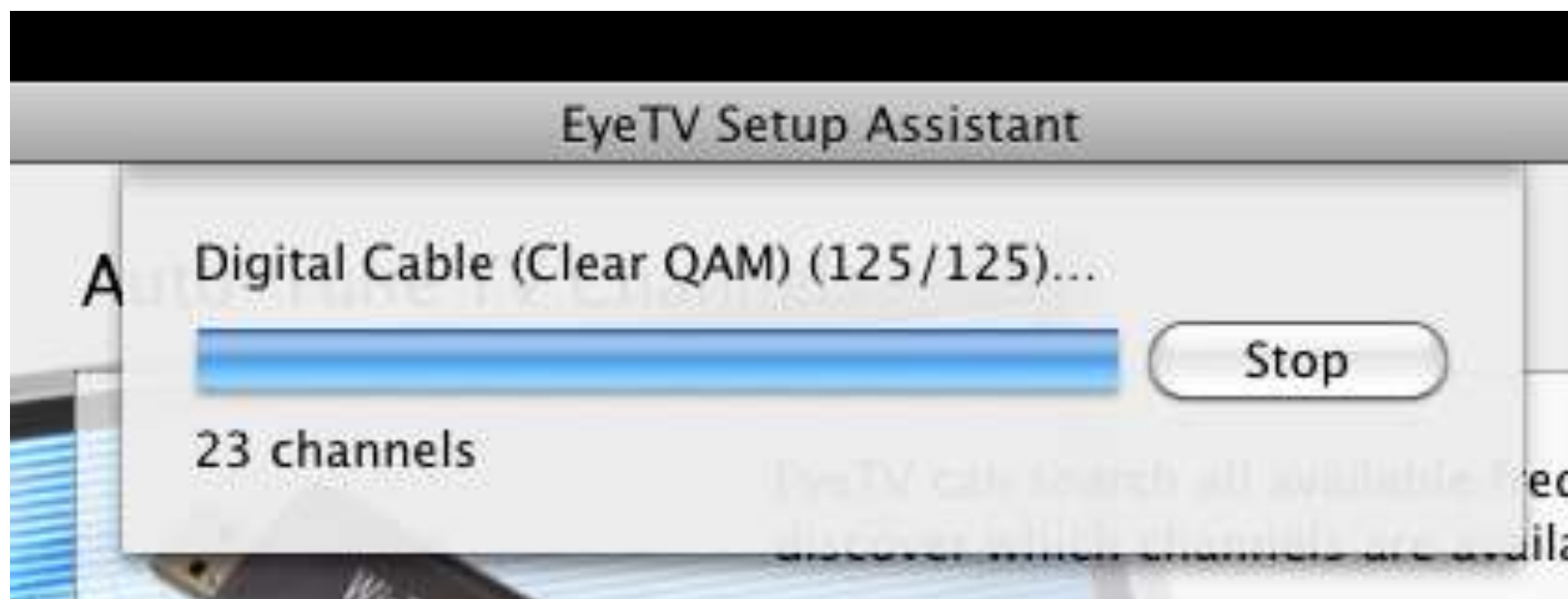
Digital Cable (Clear QAM) (88/125)...



Stop

3 channels





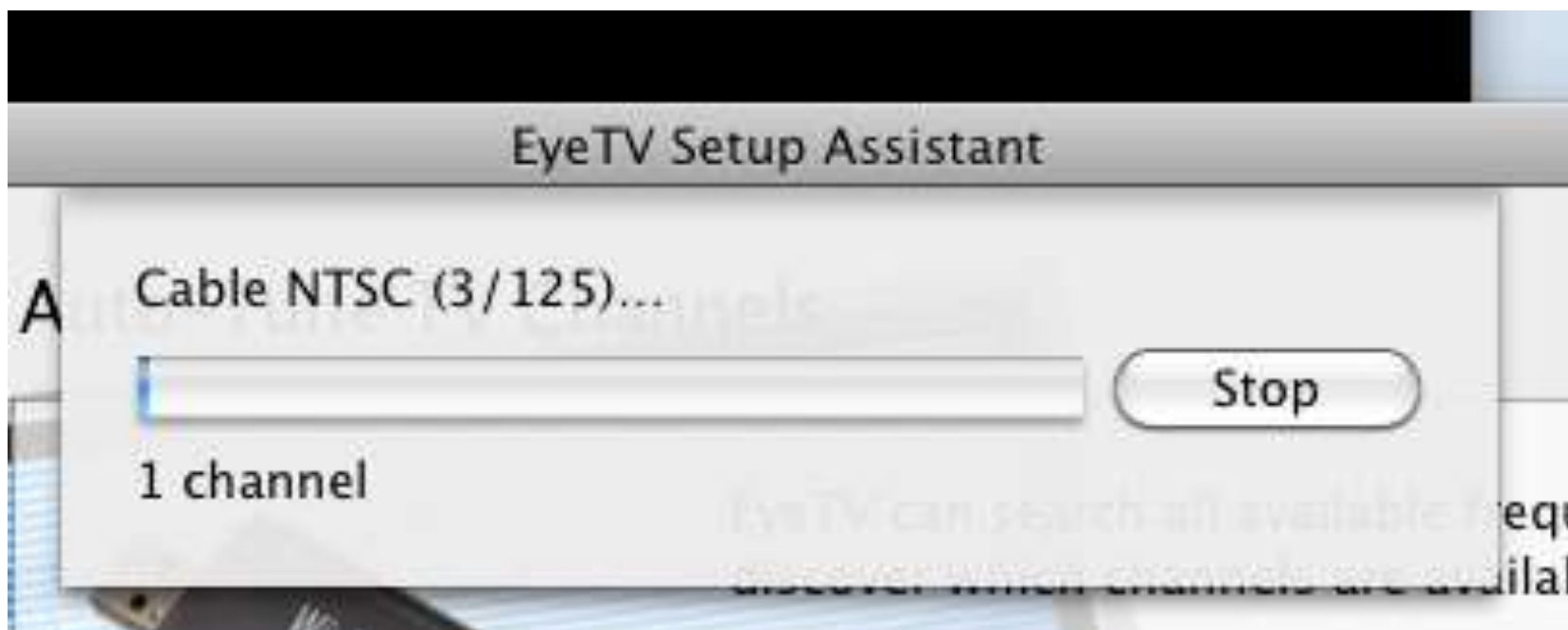


Auto-Tune found 57 channels.  
Did you expect to find more? [Click here for help.](#)









## EyeTV Setup Assistant

### Auto-Tune TV Channels



EyeTV can search all available frequencies to discover which channels are available in your area.

Select a service below, then click Auto-Tune.

Service: Cable

Auto-Tune...



Auto-Tune found 4 channels.  
Did you expect to find more? Click here for help.

Cancel

Previous

Next





**Administrator access is required to install a component of the EyeTV software. Type your password to allow EyeTV to make changes.**

Name:

Password:

► Details



Cancel

OK



EyeTV - 40-2 Telemundo ExitosTV



iChat







## On Screen Controller

### How do I use the On Screen Controller?

#### ① EyeTV Information Display

This area displays the name of the program currently being watched or recorded, the elapsed time, and the channel on which the program is playing. Clicking the time display toggles between elapsed time, total time, and time remaining.

② **EyeTV Programs** - Click this button to bring up the EyeTV Programs window, which displays all of the Recordings, Schedules, Playlists, Favorite Channels, and the Program Guide.

③ **EyeTV Menu** - Click this button to bring up the EyeTV On Screen Menu over the current player window.

④ **Channel Number** - Click to use a drop-down menu to switch to any available channel.

⑤ **Current Channel List** - Use this drop-down menu to switch between Favorite Channel lists, and all channels.

⑥ **Channel Down** - Click this left facing triangle to



⑧ **Time Slider** - This bar gives a visual representation of your current position in the show. For example, you are at the beginning of the show when the bar is at the left edge of the timeline and you are at the end of the show when the bar fills the timeline. Click anywhere inside the slider to jump to any part of the recording; click and drag to scan through the program.

#### Timeshifting Control Buttons

⑨ **Play/Pause** - Click this button to play/pause the current program. In the case of live television, EyeTV keeps recording the live feed onto your disk. The pause time remaining for your now timeshifted show depends on the free space available on your disk.

⑩ **Record** - Clicking this button starts or stops recording the current program. The record button is highlighted pink during a recording. By default, the manually started recording's duration is set to 180 minutes (3 hours). If you want to record a longer program, please highlight the recording in the Recording section of the EyeTV Programs window, press the Info button, and edit the schedule there.

Many EyeTV units have only one tuner, and can only handle one video source at a time. Thus, channels and inputs cannot be changed while recording. Once a recording has started, the Live TV Buffer is flushed so you cannot skip backwards beyond the start time of the recording.

## ① EyeTV Information Display

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④ **Channel Number** - Click to use a drop-down menu to switch to any available channel.

⑤ **Current Channel List** - Use this drop-down menu to switch between Favorite Channel lists, and all channels.

⑥ **Channel Down** - Click this left facing triangle to switch to the next lower channel.

⑦ **Channel Up** - Click this right facing triangle to switch to the next higher channel.



or the show when the bar is at the left edge of the timeline and you are at the end of the show when the bar fills the timeline. Click anywhere inside the slider to jump to any part of the recording; click and drag to scan through the program.

## Timeshifting Control Buttons

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⑪ **Instant Replay** - Clicking this button will rewind the current program 7 seconds and continue playing, creating an "instant replay" effect. Clicking

this button while holding down the **Option** key starts playing the current program from the beginning.

⑫ **Jump** - Clicking this button will fast-forward the current program 30 seconds and continue playing. This is useful for jumping over less desirable content. Clicking this button while holding down the **Option** key resumes watching live television.

⑬ **Fast Backward** - Click this button to play the current program in reverse at high speed. Clicking this button while pressing the **Option** key plays the current program in reverse in slow motion. 2x, 4x, 8, 16x, 32x speeds are available.

⑭ **Fast Forward** - Click this button to play the current program at high speed. Clicking this button while pressing the **Option** key plays the current program in slow motion. 2x, 4x, 8, 16x, 32x speeds are available.

⑮ **Volume Control** - Use this curved slider to control the volume of the program being played.

⑯ **Mute** - Click this button to mute the sound, click it again to turn it back on.

### Tip:

Use EyeTV's Window menu to hide or show the On Screen Controller.

While EyeTV is recording, the EyeTV icon in the Dock displays a red dot in place of the On Screen Controller.

# SOFTWARE PROGRAMS FOR VIRTUAL TVs (continued)

## – Mac "OS X" computers (continued)

### ○ Equinox's "The Tube"

<http://www.equinox.com/us/products/thetube/index.html>

See the negative comments at  
<http://www.avsforum.com/t/1276495/the-tube-software>

# APPENDIX 1

## USB TUNERS THAT DID NOT WORK FOR US

- The ASUS "My Cinema-U3100MINI PLUS" did not work for us in either "Windows 7" or "Windows 8" even with ASUS stating on their Web site that this device is compatible with "Windows 7".

**ASUS**  
Inspiring Innovation • Persistent Perfection

# HDTV on PC

ATSC/QAM with Ultra Mobility

My Cinema-U3100MINI<sup>Plus</sup>

Ready for  Windows 7



**Windows 7 / Vista / MCE / WinXP SP2 Compatible**



Watch and Record  
Digital (ATSC & QAM) TV



Scheduled Recording &  
Time shift support



LED indicates  
TV Signal Strength



USB 2.0 Interface  
for PC & NB

**GadgetV**

**Pop-UpTV**



Inspiring Innovation • Persistent Perfection

# HDTV on PC

ATSC/QAM with Ultra Mobility

My Cinema-U3100MINI<sup>Plus</sup>

## Easily enjoy digital TV on your computer.

- Watch digital (ATSC/QAM) TV programs anywhere  
("ATSC" digital TV over the air or "Clear QAM" digital TV via a standard coaxial cable)
- Consumes less power thus prolonging the battery life
- LED light for easy checking of the TV's signal strength
- Supports H.264 TV programs (Intel Core 2 Duo 2.0GHz or above CPU needed)
- Supports scheduled recording & time shifting

Note: Before using this device, ensure ATSC/QAM broadcast service in your area or region or check on <http://www.antennaweb.org> for available channels

## ASUS GadgeTV Technology

- The ASUS GadgeTV technology allows you to automatically launch a sidebar TV at startup on Windows® Vista OS & Windows.7



## ASUS Pop-Up TV Technology

- The unique built-in ASUS Pop-Up TV technology instantly displays TV channels without requiring manually



### System Requirements:

- Notebook: Pentium M 1.3GHz or above
- PC: Pentium 4 2.6GHz/AMD K7 or above
- One available USB2.0 port
- Minimum system memory: XP:256M ; Vista /Windows 7: 512M
- Minimum video memory: XP: 32M ; Vista /Windows 7: 128M
- Minimum hard drive space: XP :1G ; Vista /Windows 7 :15G
- CD-ROM drive for driver installation
- Media Player 9 or above
- Direct X-compatible audio solution
- Microsoft Windows XP (Home or Professional edition)/ Vista/ Windows7



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MADE IN CHINA