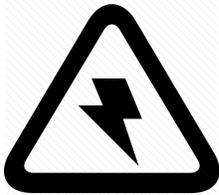


AFN7500HD USER MANUAL



Safety Precautions

CAUTION:		
		
<p>The lightning flash symbol, within an equilateral triangle, is intended to alert the user to the presence of dangerous voltage and to prevent from risk of electric shock.</p>	<p>Warning:</p> <p>To reduce the risk of electric shock, don't open the cover or cabinet. Refer servicing to qualified personnel only.</p>	<p>The exclamation point within an equilateral triangle is intended to alert the user to important operating and maintenance (servicing).</p>

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined

by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measure:

1. Increase the separation between the equipment and receiver.

WARNING: The Decoder should not be exposed to dripping or splashed liquids.

No objects filled with liquids, such as vases, should be placed on the Decoder.

WARNING: Do not put a candle or lamp on the housing, as this can cause a risk of fire.

WARNING: The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. If you are not sure of the type of power supply to your home, consult your local dealer or power company.

WARNING: Do not open the housing on this unit, as this may expose you to dangerous voltages and radiation.

WARNING: The battery of remote control should not be exposed to excessive heat such as sunshine, fire, or the like.

Unit Cleaning: After the unit power is turned off, you can clean the housing, panel and remote control with a soft cloth lightly moistened with a mild detergent solution.

Attachments: Never add any attachments and/or equipment without the manufacturer consent; as such additions may result in the risk of fire, electric shock or other personal injury.

Locating: Slots and openings in the housing are provided for ventilation to protect it from overheating. Do not block these openings or allow them to be blocked by placing the Decoder on a bed, sofa or other similar surface, nor should it be placed over a radiator or heat register.

Power Cord Protection: Place the power supply cord out of the way, where it will not be walked on. Please take special attentions to cords at plugs, convenience receptacles and the point where they exit from the unit.

Object and Liquid Entry: Never put objects of any kind into this Decoder through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill any liquid on the Decoder.

Note: Moisture may be formed inside the unit in the following conditions:

1. When the unit is suddenly moved from a cold environment or an air-conditioned room to a warm place.
2. Immediately after a heater has been turned on.
3. In a steamy or very humid room.

If the moisture forms inside the unit, it may not operate properly. To correct this problem, turn on the power and wait about two hours for the moisture to evaporate.

Parts Replacement: When parts need to be replaced, user should make sure the service technician use the replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized replacement may put the unit in the risk of fire, electric shock or other hazards.

Any decoder being sold or transferred should be reset to factory default settings to eliminate any PIN, Channel Lock, or other user preferences.

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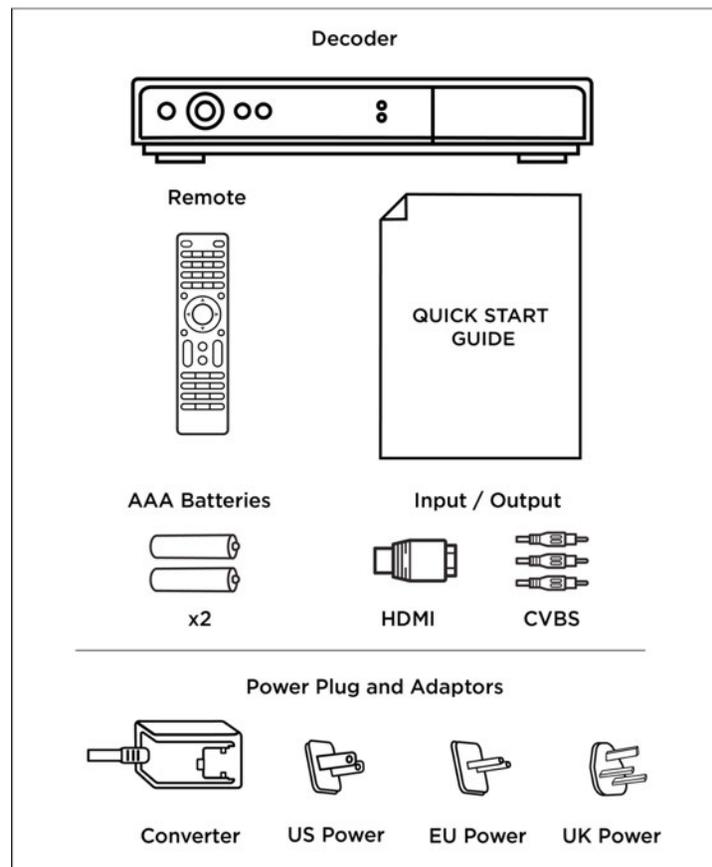
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Start Here

Your AFN7500HD decoder must be registered and activated prior to use. Register at the “Manage My Decoder” link on <http://www.myafn.net>

More Info? Visit <http://www.myafn.net>, refer to the AFN Info section for the latest help, manuals, fact sheets, and other useful tips.



Items in the Decoder Box

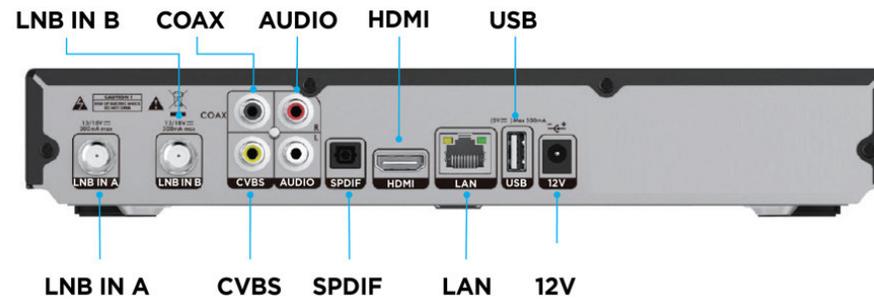
Unit and Remote Control Hardware

Decoder Front Panel



Indicator	Light
Green LED	Signal Lock
Red LED	Decoder Standby

Decoder Rear Panel



Port	Description
LNB IN A	Satellite Signal Input A
LNB IN B	Satellite Signal Input B
CVBS	Composite Video Broadcast Signal Output
COAX	Coaxial Connection for Digital Audio Output
AUDIO	Analog Audio Output
SPDIF	Optical Cable for Digital Audio Output
HDMI	HDMI Cable Output
LAN	Network Cable Connection (inactive)
USB	USB 2.0 Port
12V	Power Regulator Connector/Converter

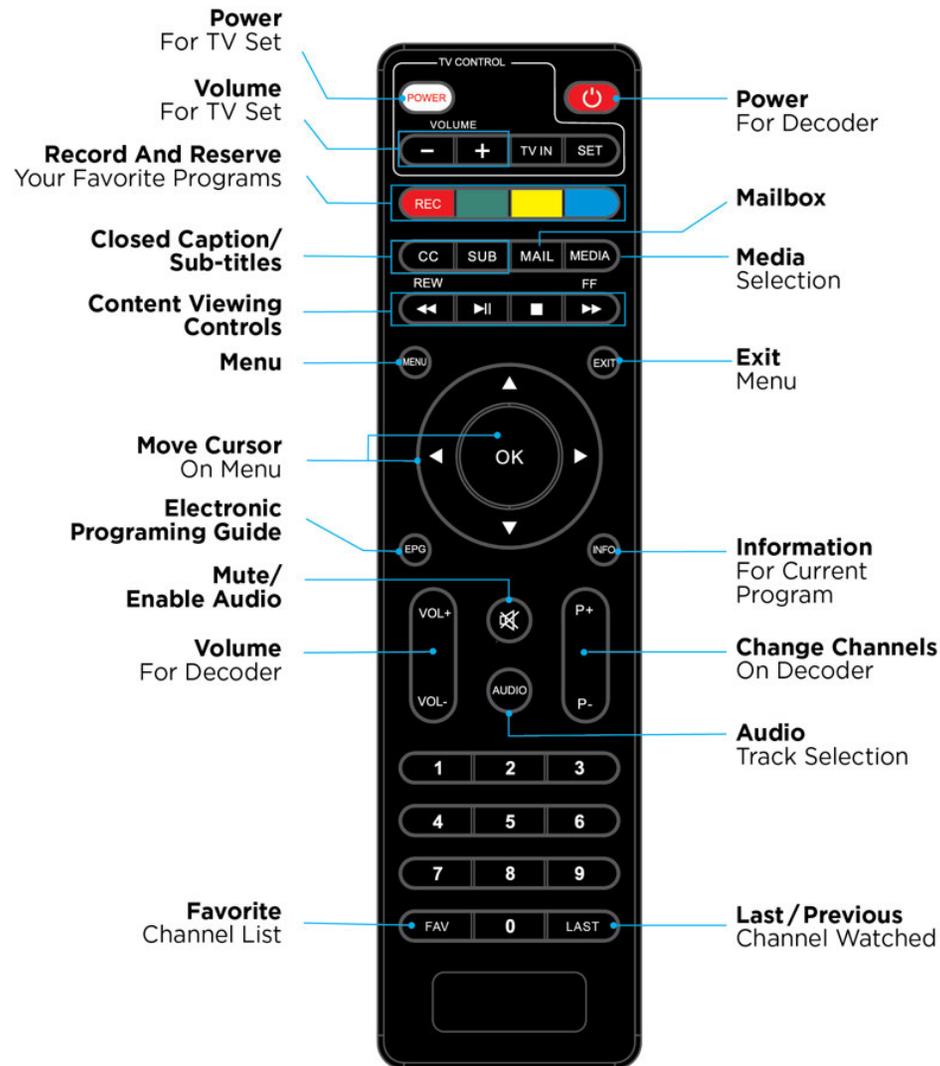
Notes:

Connect your satellite antenna to 'LNB In A'. There is currently no reason to connect to "LNB In B".
HDMI provides the best quality output to your television.

The USB port is only used for manual firmware upgrades, and cannot be used for additional DVR storage.

The LAN port is currently inactive.

Remote Control



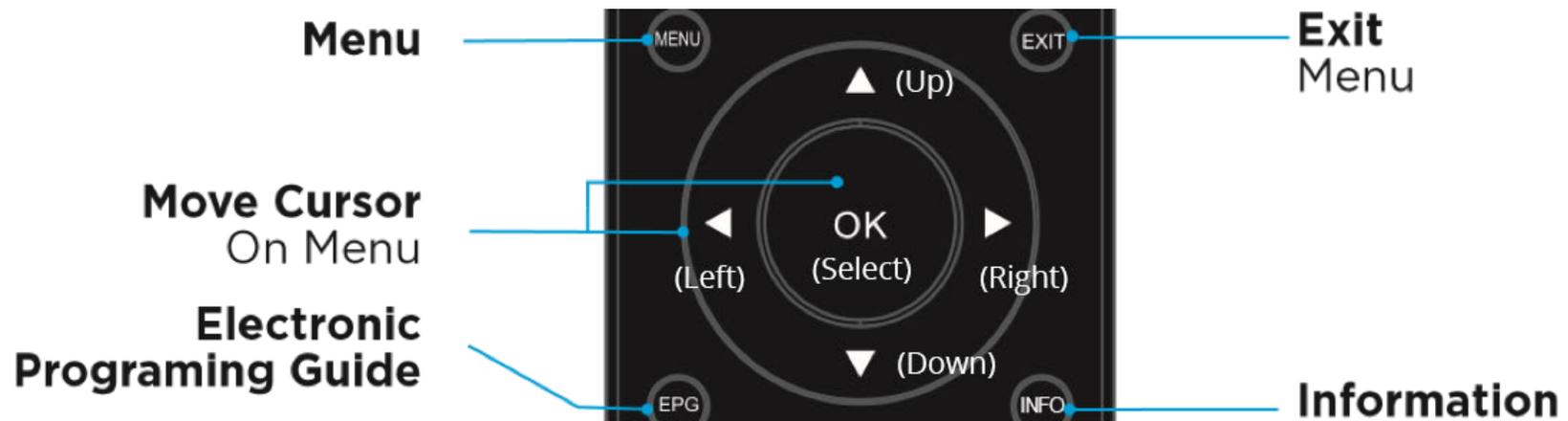
Currently, the Green, Yellow, and Blue buttons next to the Red REC button are not being used for any functions.

Initial Setup

Congratulations on receiving your new Decoder!

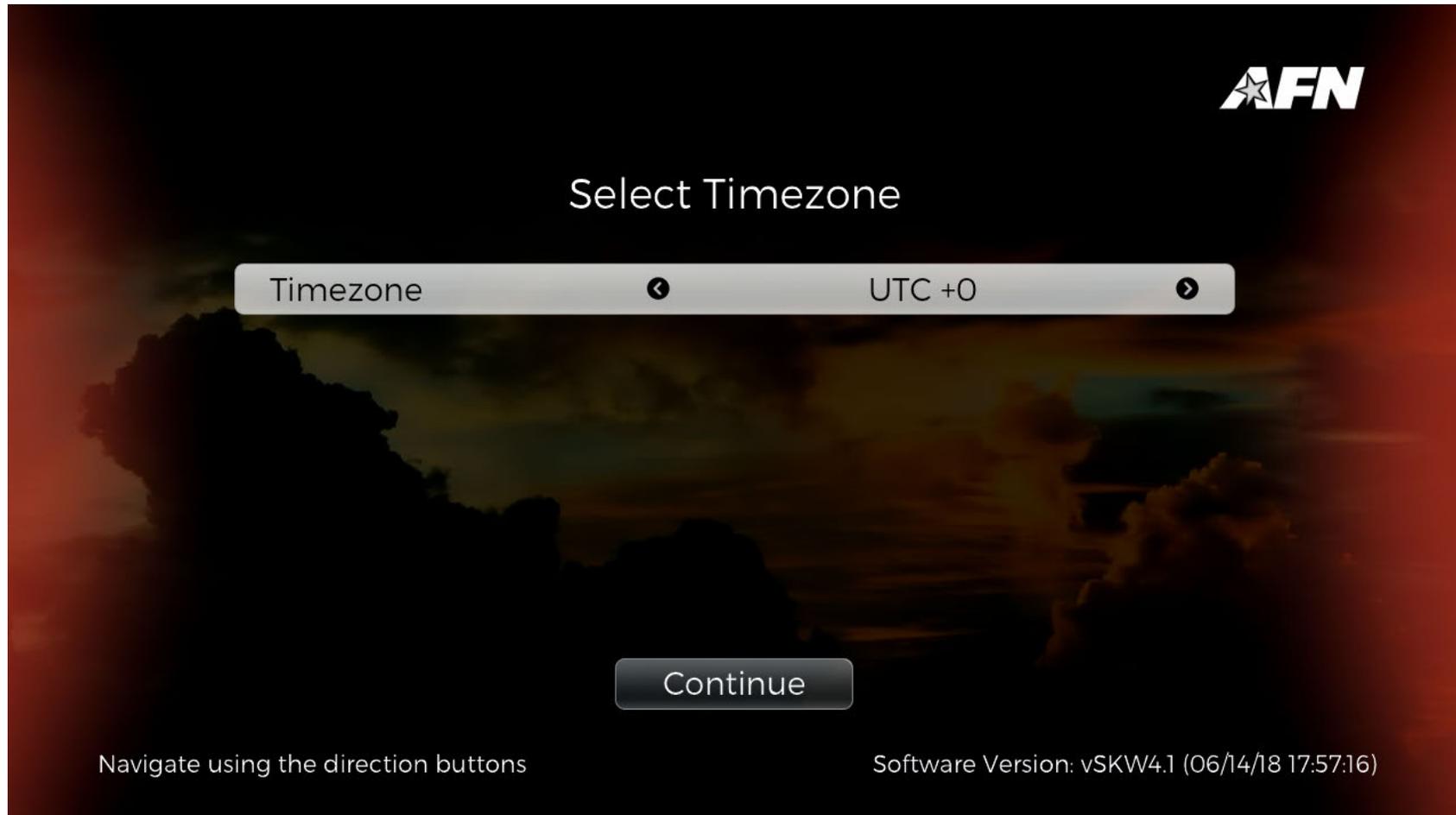
Correctly connecting the various cables and power supply is the first step to get your decoder setup. Refer to the previous section “Decoder Rear Panel” to identify and find the proper locations to connect all cables. Connect either the HDMI or CVBS cable from the decoder to your television. Next, connect the satellite input cable from your satellite dish to the “LNB IN A” connector. Finally, connect the power supply to the 12V power port connection on the decoder and then turn the power on. Your decoder comes with plug adapters for United States, European, and United Kingdom wall-mounted power outlets.

Next, you’ll need to set up the decoder to acquire the AFN satellite signal using the circular navigation wheel on your decoder’s remote control. The main buttons you’ll use on the remote control are identified below.



(The Navigation circle, menu, and exit button can also be found on the front of your decoder)

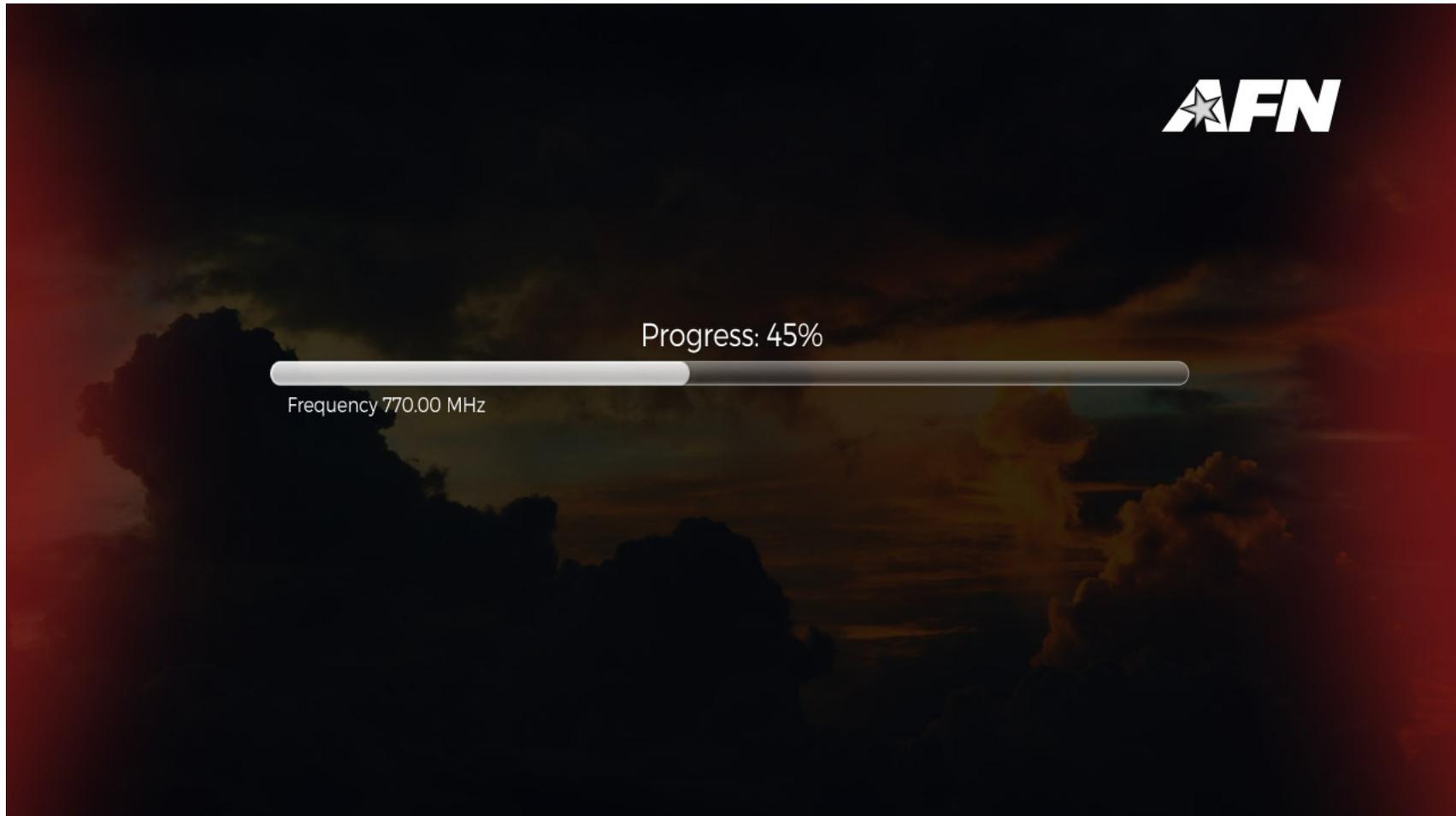
The first screen you'll see allows you to select your time zone. A map of all time zones linked to UTC can be found at <https://www.timeanddate.com/time/map/>



Next, you need to select the correct satellite. The latest decoder settings guides for each satellite AFN uses to deliver content worldwide are available for download at <http://www.myafn.net/>. At the time of updating this User Guide, this information is also included on page 71 of this manual. Note for the below image, Eurobird 9B listed is actually Eutelsat 9B.

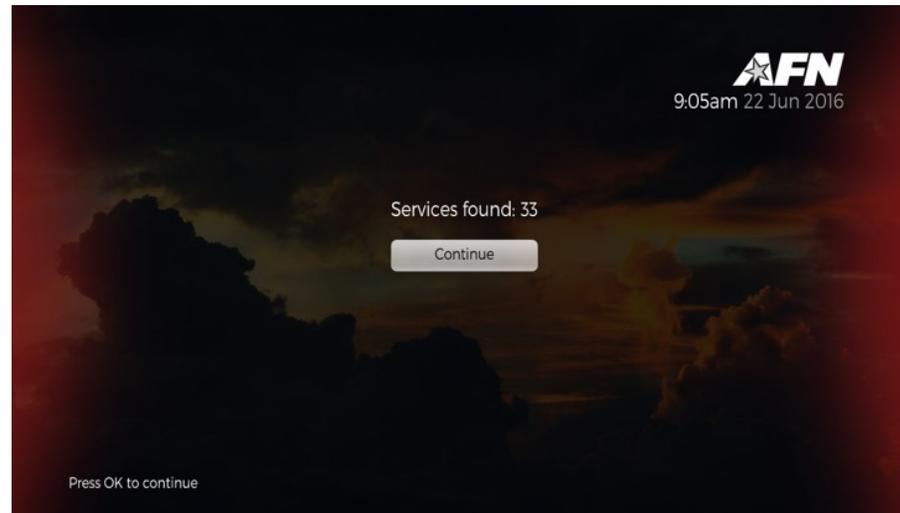


LNB, Transponder, and DiSEqC1.1 do not need to be altered. Press 'Continue' to proceed.

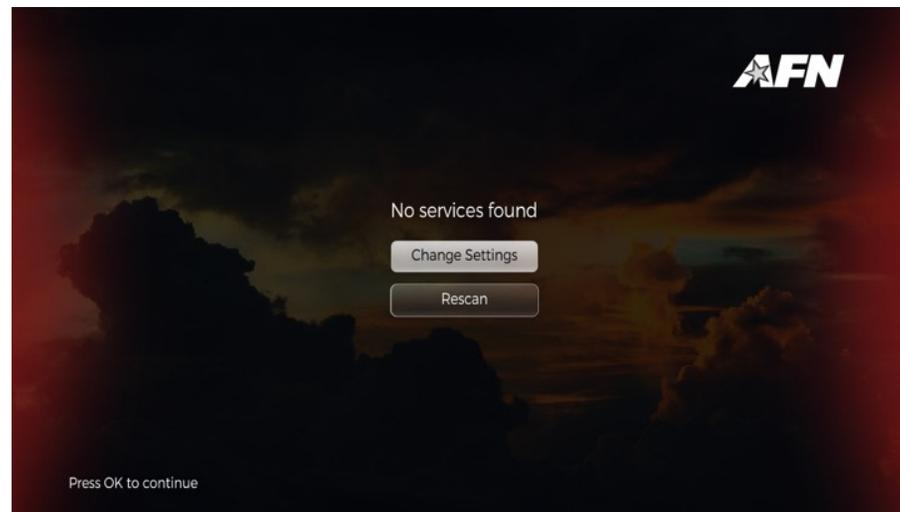


From here, you'll be taken to a progress bar screen.

Once the scan is complete, you will then be notified how many services were found.



The number of services found will depend on your location and satellite/transponder.



If no services are found, please contact the AFN Helpdesk at (951) 413-2339 or via email at sathelpdma@mail.mil for assistance troubleshooting problems you may encounter.

After selecting continue, the current live TV program will appear on the screen.

Basic Operations

Standby and On Modes

Your Decoder has four power modes:

1. Standby and Sleep mode: turns off the HDMI, CVBS, and audio outputs. It also disables the remote functions except for the power on and off. The red standby LED illuminates and the LED displays the current time. Internally the 7500 continues to process the signals and all pertinent data processing, including scheduled recordings.
2. On mode: This is when the power cable is plugged into a wall outlet, and the user has pressed the [Standby] button on the front of the Decoder or the [Power] button on the remote control. In On mode, the Decoder will output video and audio to your TV and will be operational. Press the [Power] button on the remote control while in On mode to return the unit to Standby mode.
3. Off mode: This is only when the power cable is unplugged. There is no on/off switch on the unit. Please be advised, unplugging your decoder will prevent updates from downloading and installing on your decoder, which may result in the loss of authorization and take several hours to resolve. We recommend you always leave your decoder in standby mode when not in use. Upgrades and key loss are mutually exclusive issues. Unplugging the decoder may cause one or the other, or both to fail, however not receiving a download, in and of itself, does not cause a loss of authorization.

Auto Standby and Sleep Time

In the Settings Menu under '**Time**', you can set when Decoder goes into Auto Standby and Sleep Time.

The '**Auto Standby**' function allows the user to set the period of time after which the Decoder goes into Standby mode.

The '**Sleep Time**' function allows the user to set a time period after which the Decoder will go into Standby mode if there has been no activity on the Decoder.

Watching and Recording Live TV

To watch live TV, press [EXIT] while in any menu.

Viewing Program Information

While watching a program, press [INFO] to open the information bar. This bar will show the current channel number, the channel ID, the title of the current and next program on the channel, the program's audio format, and duration of the program. It will also indicate if the Decoder has detected Electronic Program Guide (EPG) or Closed Captioning (CC) content. Press [INFO] again to open a window with extended EPG information, if available. Press [INFO] or [EXIT] to close the window.

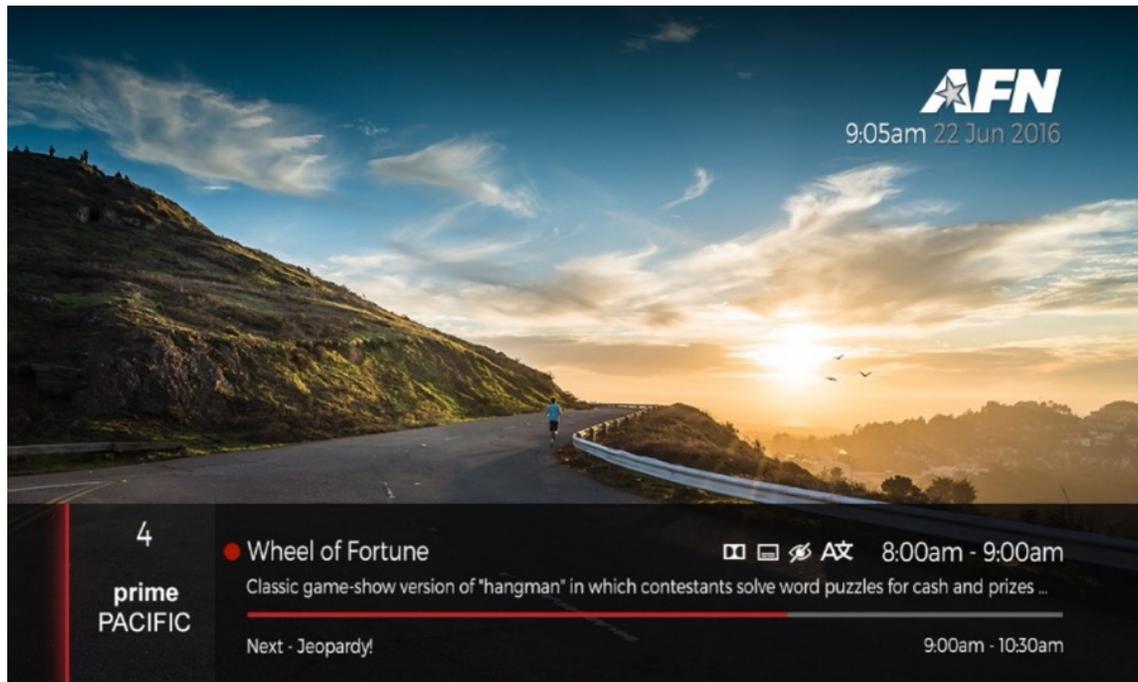


Figure 1: Live TV with information window

Controlling Playback with Time Shift

When watching live TV, pressing [PLAY/PAUSE ►||] will start Time Shift, which allows the user to pause the current program, buffering it to internal storage. This allows the user to control live content.



Figure 2: Time Shift window

Using the Electronic Program Guide

Your Decoder can read metadata from incoming signals, allowing it to generate an Electronic Program Guide (EPG) with detailed information about programs such as name, description, start and finish time, rating, and more. This information is provided live via your satellite connection.

To open the EPG, press [EPG] while watching live TV or go to Guide in menu.

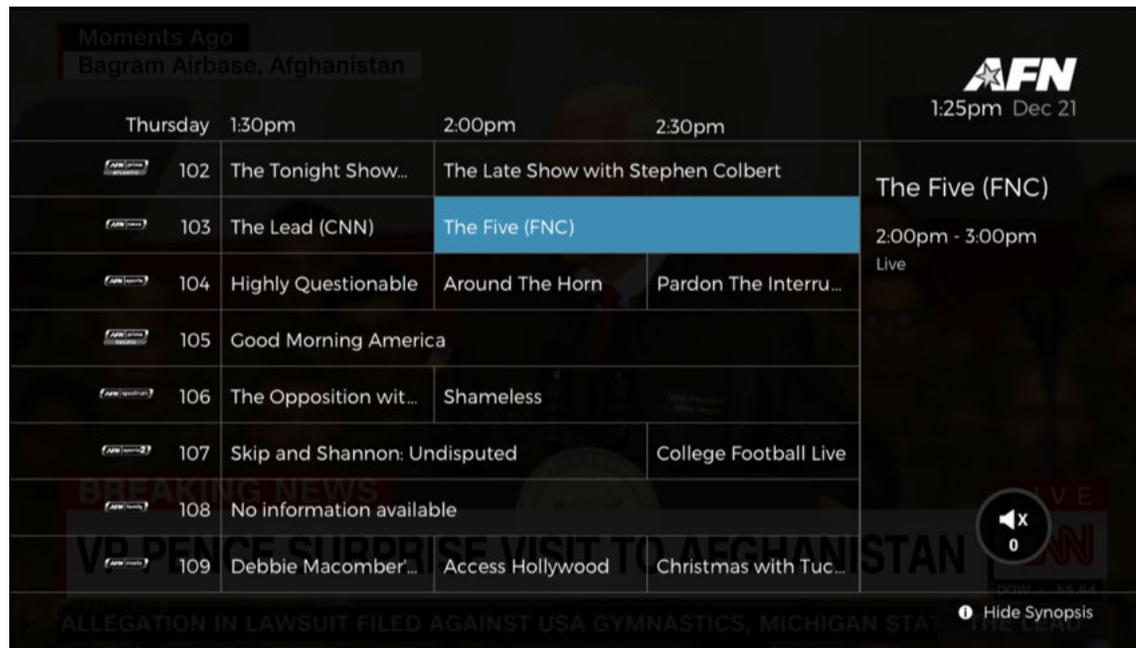


Figure 3: The Electronic Program Guide window

- You can highlight channels with [▲/▼] and navigate through past, current, and upcoming events with [◀/▶]. The highlighted event's information will be displayed in the right-side panel of the EPG window, and can be turned on or off by hitting the "Info" button on the remote.
- Press [OK] on any program allows the user to set a timer or recorder for the selected program.
- To close the EPG window, press [EXIT].

Setting a Reminder

Press the 'EPG' button and navigate to the program you wish to set a reminder for. To select the program, press the [OK] button.

Moments Ago
Bagram Airbase, Afghanistan

AFN
1:25pm Dec 21

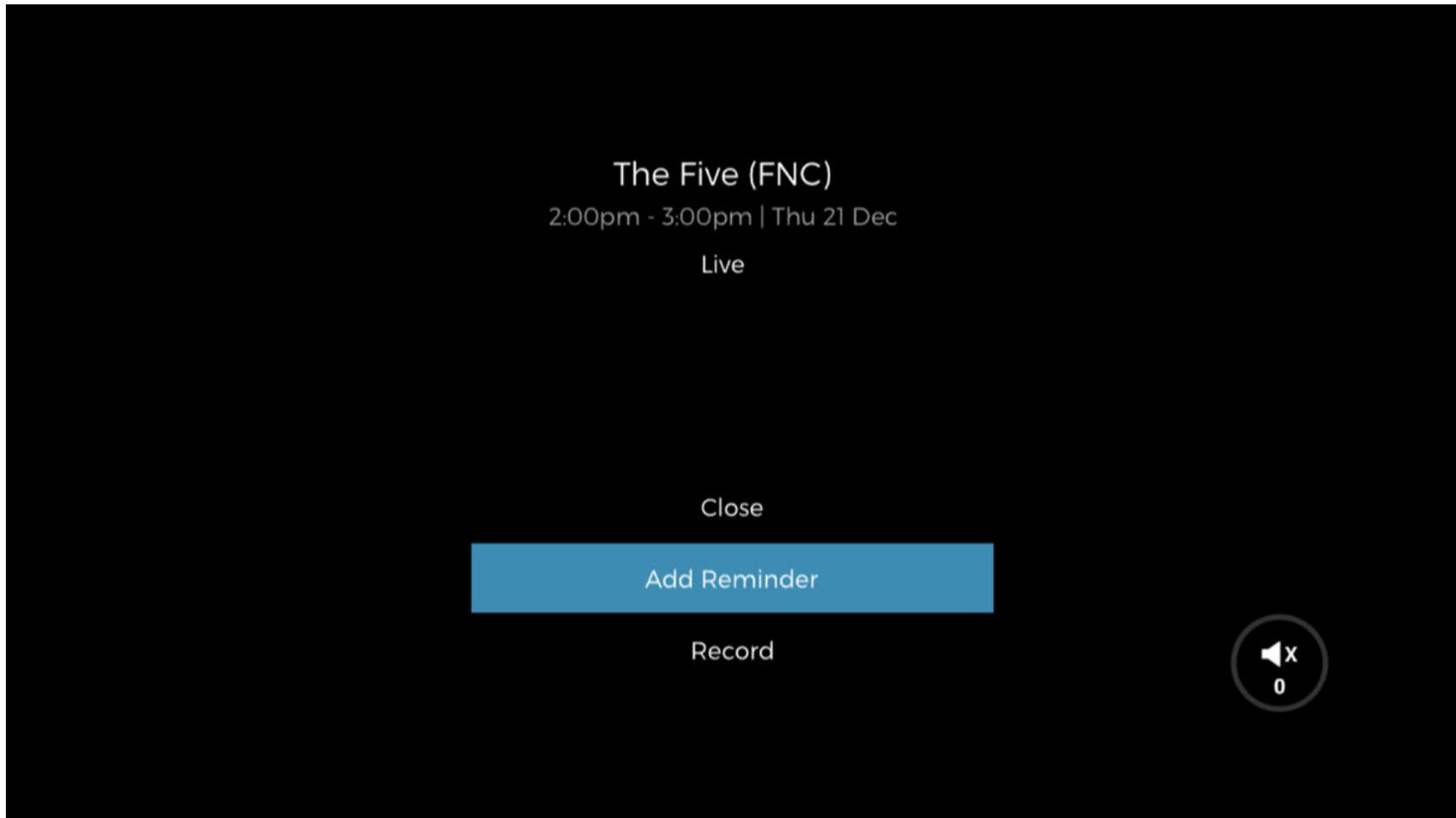
Thursday	1:30pm	2:00pm	2:30pm	
102	The Tonight Show...	The Late Show with Stephen Colbert		The Five (FNC) 2:00pm - 3:00pm Live
103	The Lead (CNN)	The Five (FNC)		
104	Highly Questionable	Around The Horn	Pardon The Interru...	
105	Good Morning America			
106	The Opposition wit...	Shameless		
107	Skip and Shannon: Undisputed		College Football Live	
108	No information available			
109	Debbie Macomber'...	Access Hollywood	Christmas with Tuc...	

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Hide Synopsis

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On the following menu, select 'Add Reminder'.

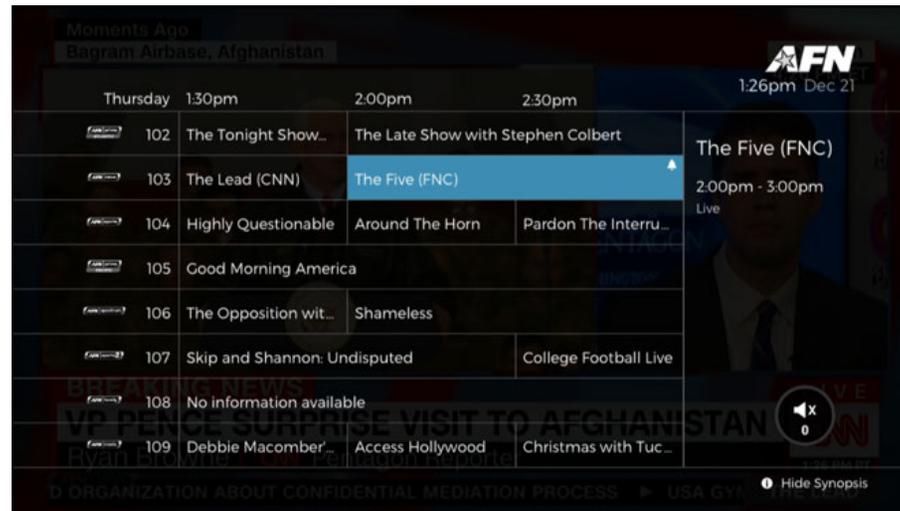


Programs with Reminders set will show a bell icon in the upper right of the channel selection box; as seen in the image below.

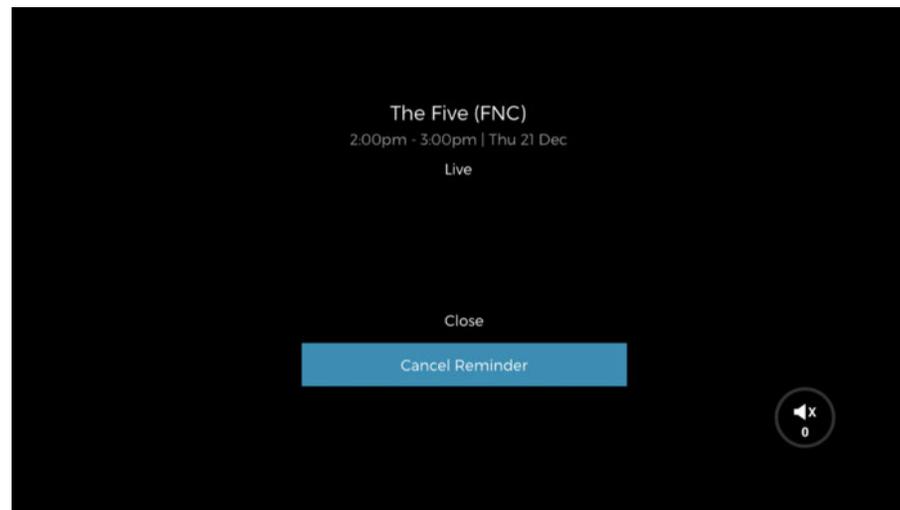


Cancel a Reminder

Press the **'EPG'** button and navigate to the program you wish to cancel a reminder for. To select the program, press the [OK] button.



On the following menu, select **'Cancel Reminder'**.



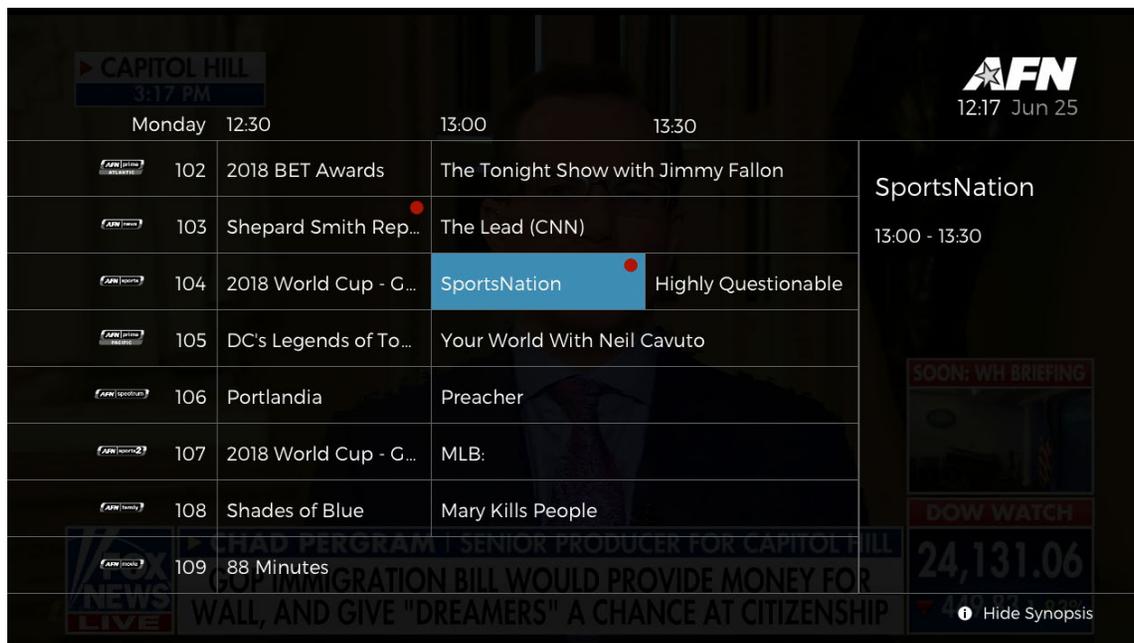
Recording Programs

Recording a program being viewed

Pushing [REC] on the remote during a program will record what is being viewed plus any buffer time. Recorded programs are viewable in the **'Library'** section of the menu.

Recording a program on another channel or future program

Press the **'EPG'** button and navigate to the program you wish to record. To record the program, press the [REC] button. A red dot will appear in the upper right corner of the selected program.



NOTE – Pushing [REC] on the remote while watching a program will cause the decoder to begin recording the live program from that point, provided a recorder is available. The “About to Start” message will display, shortly followed by the started message, shown below. The red dot will not appear until after the recording has started. Pressing the [REC] button again cancels the recording.

Program recording about to start message

			AFN		12:05 Jun 25
Monday	12:00	12:30	13:00		
	102	2018 BET Awards	The Tonight Show...	Portlandia 12:00 - 12:30 Fred and Carrie help Rachel navigate dating apps; Kathleen and Dave take on an escape room; Doug gives his friends benefit fatigue; Andy and Drew swear off women; Joey tries therapy.	
	103	Shepard Smith Reportina (FNC)	The Lead (CNN)		
	104	2018 World Cup - Group B:	Information SportsNation		
	105	DC's Legends of Tomorrow	Your program "Portlandia" is about to start Your World With N...		
	106	Portlandia	Portlandia Preacher		
	107	2018 World Cup - Group B:	MLB:		
	108	Shades of Blue	Mary Kills People		
	109	Tinker Tailor Soldier...	88 Minutes		

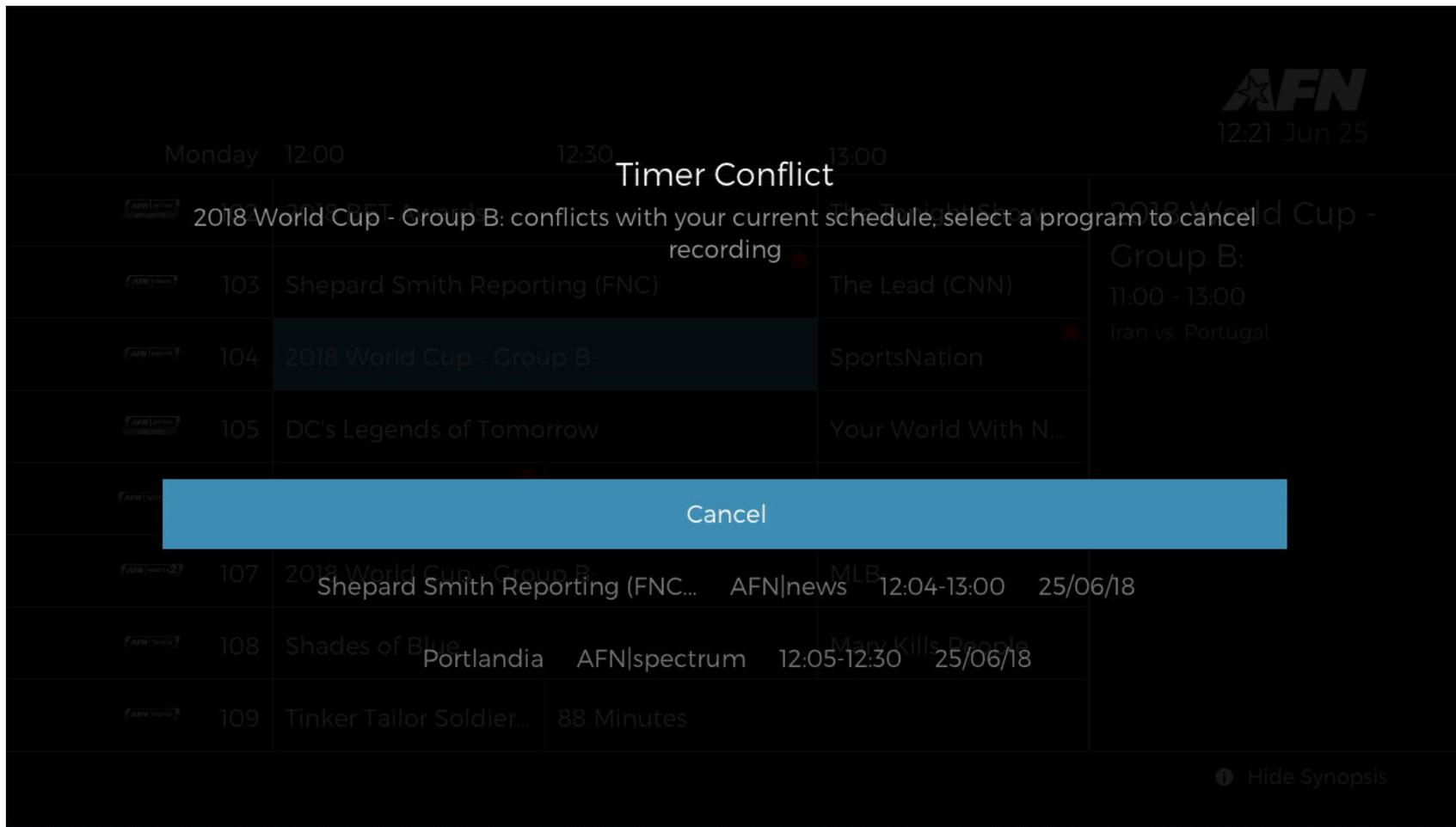
Program Recording Started message

				
			12:05 Jun 25	
Monday	12:00	12:30	13:00	
	102	2018 BET Awards	The Tonight Show...	<p>Portlandia</p> <p>12:00 - 12:30</p> <p>Fred and Carrie help Rachel navigate dating apps; Kathleen and Dave take on an escape room; Doug gives his friends benefit fatigue; Andy and Drew swear off women; Joey tries therapy.</p>
	103	Shepard Smith Reporting (FNC)	The Lead (CNN)	
	104	2018 World Cup - Group B:	SportsNation	
	105	DC's Legends of Tomorrow	Your World With N...	
	106	Portlandia	Preacher	
	107	2018 World Cup - Group B:	MLB:	
	108	Shades of Blue	Mary Kills People	
	109	Tinker Tailor Soldier...	88 Minutes	

 Hide Synopsis

Timer Conflict

Attempting to record a third program during the same time period will display the Timer Conflict message. This screen allows the viewer to select which of the three program recordings to cancel.



Cancel a Recording

Press the 'EPG' button and navigate to the program you want to cancel the recording for. To select the program, press the [OK] button.

Moments Ago
Bagram Airbase, Afghanistan

AFN
1:26pm Dec 21

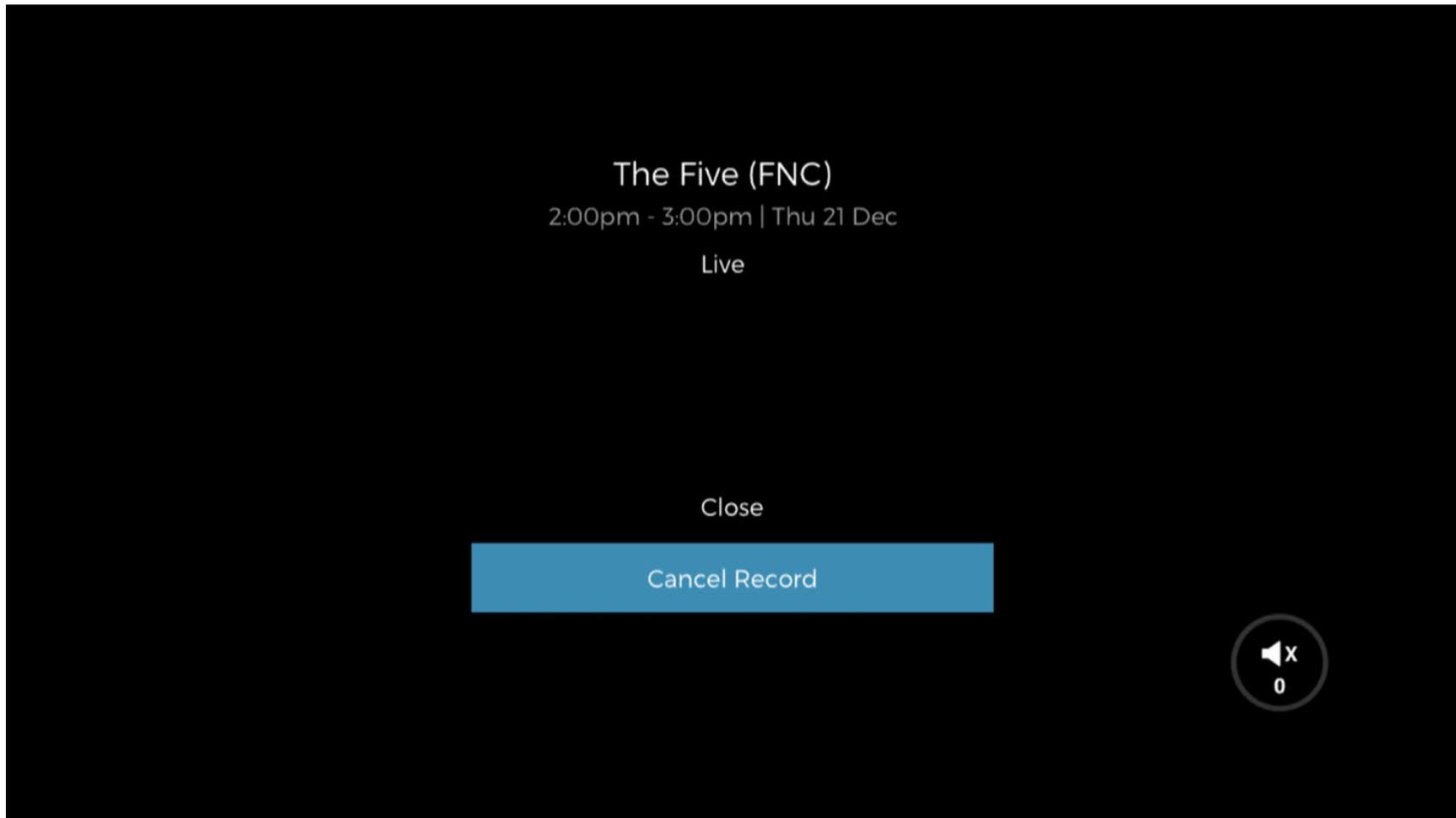
	Thursday	1:30pm	2:00pm	2:30pm	
	102	The Tonight Show...	The Late Show with Stephen Colbert		The Five (FNC) 2:00pm - 3:00pm Live
	103	The Lead (CNN)	The Five (FNC)		
	104	Highly Questionable	Around The Horn	Pardon The Interru...	
	105	Good Morning America			
	106	The Opposition wit...	Shameless		
	107	Skip and Shannon: Undisputed		College Football Live	
	108	No information available			
	109	Debbie Macomber'...	Access Hollywood	Christmas with Tuc...	

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Hide Synopsis

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On the following menu, select '**Cancel Record**'.



Favorites

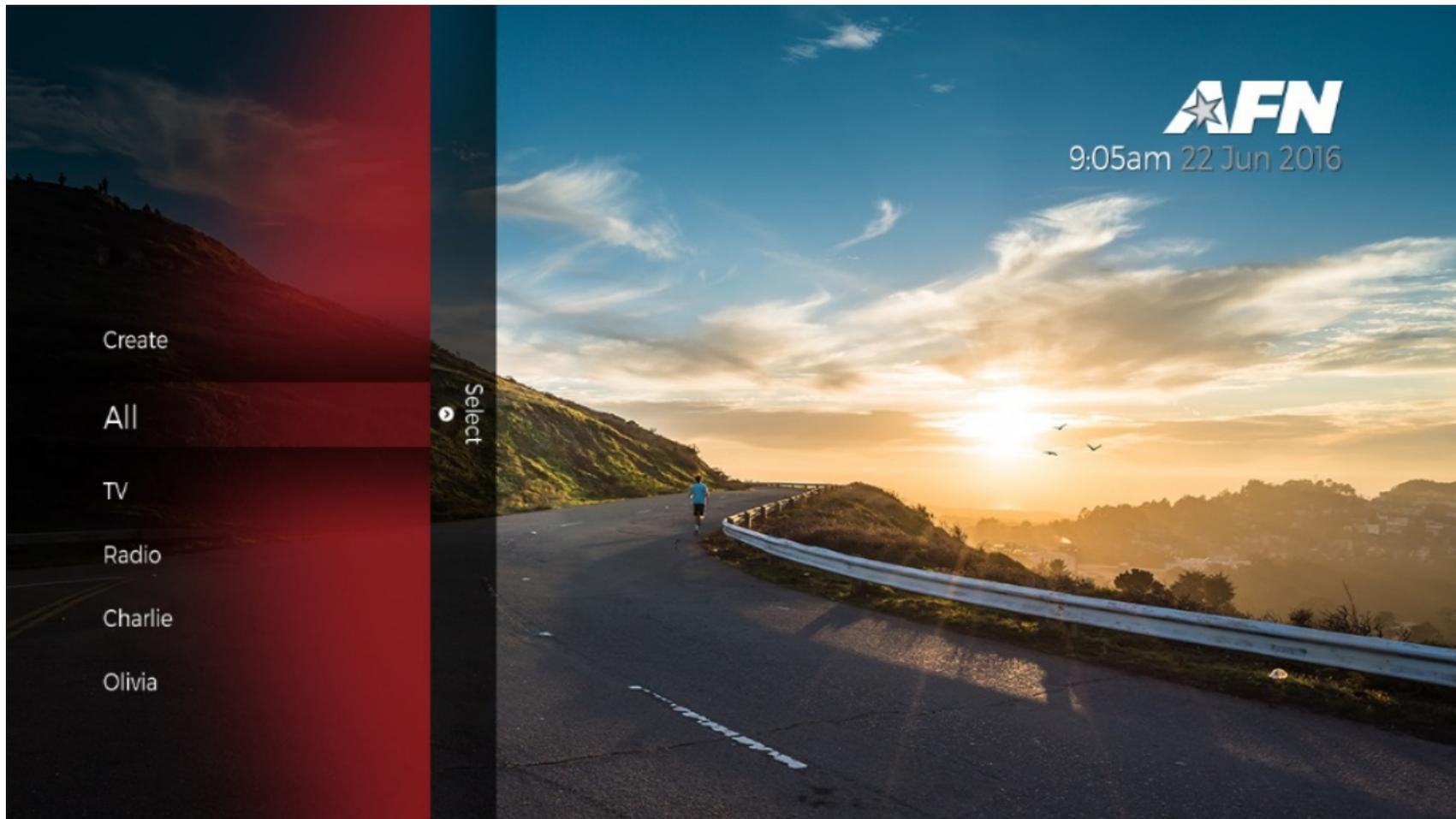


Figure 4: Favorites Window

With your decoder, you can create custom lists of channels called favorites. When watching live TV, you can switch from complete channel list (All TV) to these Favorites to display only specific channels in your TV Channel List and EPG.

To access the Favorites menu, press the [FAV] button on the bottom left of the remote.

The menu items are as follows:

1. Create – Create new named lists of favorites
2. All – Shows all favorites across all lists
3. TV – Shows all TV favorites
4. Radio – Shows all Radio favorites
5. Your Lists – Any user created lists will appear following the above.

To create a favorites list:

1. Open the Favorites menu by pressing [FAV].
2. Navigate to **'Create'** and press [OK].
3. Use the on-screen keyboard to type a unique name for your list.
4. Navigate to the **'Enter'** button on the on-screen keyboard to submit the name.
5. Use the arrow buttons to navigate through the channel listing and press [OK] to add channels to the list.
6. Press [Exit] to save changes.

To delete a favorites list:

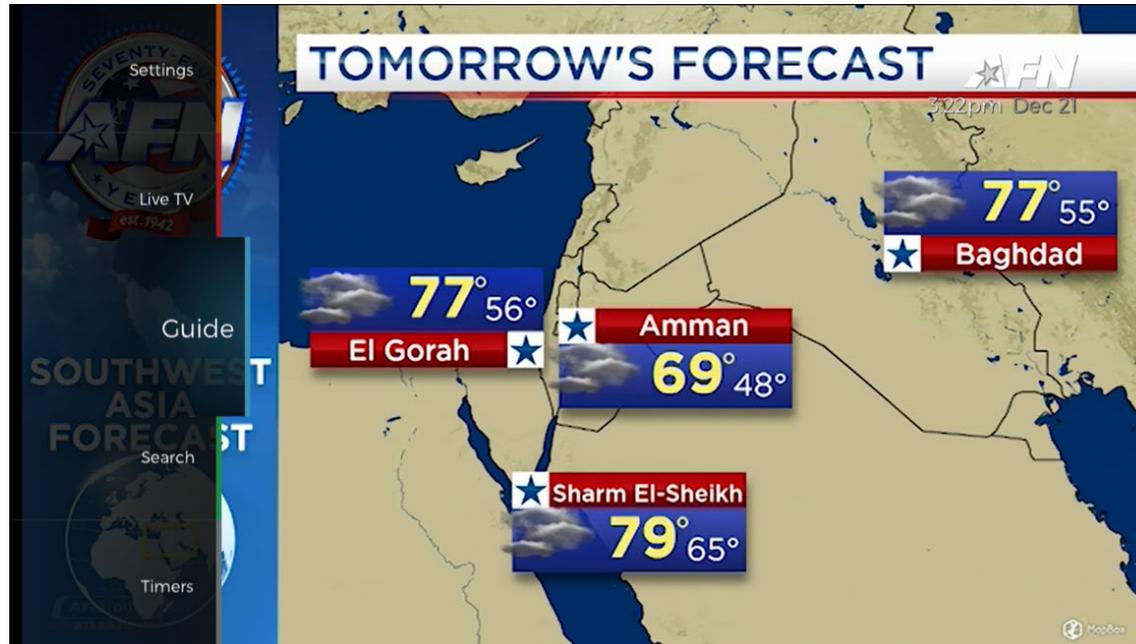
- Pressing the [FAV] key on the remote brings up a list of options for creating favorites and a list of created lists. To delete one of the favorites lists, select the desired list and then select the [DELETE] key.

Getting to Know the Menu

Select the [Menu] button on the remote to access the menu.

Guide

Select the [Menu] button on the remote to access the menu and use the [▲/▼] to navigate to '**Guide**' and press the [OK] button to select.



Use the up, down, left, and right arrows to view the program guide. For more information see the Electronic Programming Guide section of this User Guide.

		TODAY'S FORECAST			AFN	
Thursday		3:00pm	3:30pm	4:00pm	3:22pm Dec 21	
	102	Jimmy Kimmel Live!		Late Night with Set...	Jimmy Kimmel Live! 3:00pm - 4:00pm	
	103	Government Matters	NBC Nightly News	ABC World News T...		
	104	SportsCenter with Michael and Jemele				
	105	Today with Kathie Lee & Hoda		The View		
	106	Big Little Lies		Ballers		
	107	First Take				
	108	No information available				
	109	Christmas with Tucker		Marry Me At Christ...		

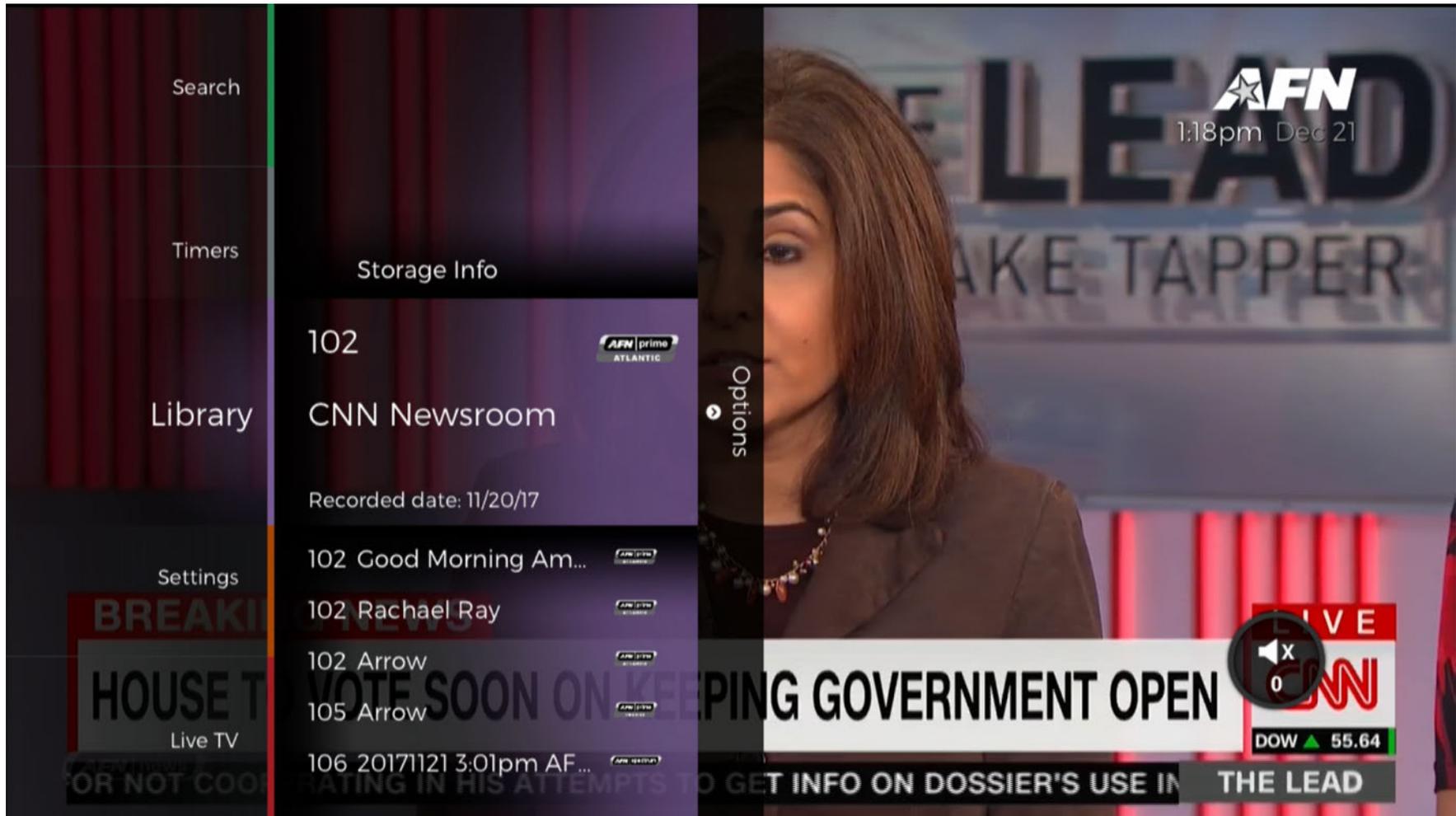
Hide Synopsis

Library

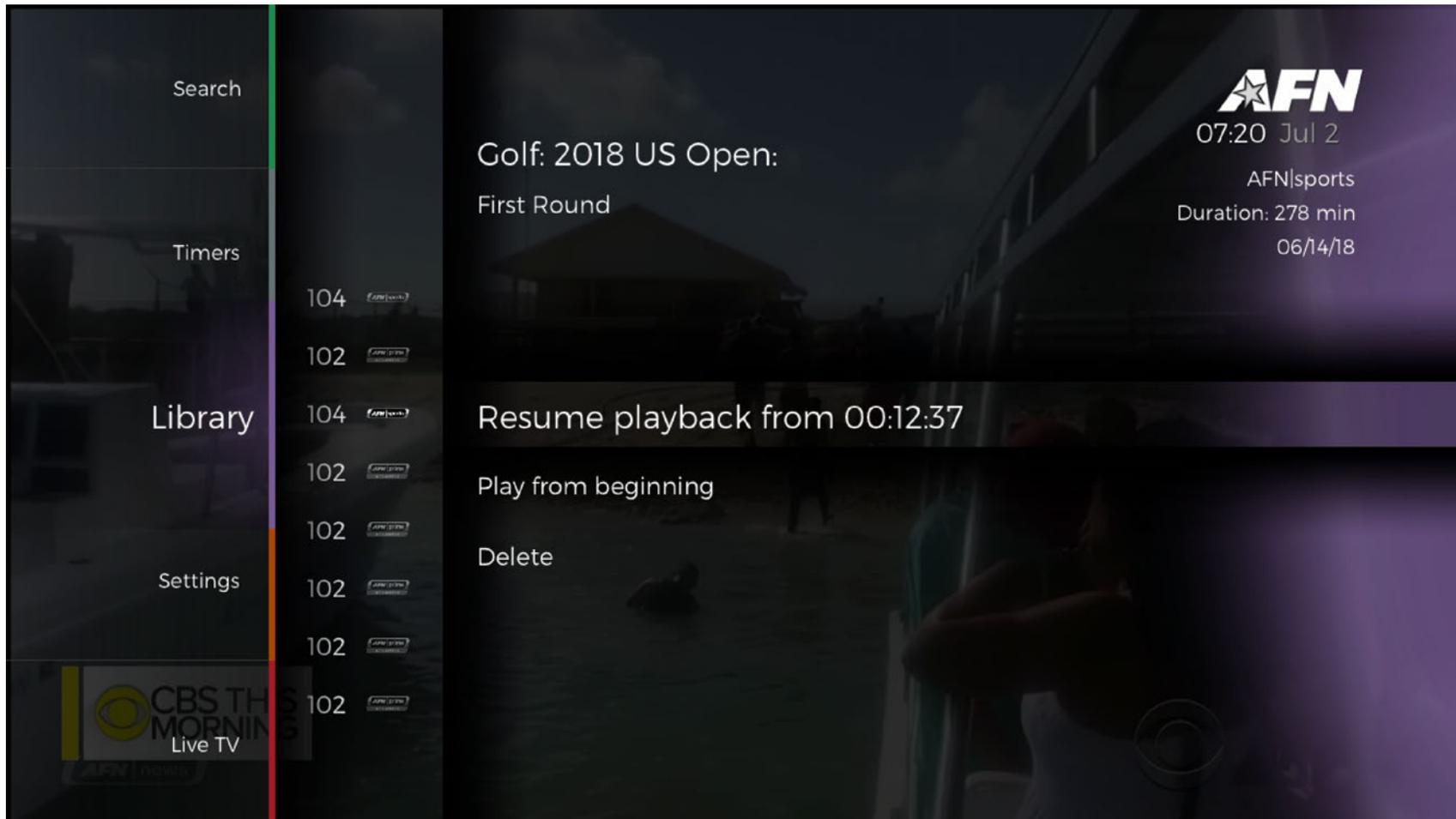
Select the [Menu] button on the remote to access the menu and use the [▲/▼] to navigate to '**Library**' and press the [OK] button to select.



Navigate to the program in the Library you wish to access and press the [OK] button.



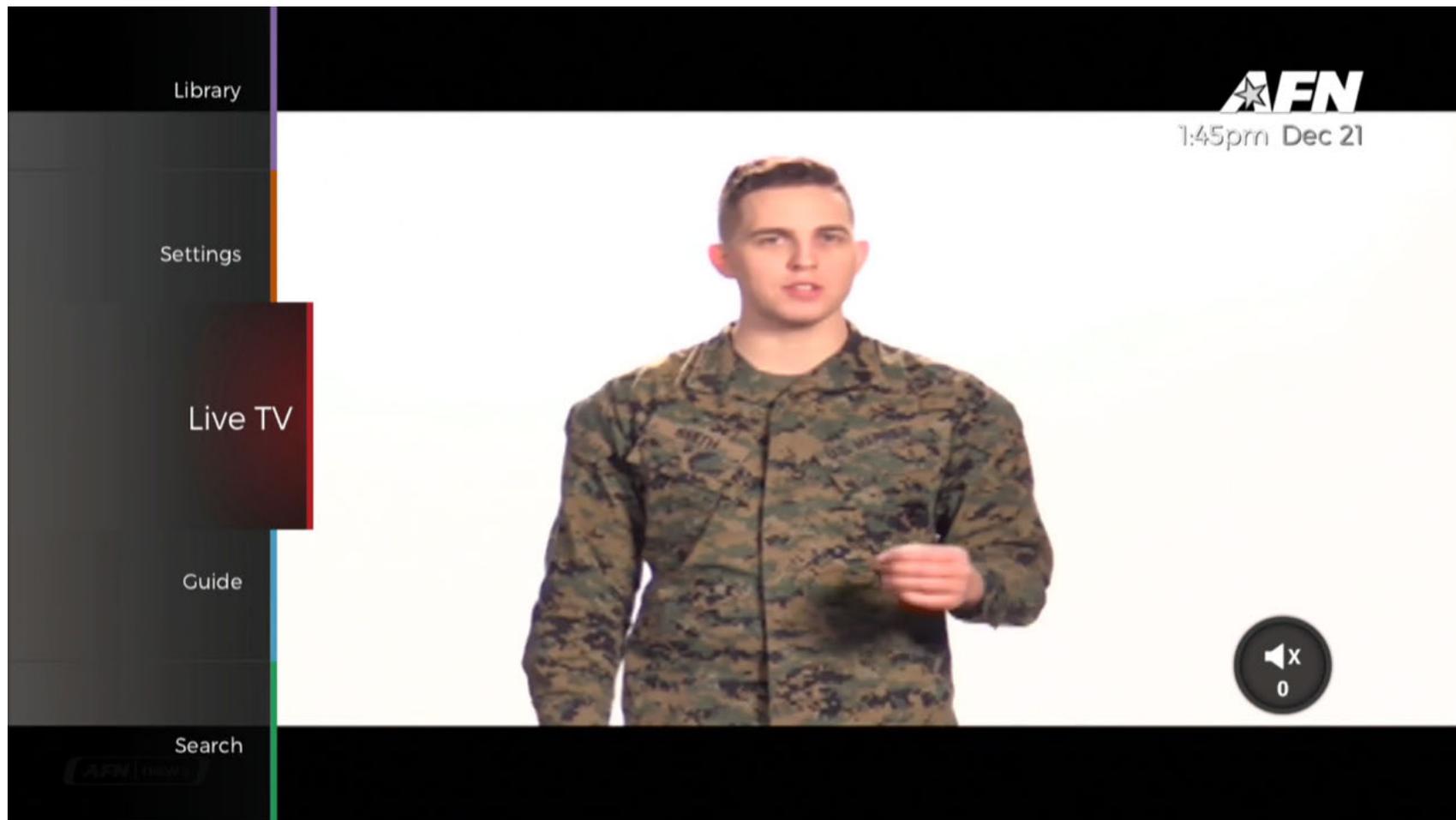
On the following menu, you can choose to either **'Play'** the selected content or **'Delete'** it. There is also an option to "Resume playback". If you choose to delete, a confirmation screen will appear to ensure that no content is accidentally deleted.



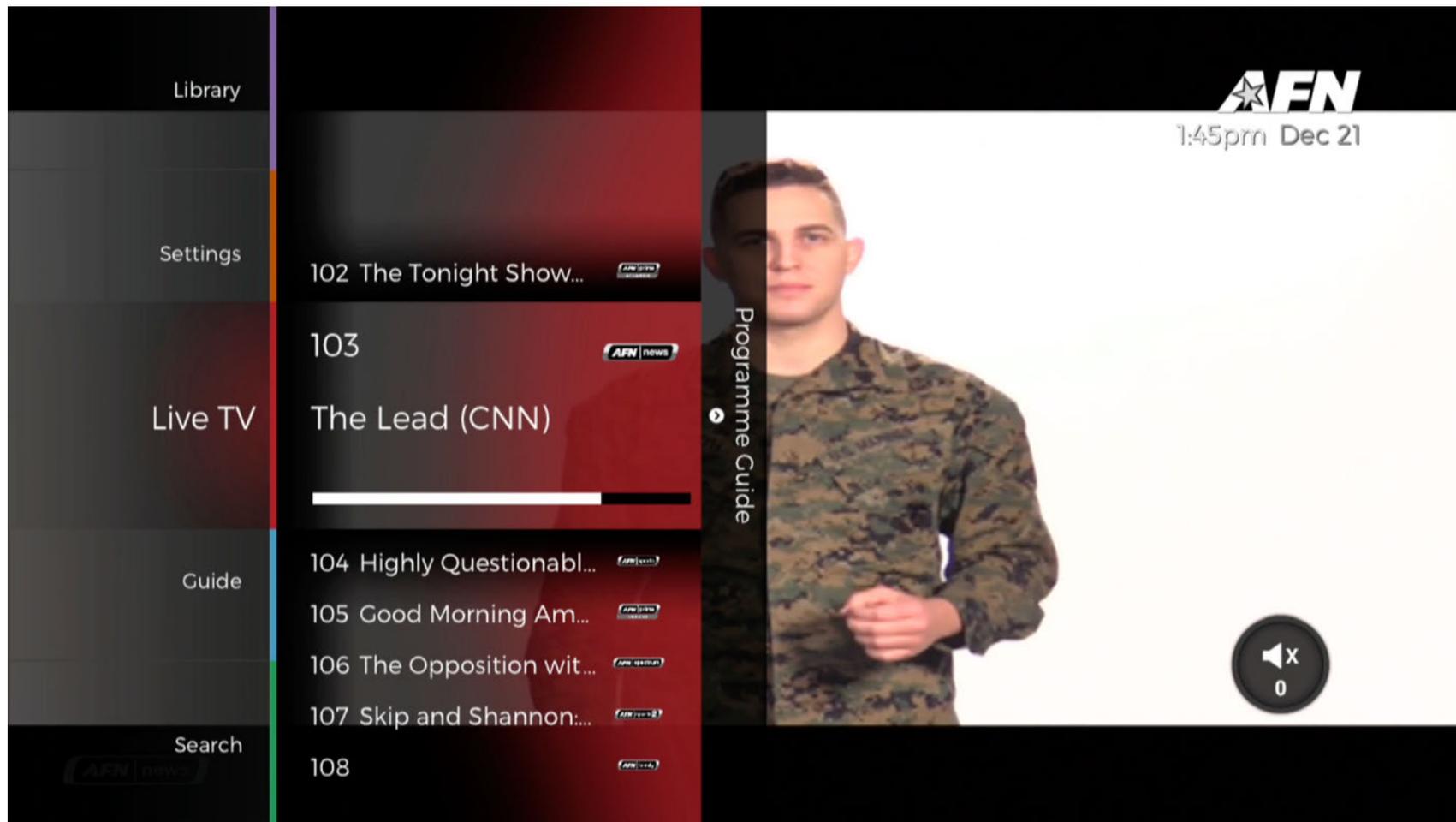
Live TV

Select the [Menu] button on the remote to access the menu and use the [▲/▼] to navigate to **'Live TV'** and press the [OK] button to select.

The **'Live TV'** section of the menu functions as both a path to the live satellite feed and as a program guide that is limited to live programming.



Press the [OK] button to show a listing of live programs.



Navigate to a channel and press [OK] to show a channel specific program guide.

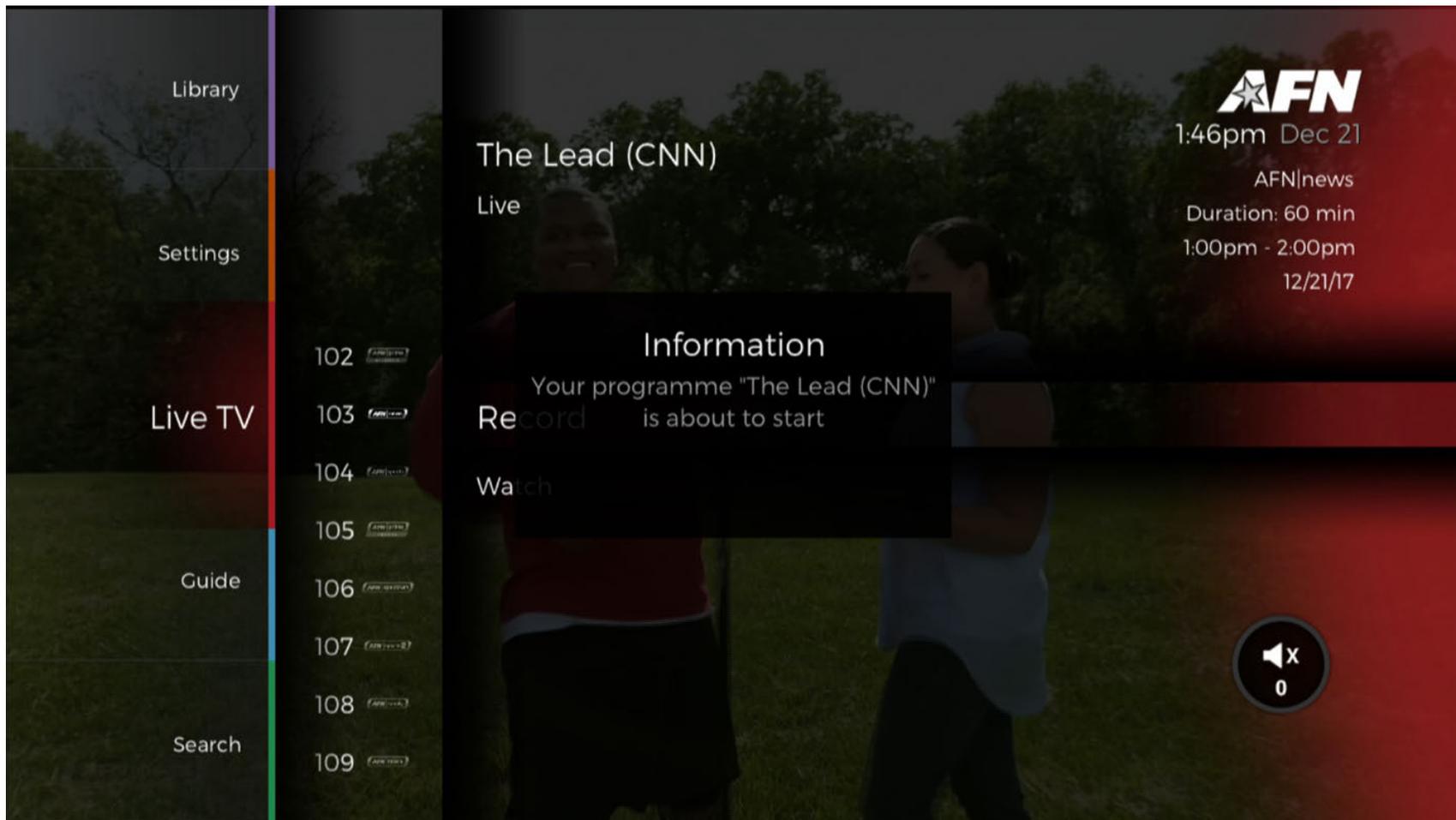


Select any of the listed programs and press [OK] to show a synopsis along with the option to **'Watch'** or **'Record'** the program.

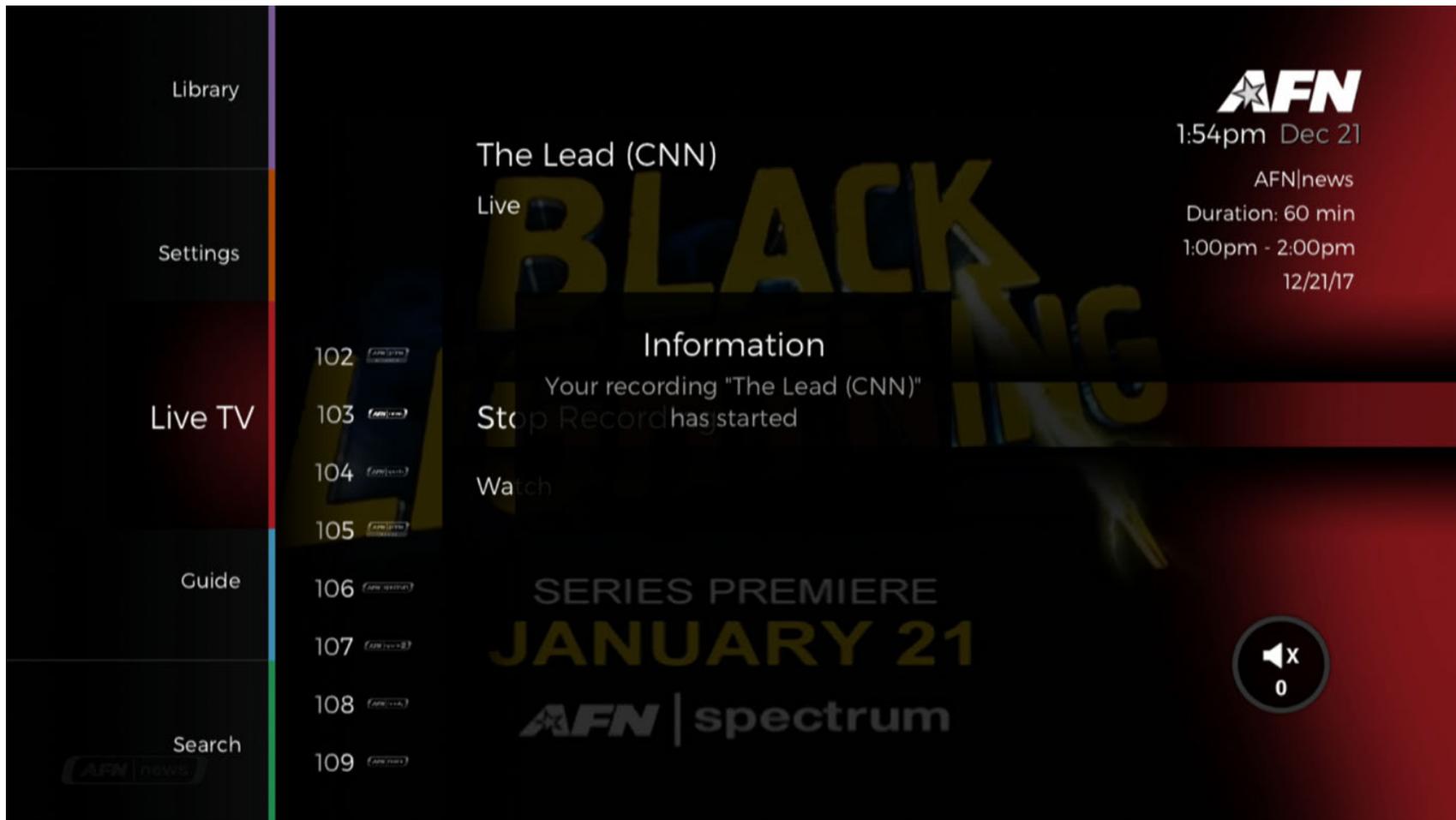


If a program is set to record, the **'Record'** option will be replaced by a **'Stop Recording'**

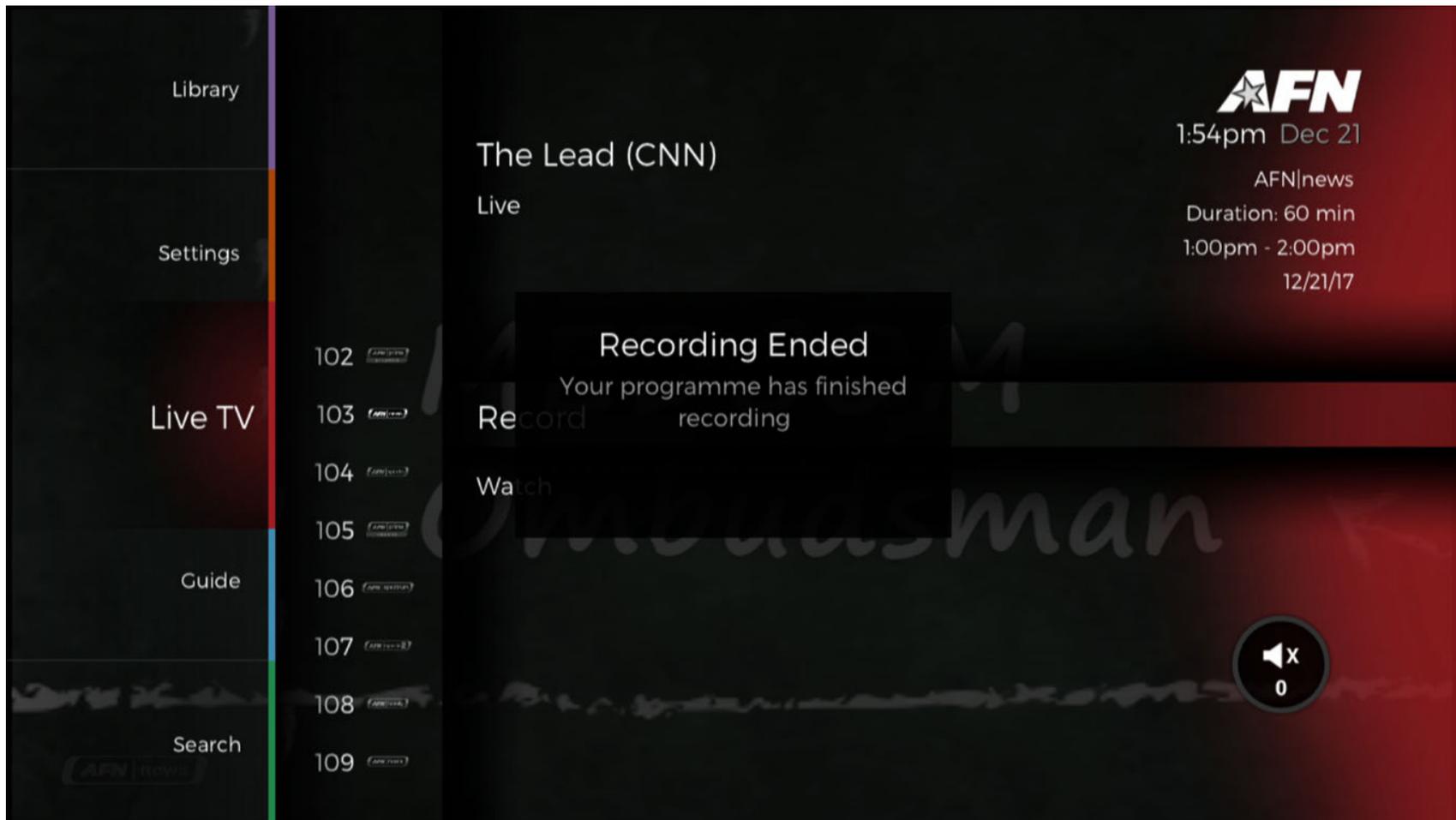
Before a program starts recording, information will appear to notify the viewer.



An Information screen will pop up when the recording starts.



Likewise, another overlay will appear when a program has ended recording.



Search

Select the [Menu] button on the remote to access the menu and use the [▲/▼] to navigate to '**Search**' and press the [OK] button to select.



The search function allows users to search the 'EPG', the 'Library', or 'Both'.



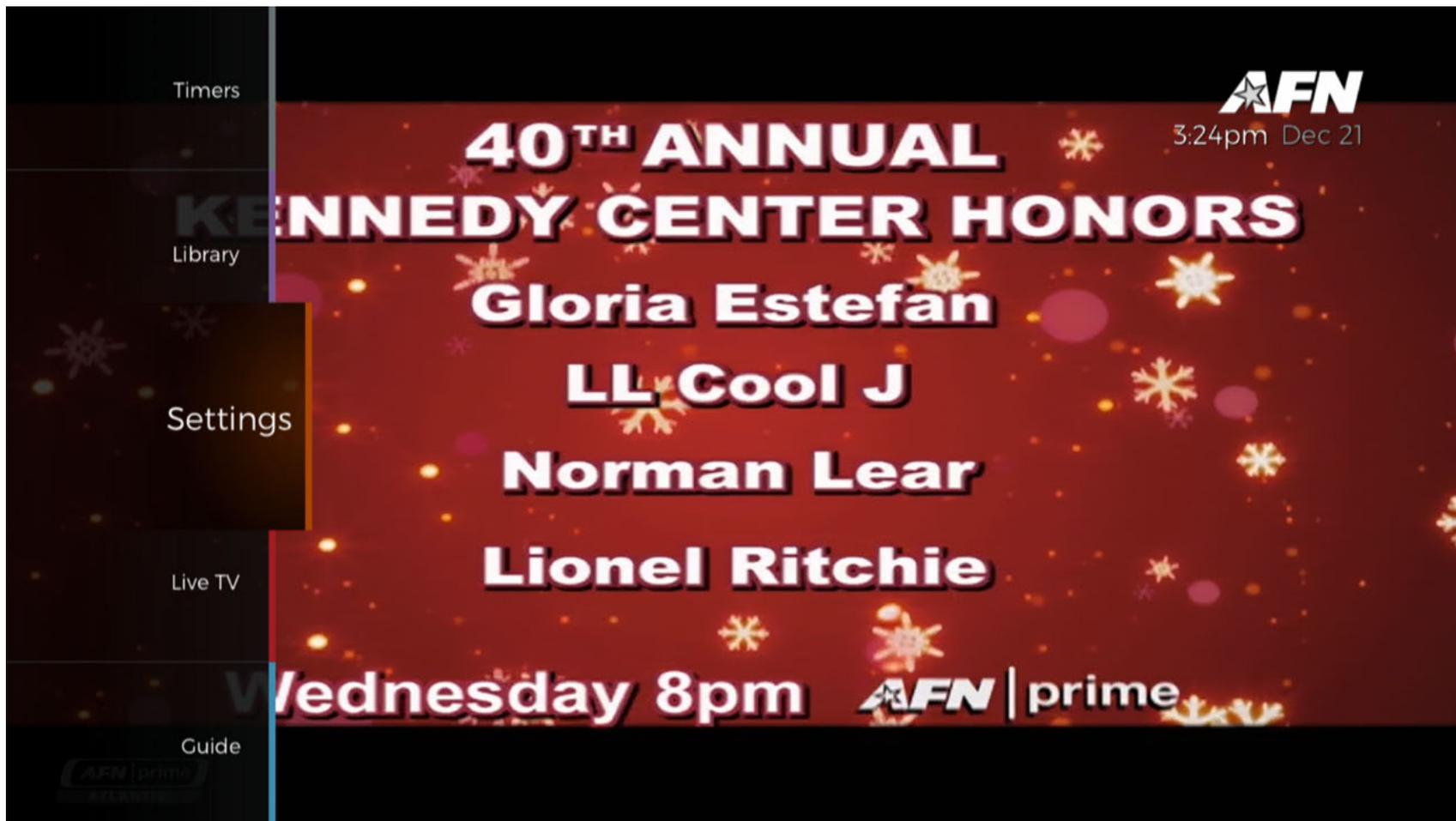
Select your area of search and press the [OK] button. This will reveal a search menu with a **keyboard**. Use the **keyboard** to input your search words and press the **'Enter'** key on the bottom right of the displayed **keyboard**.



Settings

Select the [Menu] button on the remote to access the menu and use the [▲/▼] to navigate to **'Settings'** and press the [OK] button to select.

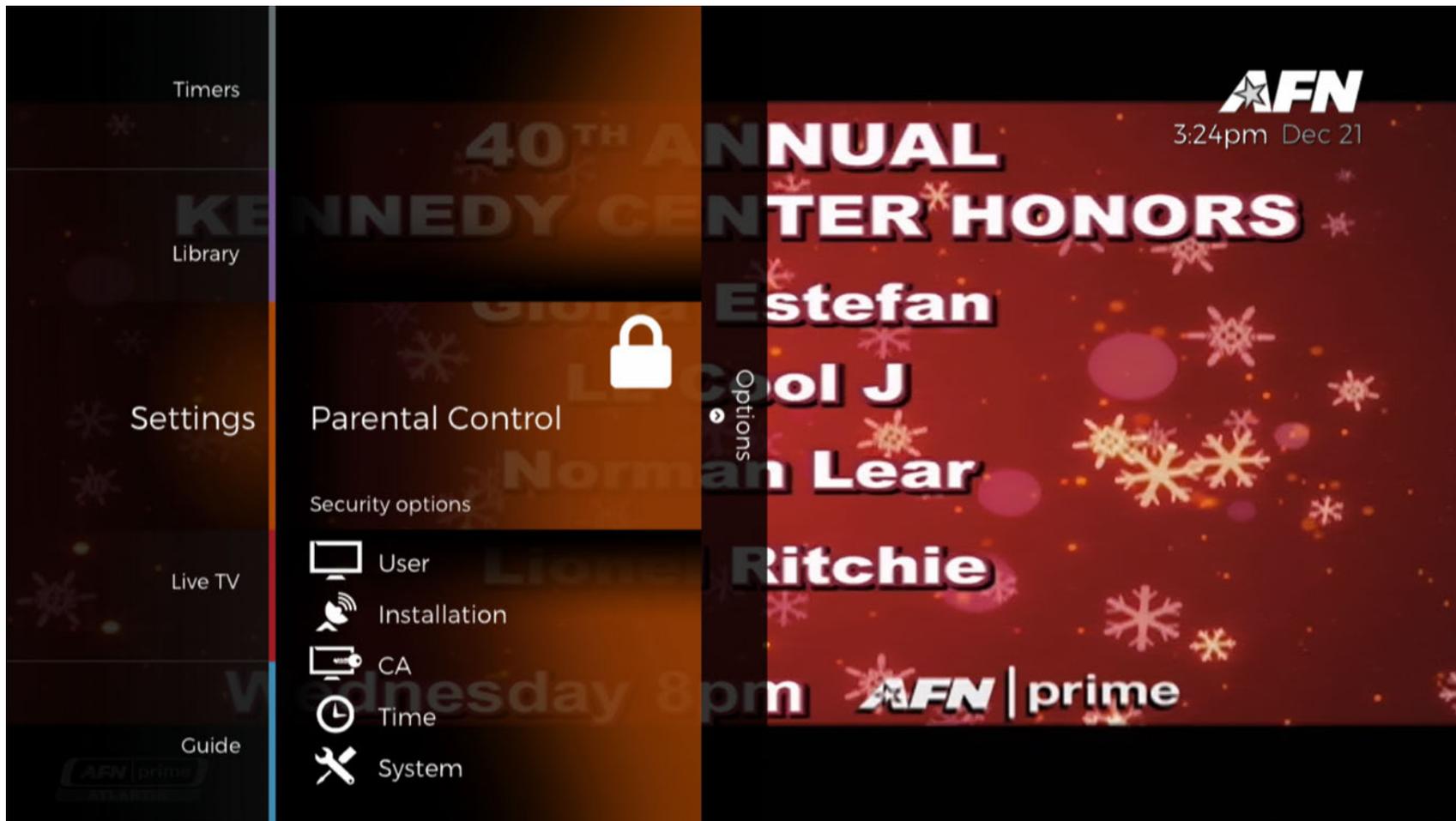
The following subsections outline the various submenus under the **'Settings'** menu.



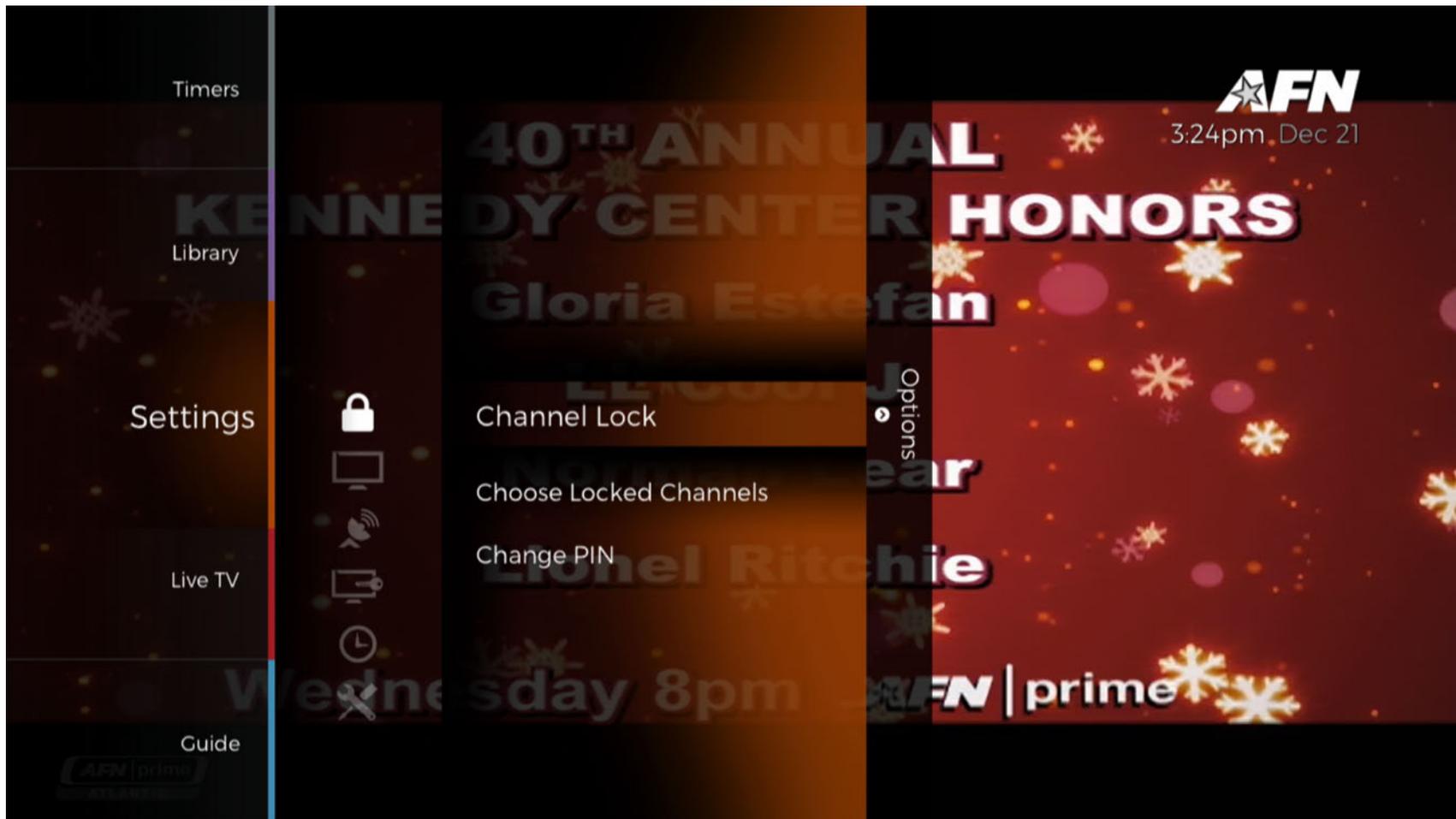
Parental Control

The Parental Control settings can be found under [Menu] > **'Settings'** > **'Parental Control'**.

The **'Parental Control'** setting allows a PIN to be set on specified channels in order to view them.

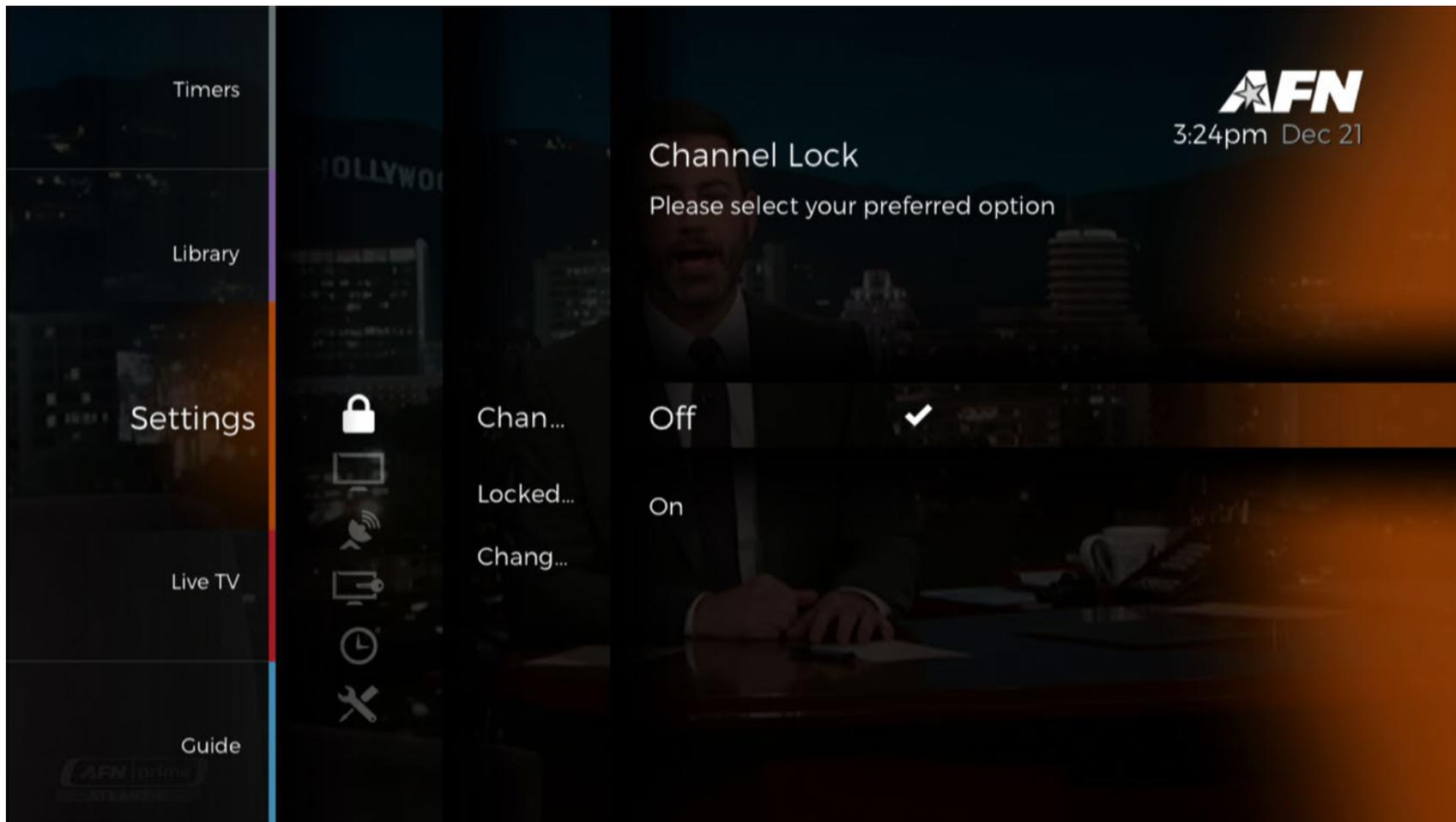


There are three submenus under 'Parental Control': 'Channel Lock', 'Choose Locked Channels', and 'Change PIN'.



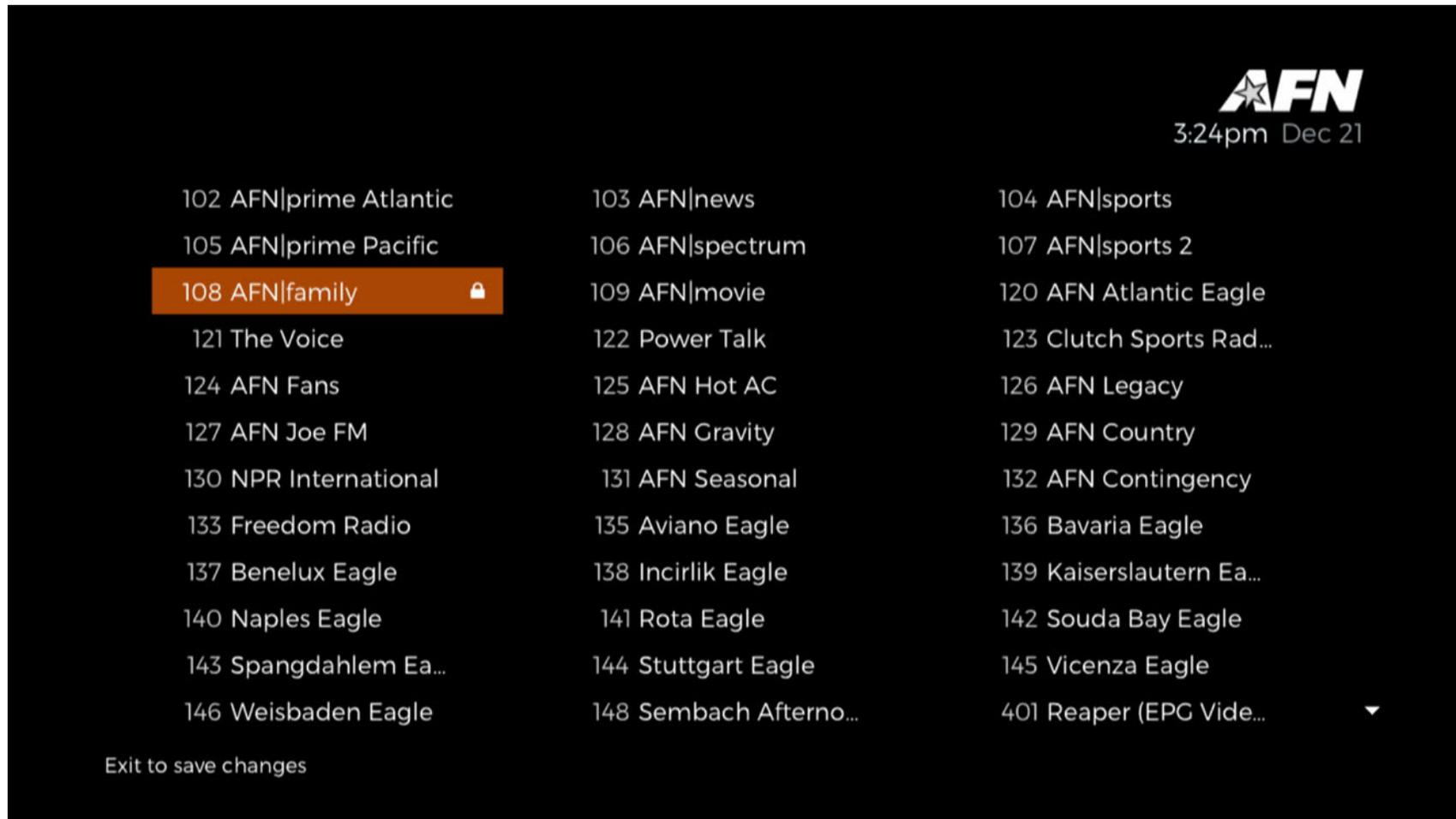
Channel Lock

The **'Channel Lock'** submenu is used to turn the Parental Controls on or off. If you want to utilize parental controls then ensure Channel Lock is first set to 'On'.



Choose Locked Channels

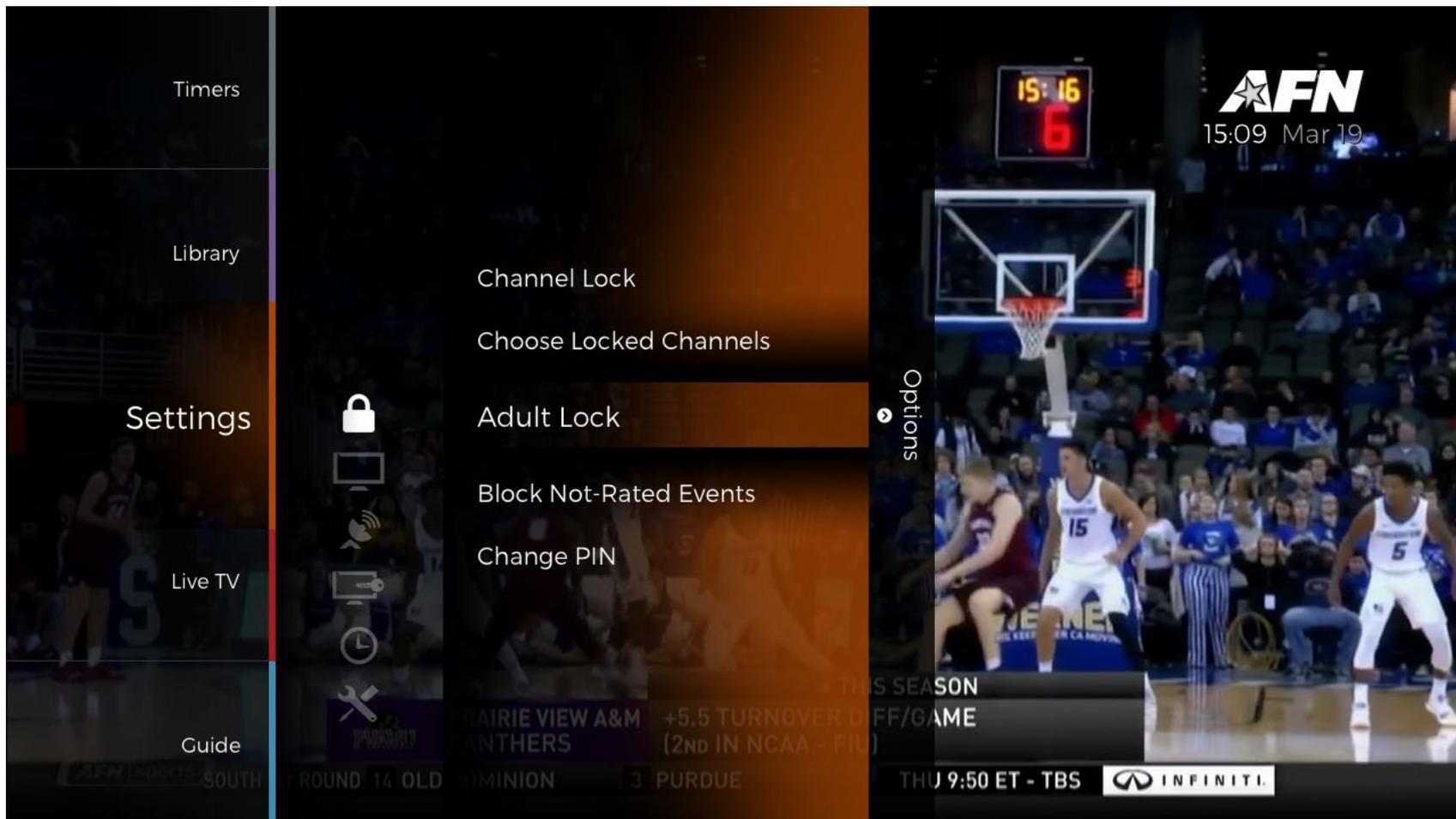
The **'Choose Locked Channels'** submenu shows a listing of all available channels. Select any channels you wish to lock and press the [OK] button. They must be selected one at a time.



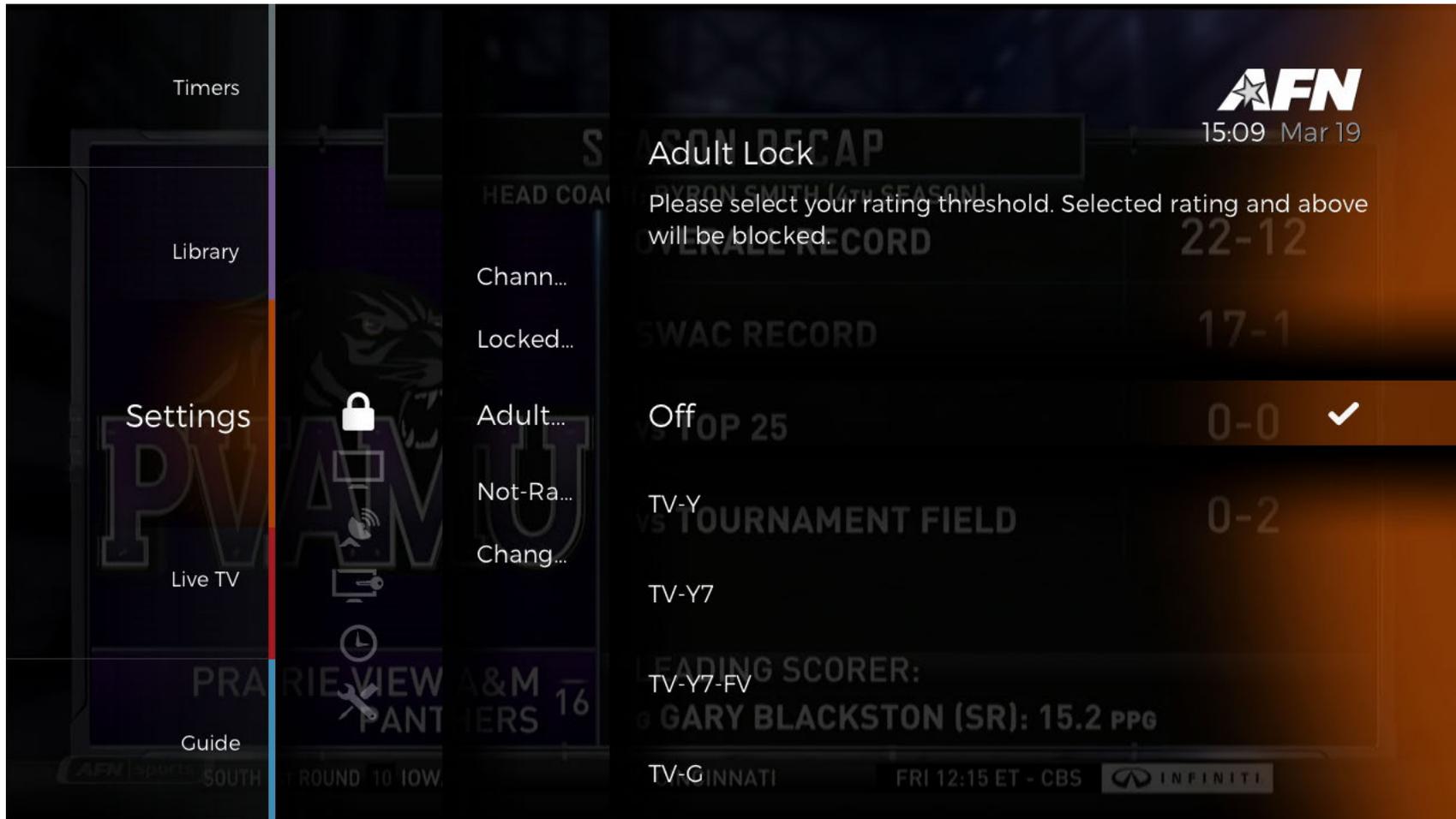
Adult Lock

'**Adult Lock**' allows the user to select a rating to be blocked. To block by VCHIP ratings, enter the main menu, select Settings -->Parental Control-->Adult Lock. A list of ratings will appear to choose from, including Off. See the three additional Adult Lock screenshots with "off", "TV-Y7" and "TV-Y7 checked" in the file name for examples. By selecting a rating, it and all higher ratings will be blocked.

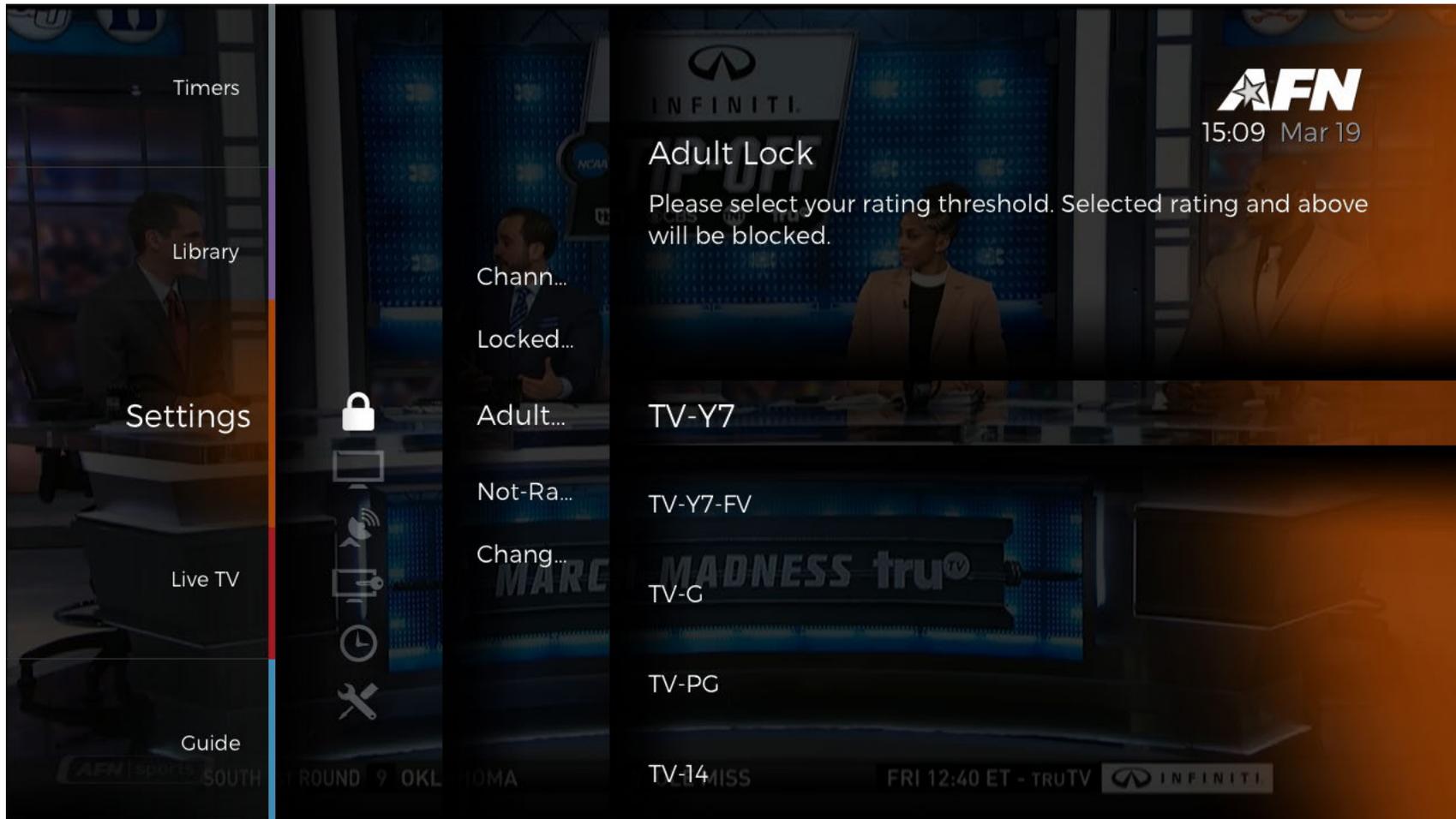
Adult Lock



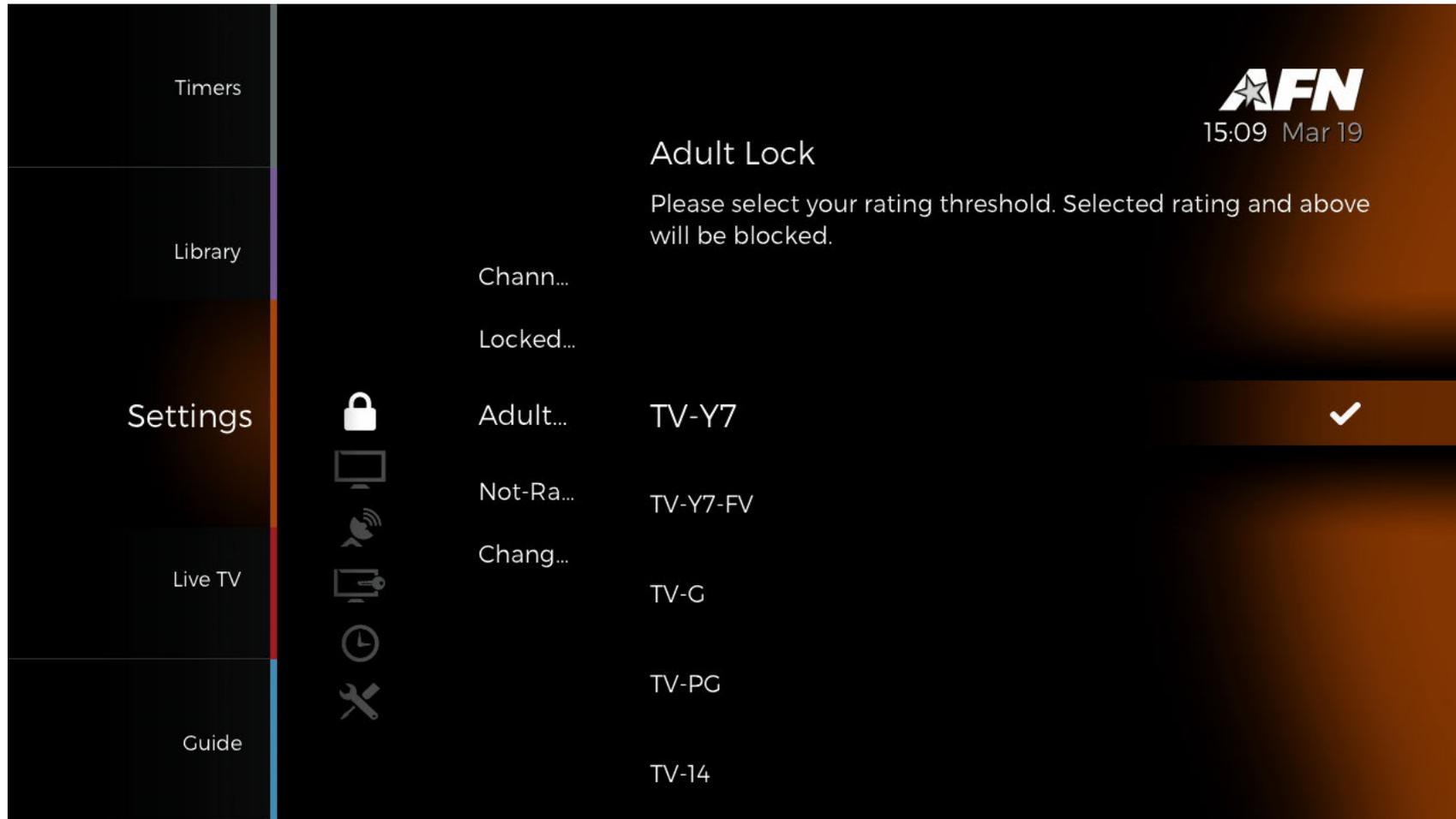
Adult Lock Off



Adult Lock TV-Y7

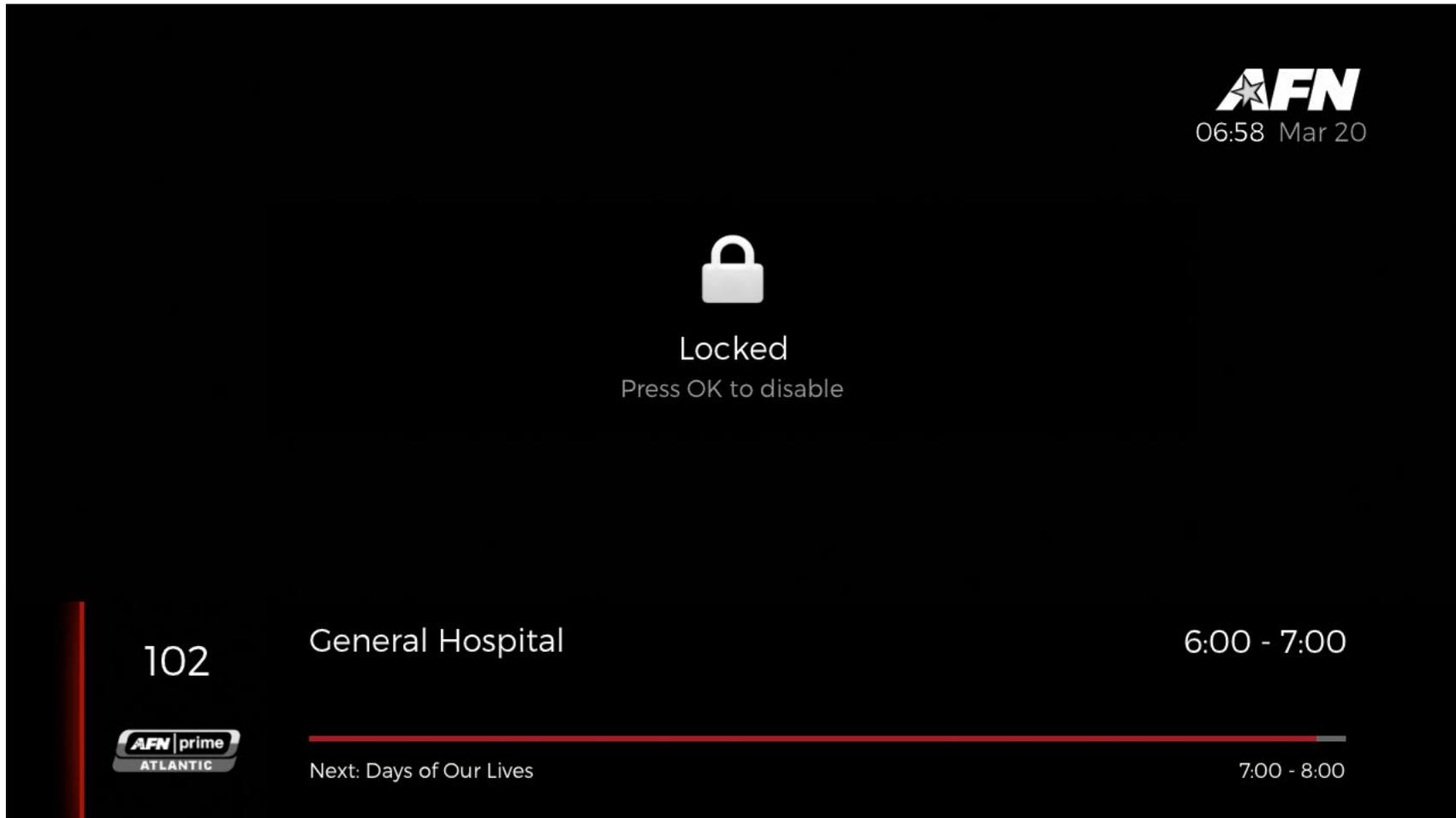


Adult Lock TV-Y7 Checked

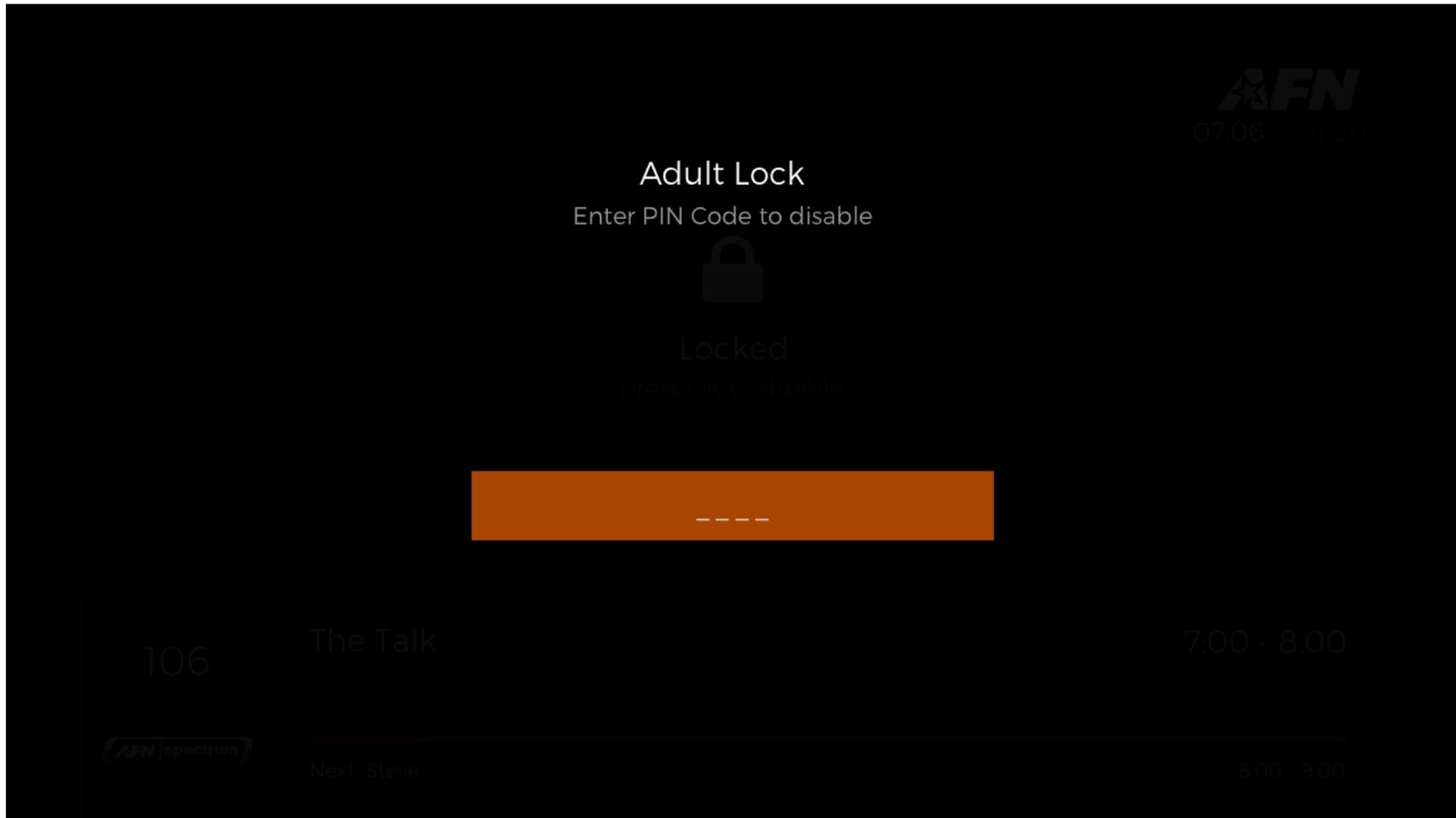


If a viewer selects a locked program, the "Locked Press OK to disable" screen will appear. If they press OK, the Adult Lock Enter PIN will appear. After entering the PIN code, the program will appear.

Locked Press - OK to Disable



Adult Lock Enter PIN

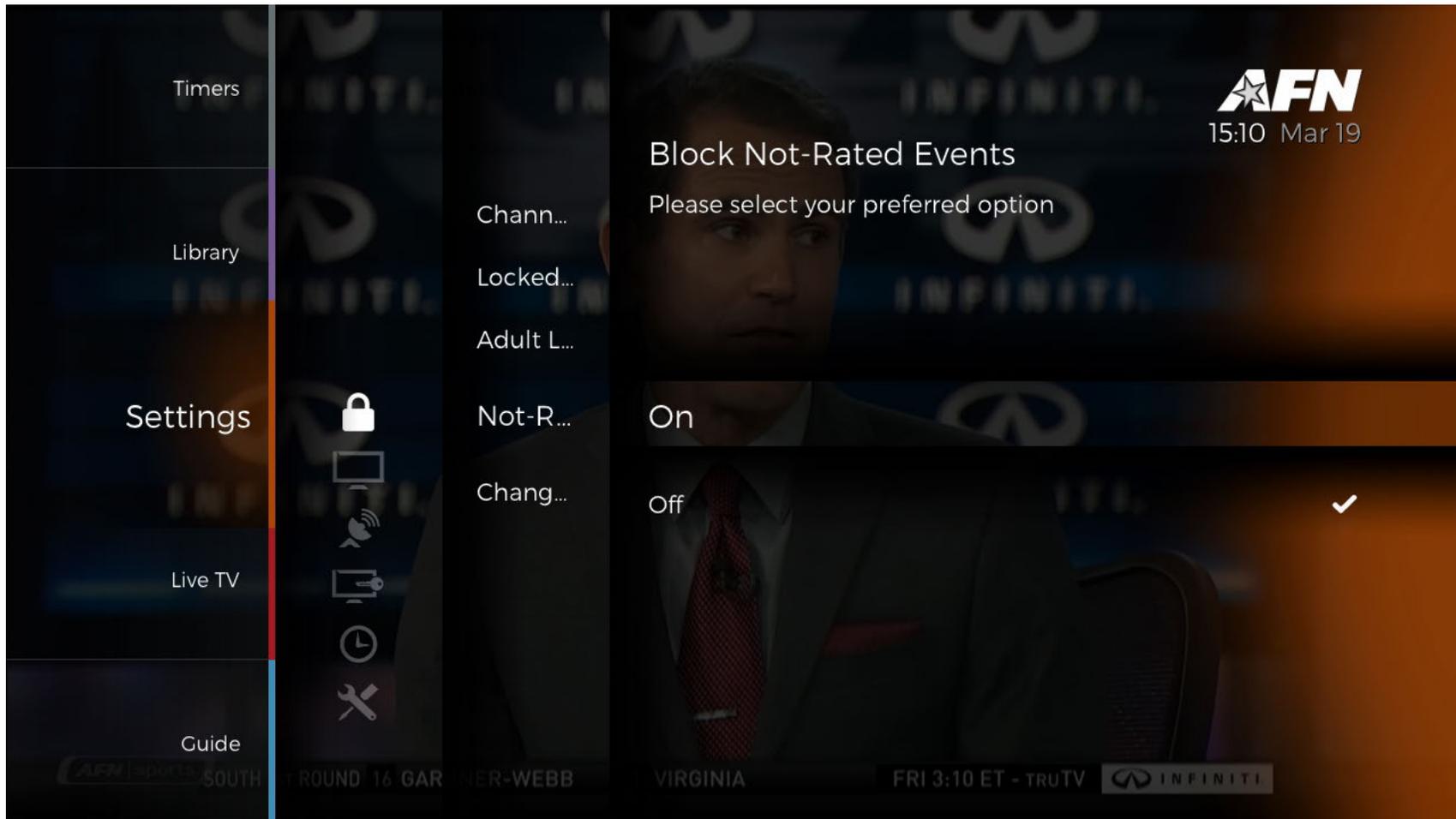


Block Not-Rated Events

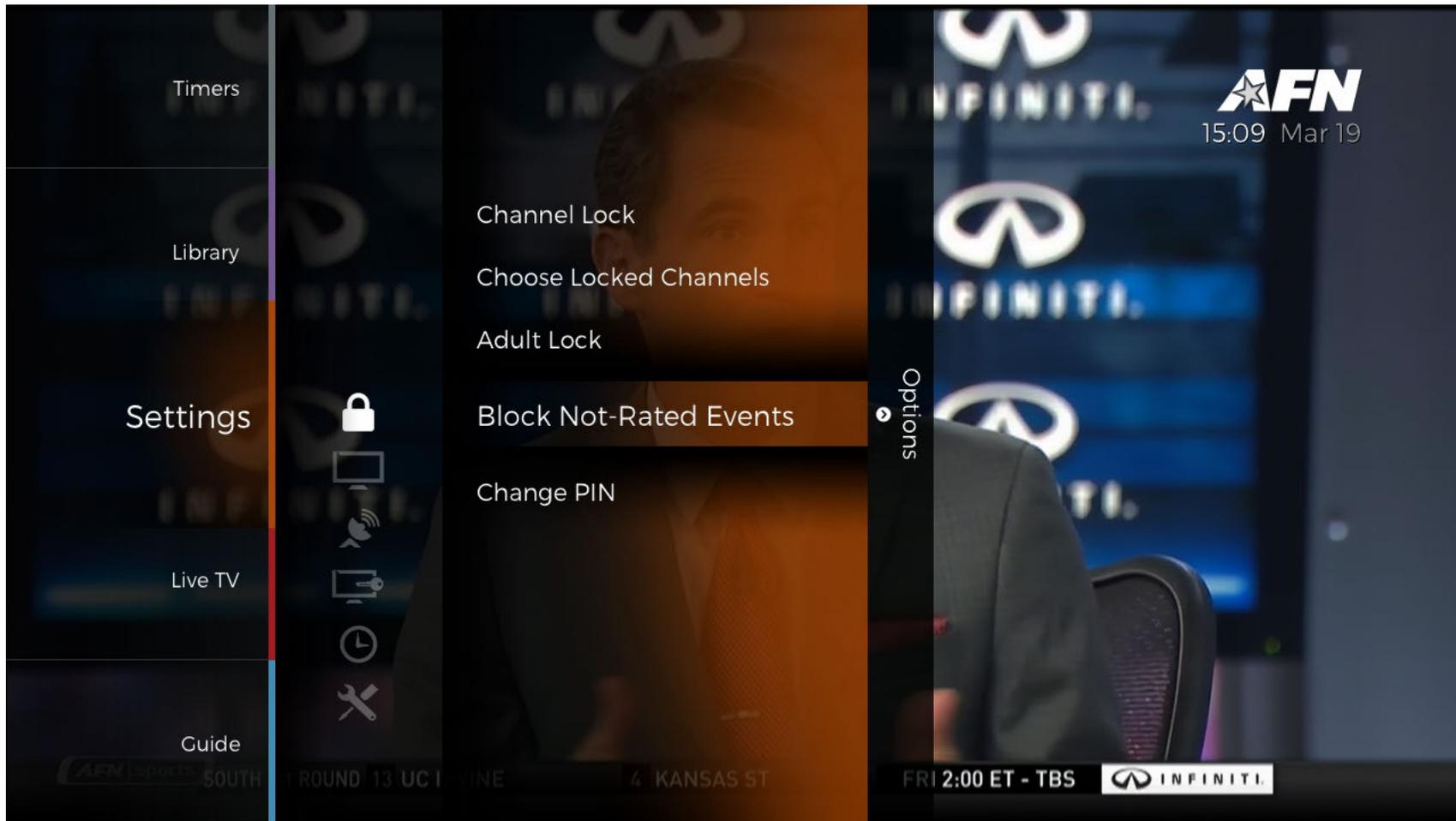
The '**Block Not-Rated Events**' options allow the user to block events that are not rated. Many programs, which may contain material deemed questionable by some parents, may not contain embedded VCHIP ratings. This option allows parents to block all programs with no VCHIP ratings if they wish to do so. To activate this option, enter the main menu -->Settings --> Parental Control and select "Select Block Not-Rated Events." Then select On or Off to set this option.

Like Adult Lock above, if a viewer selects a locked program, the "Locked Press OK to disable" screen will appear. If they press OK, the Adult Lock Enter PIN will appear. After entering the PIN code the program will appear.

Block Not-Rated Events On/Off

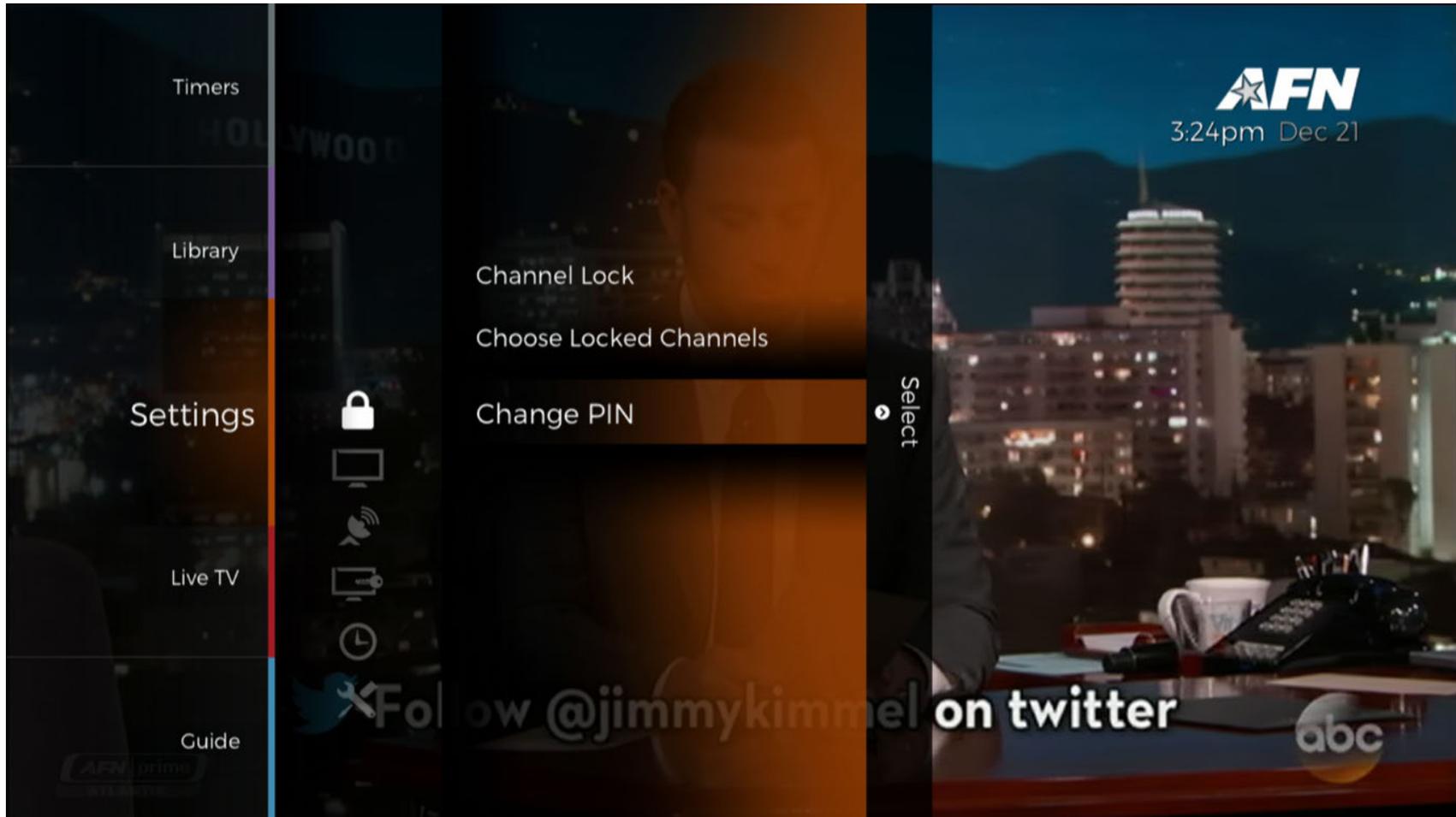


Select Block Not-Rated Events

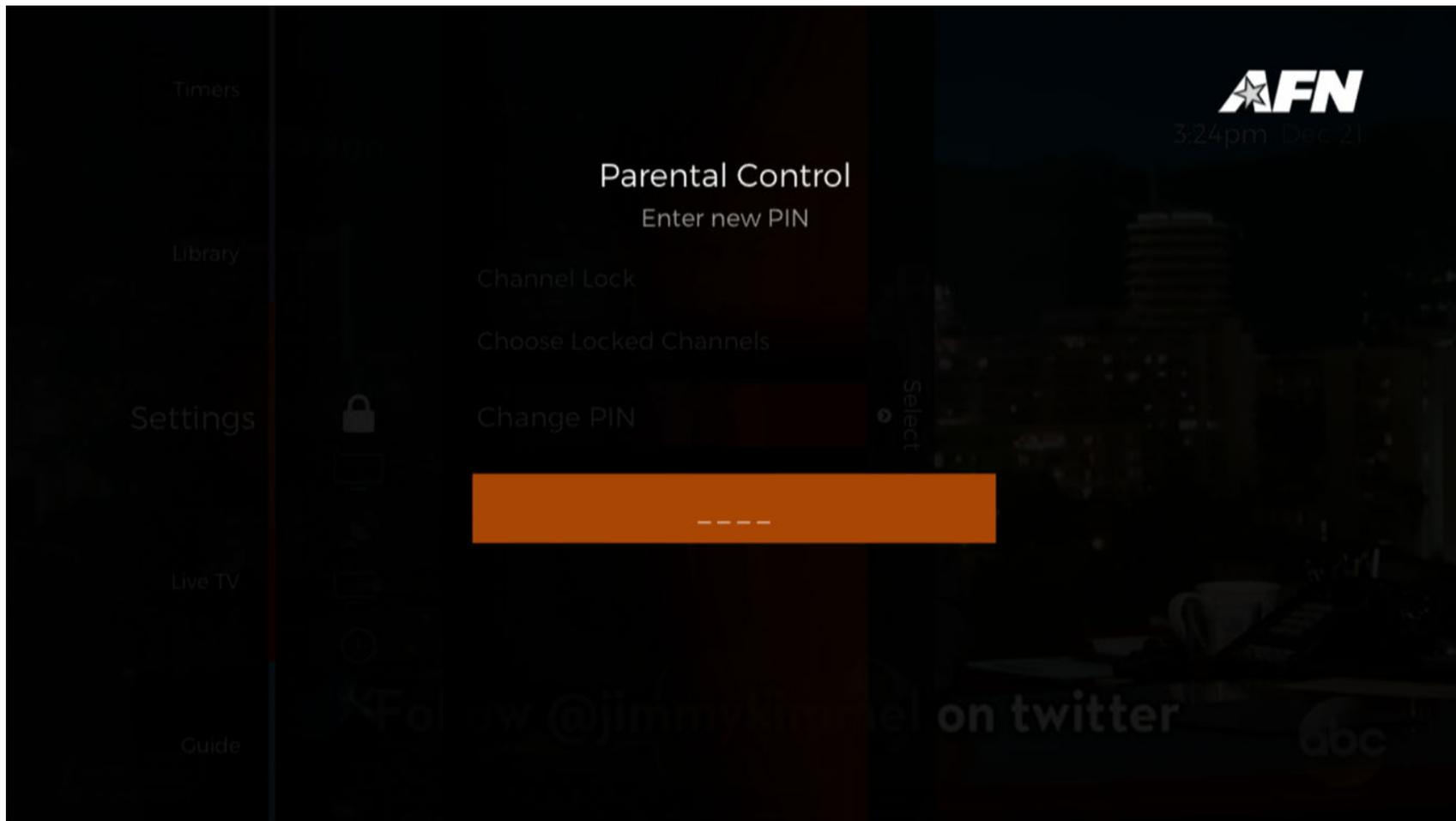


Change PIN

The **'Change PIN'** submenu can be used to set a new PIN for the Parental Controls.



Prompts will appear to enter the new PIN and confirm it. Warning - if you forget your PIN, you will have to do a factory reset to clear.



User

The User settings can be found under [Menu] > **'Settings'** > **'User'**.

The **'User'** menu can be used to adjust the audio and video settings for the AFN Decoder.



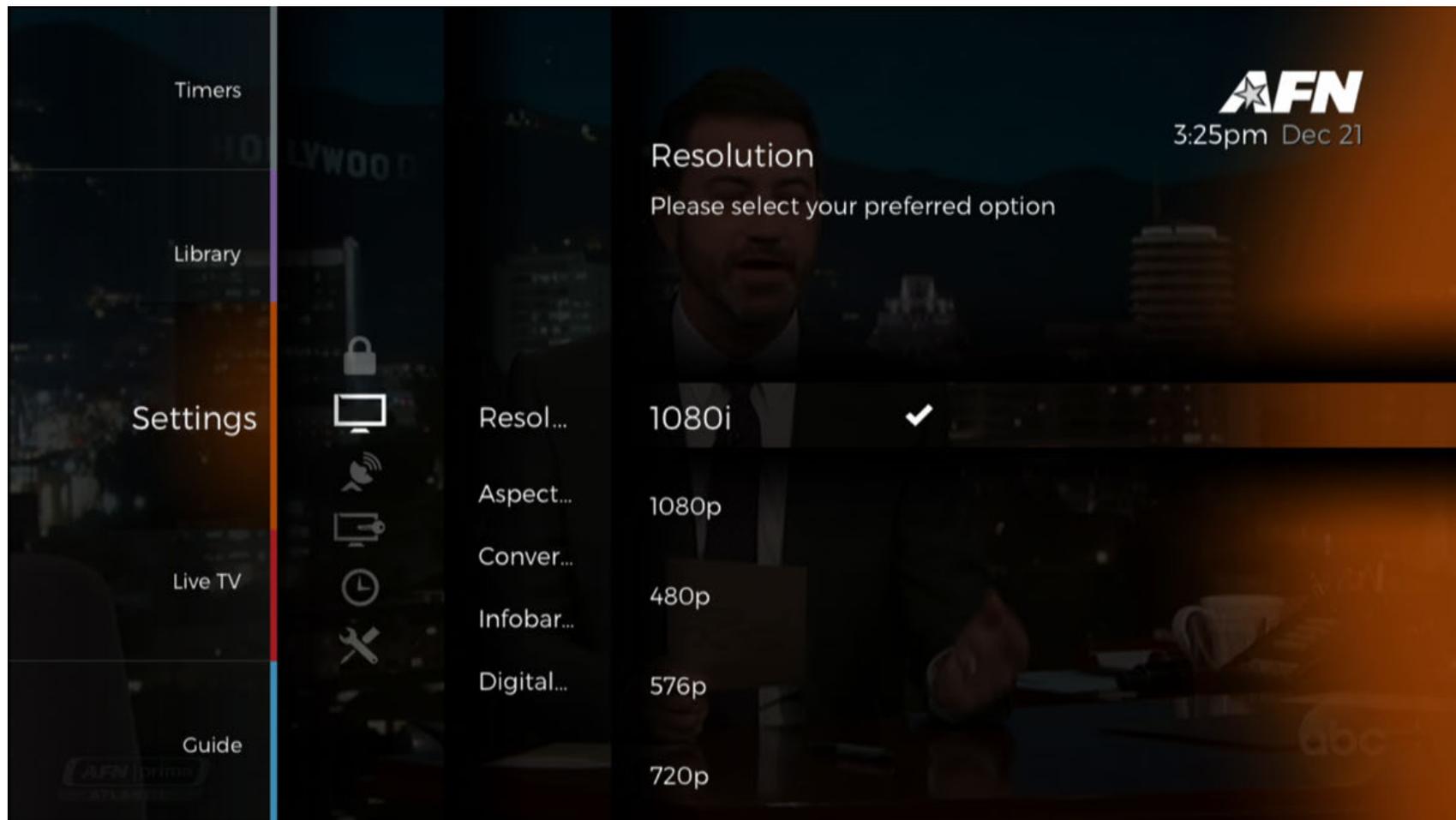
The following submenus are available: **'Resolution'**, **'Aspect Ratio'**, **'Aspect Conversion'**, **'Infobar Timeout'**, and **'Digital Audio'**.



Resolution

The Resolution settings can be found under [Menu] > **'Settings'** > **'User'** > **'Resolutions'**.

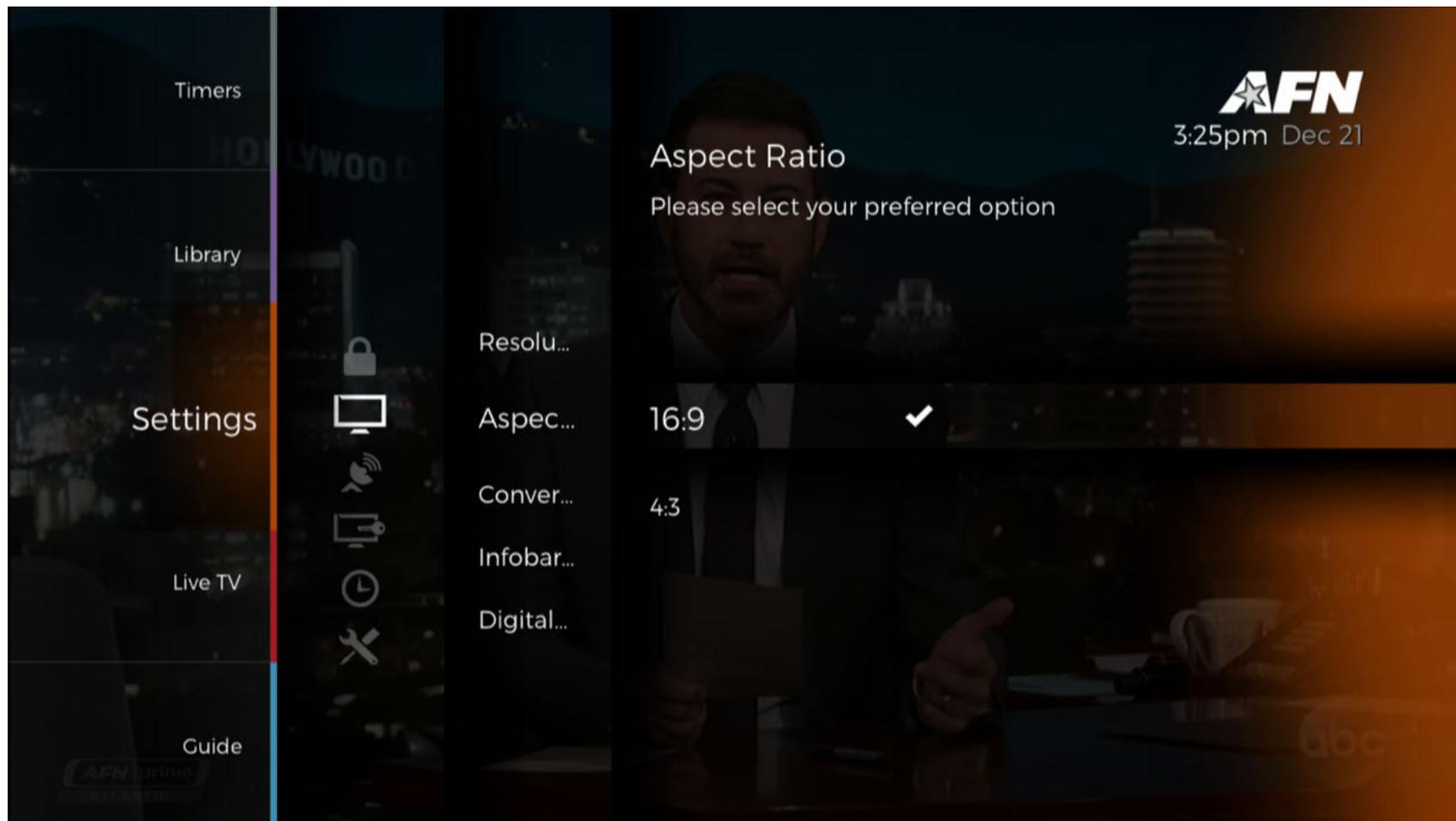
The **'Resolution'** submenu allows the user to specify the preferred resolution they would like to receive. This should match the best setting your Television allows, such as 1080p.



Aspect Ratio

The Aspect Ratio settings can be found under [Menu] > **'Settings'** > **'User'** > **'Aspect Ratio'**.

The **'Aspect Ratio'** submenu allows the user to specify either 4:3 (Legacy SD) or 16:9 (Standard HD and SD - Default) aspect ratio.



Aspect Conversion

The Aspect Conversion settings can be found under [Menu] > **'Settings'** > **'User'** > **'Aspect Conversion'**.

The **'Aspect Conversion'** submenu allows the user to specify how they want to handle the conversion of programs to the set **'Aspect Ratio'**.*

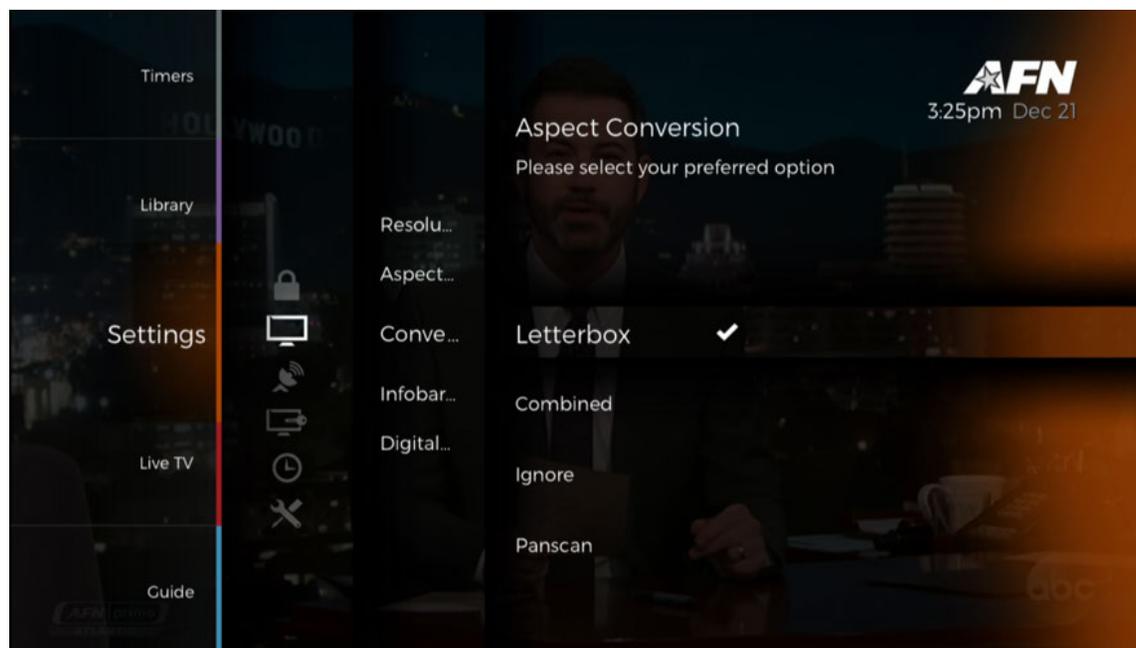
*The following conversion options only work when the incoming signal contains the proper metadata.

'Letterbox' will add black bars to adapt content to the preferred aspect ratio.

'Combined' will read the metadata contained in the file and apply the conversion accordingly.

'Ignore' will simply pass-through the aspect ratio without conversion.

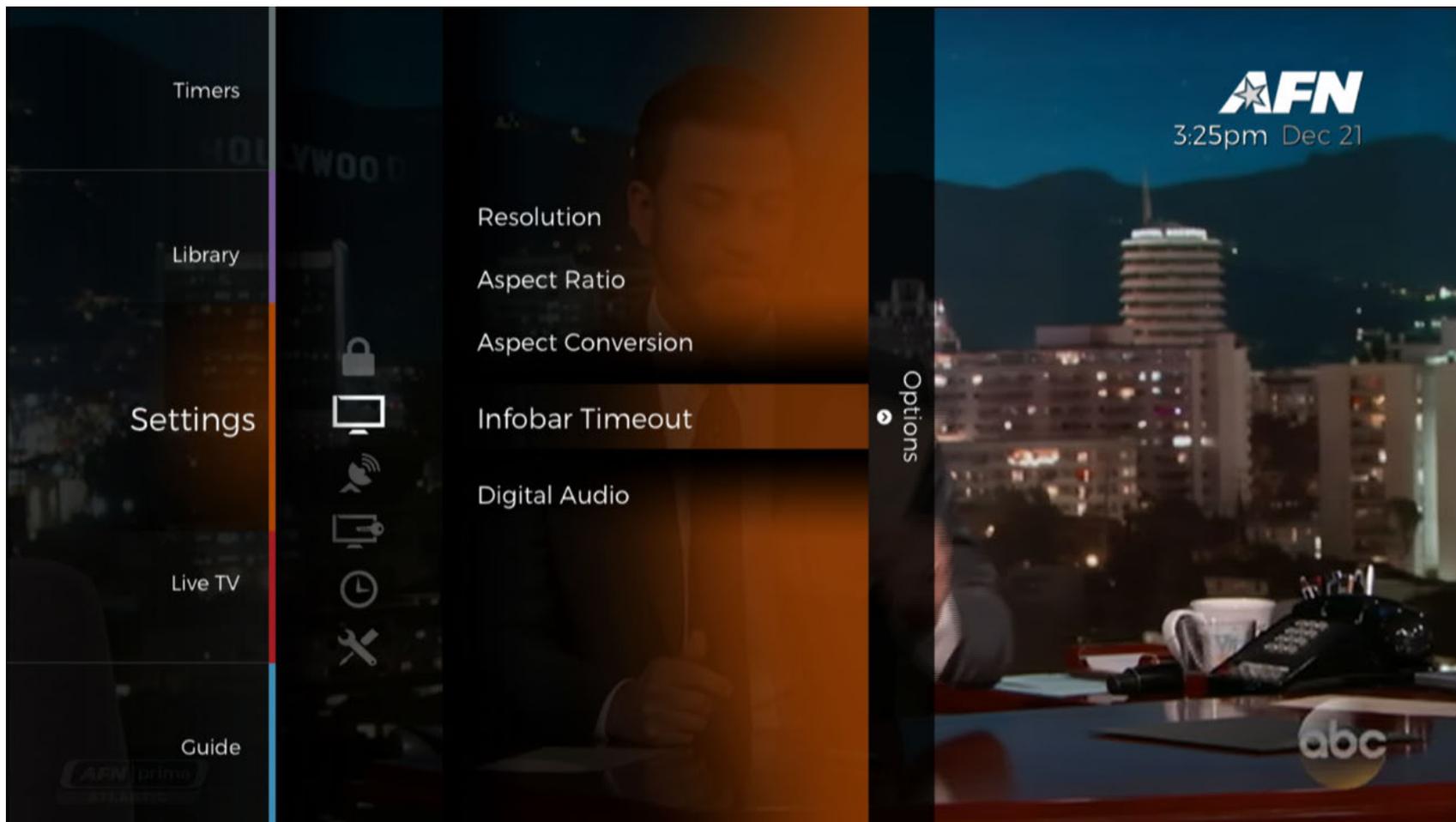
'Panscan' will scan the image to intelligently select an area of interest to preserve when doing aspect conversions.



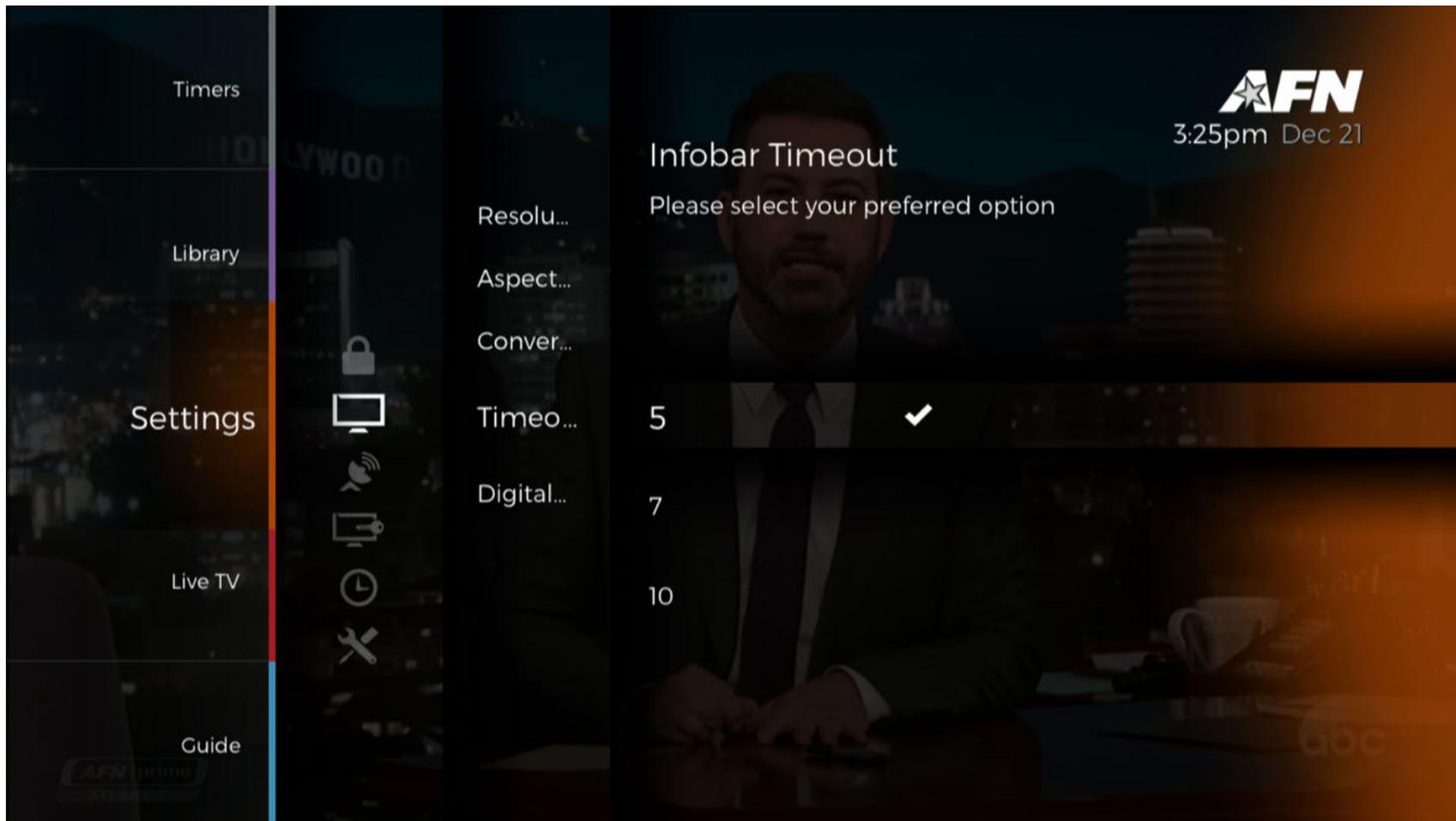
Infobar Timeout

The Infobar Timeout settings can be found under [Menu] > **'Settings'** > **'User'** > **'Infobar Timeout'**.

The **'Infobar Timeout'** menu allows the user to set how many seconds it takes before the Infobar fades away when watching a program.



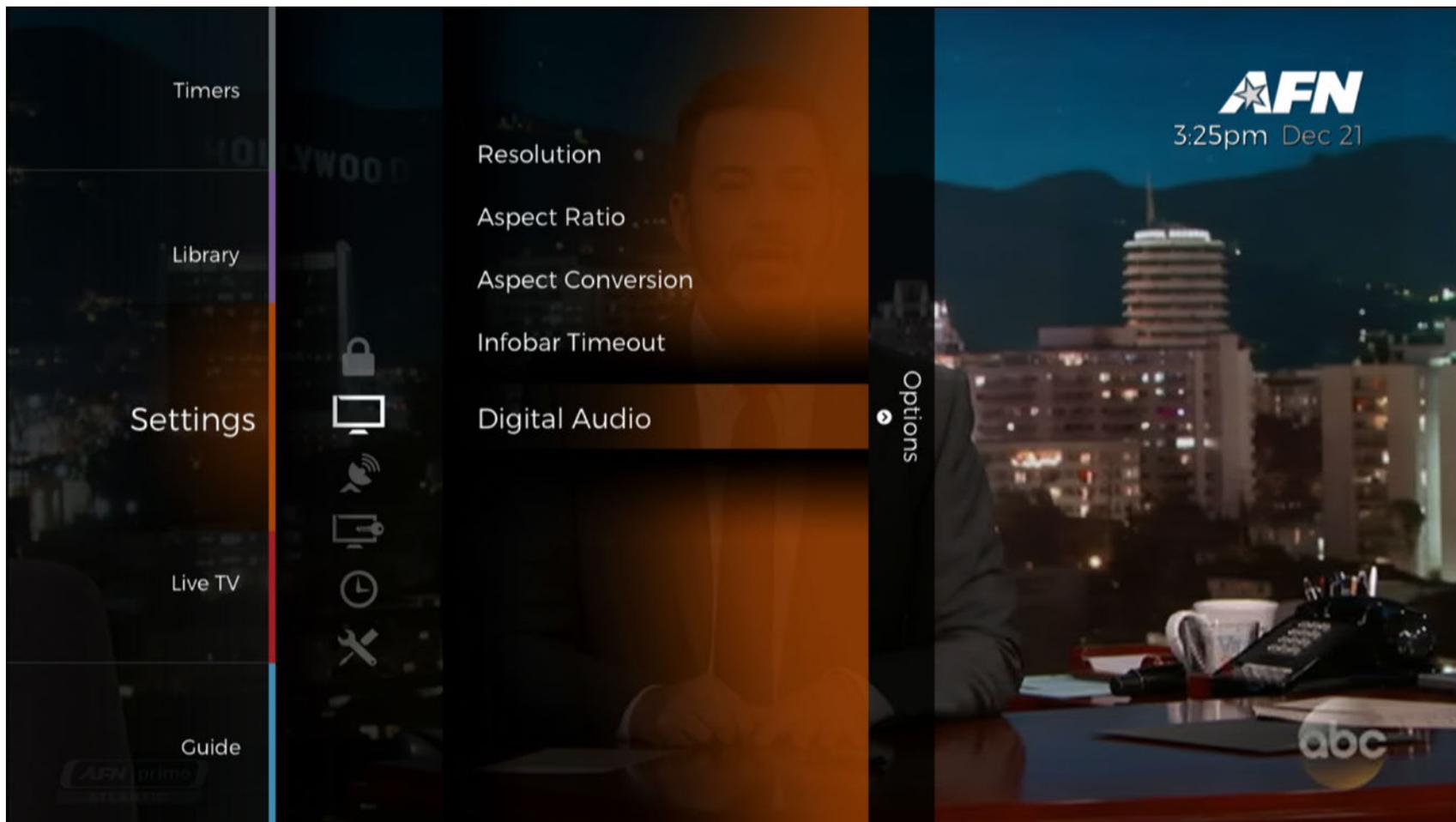
The options are '5', '7', and '10' seconds.



Digital Audio

The Digital Audio settings can be found under [Menu] > **'Settings'** > **'User'** > **'Digital Audio'**.

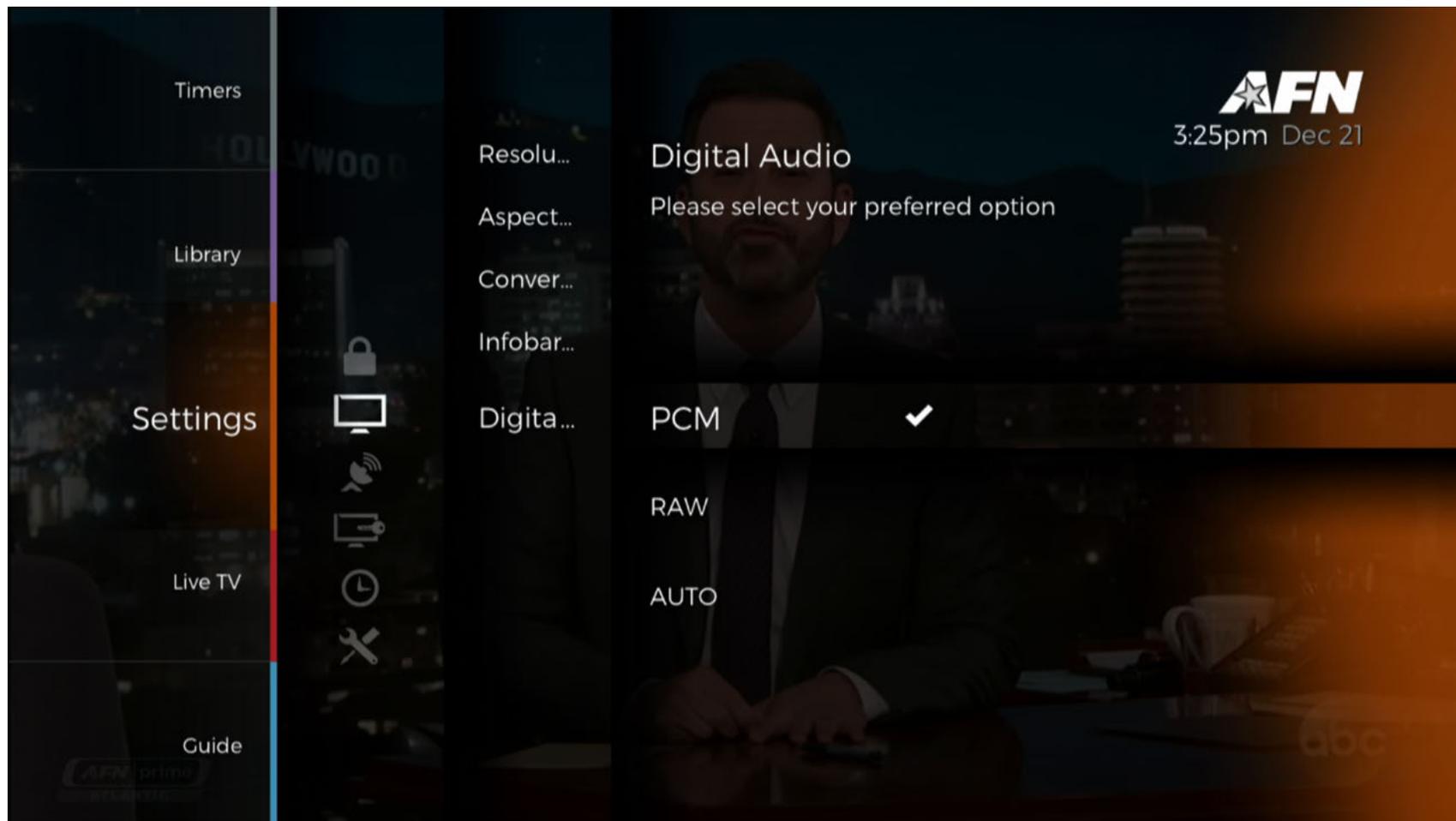
The **'Digital Audio'** submenu allows the user to specify the audio format(s) to use.



'PCM' will convert all audio to PCM. This will increase compatibility but may lower quality of audio.

'RAW' will pass-through the audio embedded in the program. Not all audio formats may be compatible with your TV or audio system.

'Auto' will attempt to dynamically select between 'PCM' and 'RAW' based on compatibility.



Installation

The Installation settings can be found under [Menu] > **'Settings'** > **'Installation'**.

The **'Installation'** submenu allows the user to set-up or align their AFN Decoder to the satellite.



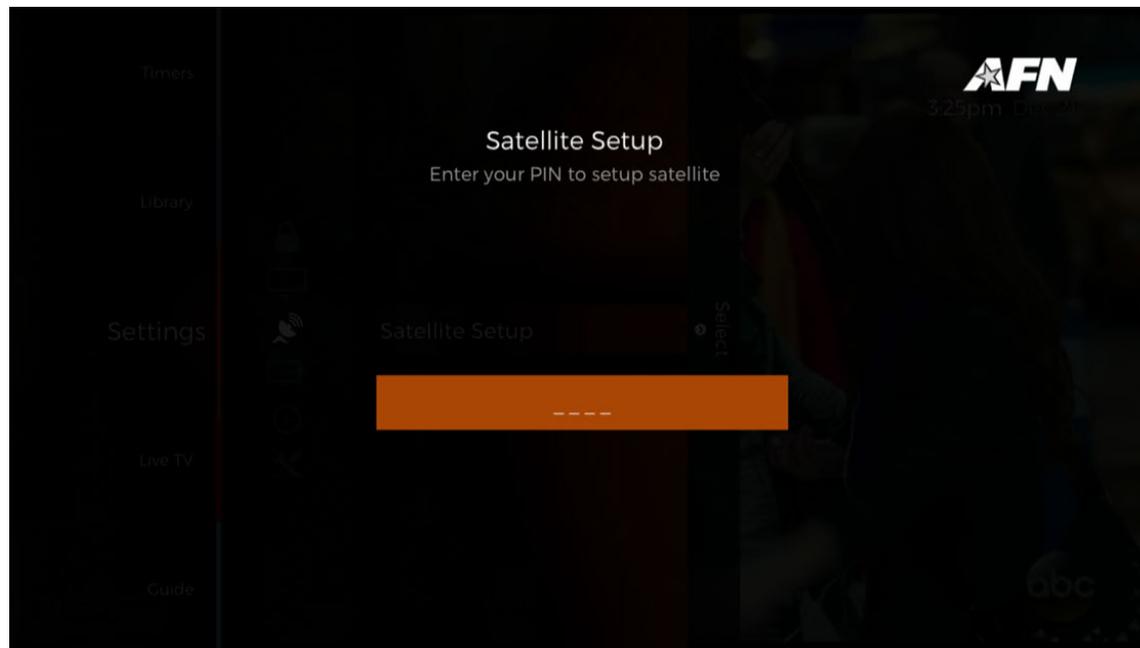
Satellite Setup

The Satellite Setup settings can be found under [Menu] > **'Settings'** > **'Installation'** > **'Satellite Setup'**.

The **'Satellite Setup'** submenu can be used to connect the AFN Decoder to one of the supported Satellites.

Warning, reconfiguring the Satellite could delete your current channel and favorites list.

First, you will be prompted to enter your PIN number. The default pin from the factory is 0-0-0-0.



Now, you must select the **'Satellite'** to connect to and choose the **'Transponder'** and **'DiSEqC11'** settings. Select **'Continue'** to move forward.

Next, you need to select the correct satellite. Decoder settings guides for each satellite AFN uses to deliver content worldwide are available for download at myafn.net. The list below is current as of June 2018 and is subject to change without notice.

The AFN Satellite Network eight-channel service on the following satellites requires the use a three-meter or larger satellite dish:

1. AFN ATL G16, North and Central America, Caribbean
2. AFN ATL SES5, Eastern South America, Africa, Europe, Persian Gulf
3. AFN PAC IS18, Southeast Asia

The following Direct to Home eight-channel service on the following satellites requires the use of a 60 centimeter to 1.8 meter satellite dish:

1. AFN PAC KSAT5A, Japan, Korea, Philippines
2. AFN ATL E9B, Western Europe, Northern Africa, Southwest and Central Asia

The following Direct to Sailor three-channel service on the following satellites requires the use of 1.5 meter satellite dish:

1. DTS ATL IS35E, Atlantic Ocean Region
2. DTS PAC NSS9, Pacific Ocean Region
3. DTS IOR IS906, Indian Ocean Region (available for AFN until May 5, 2019)
4. DTS IOR NSS12, Indian Ocean Region (available for AFN starting April 22, 2019)

NOTE - If a different satellite list appears, such as Galaxy 16 instead of G16, please perform a factory reset to update the list of satellites. This is done from the main menu:

1. Select the Settings option, then press right arrow.
2. Then select System sub option and press the right arrow.
3. Now select "Factory Default" and press the right arrow.
4. Enter the PIN (default = 0000)
5. Select "Factory Reset"

After the reset is complete, the new satellite list will update, and the initial screen install will appear.

The Select Satellite screen:



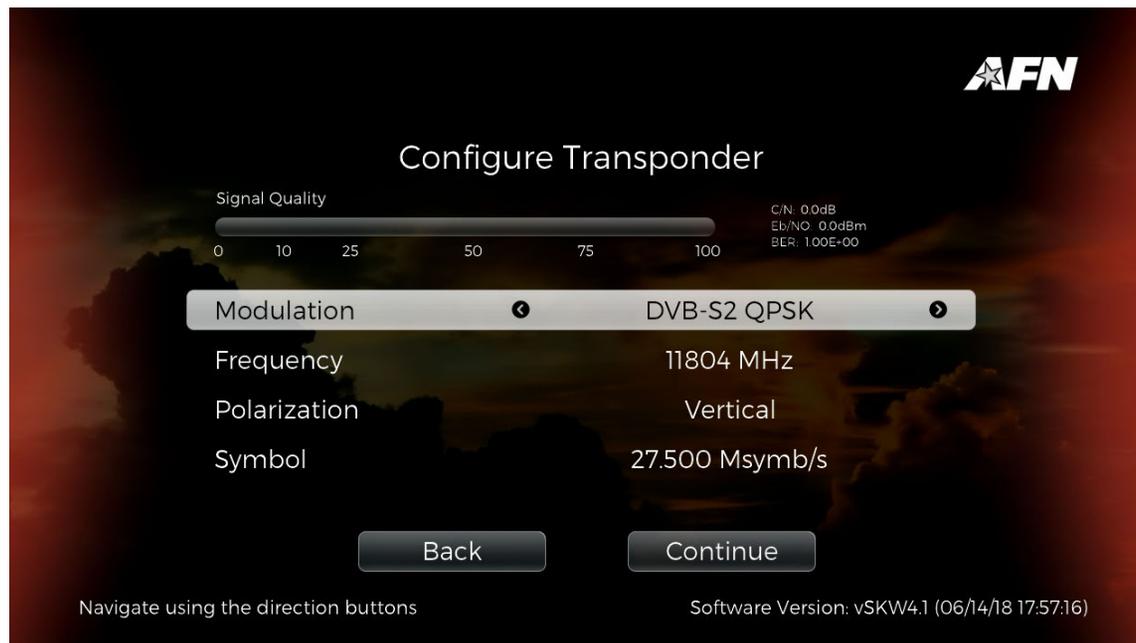
Your settings may vary depending on where you are located, and on which satellite you are connecting.

NOTE - Satellite names appear in the following order on the STB selection:

1. AFN ATL E9B
2. DTS IOR IS906
3. DTS IOR NSS12
4. AFN PAC IS18
5. AFN ATL G16
6. AFN ATL SES5
7. DTS ATL IS35E
8. DTS PAC NSS9
9. AFN PAC KSAT5A

If LNB is set to manual, refer to the decoder settings guides at <http://www.myafn.net>.

If Transponder is set to Manual, make sure the **'Modulation'**, **'Frequency'**, **'Polarization'**, and **'Symbol'** are correct and select **'Continue'**.



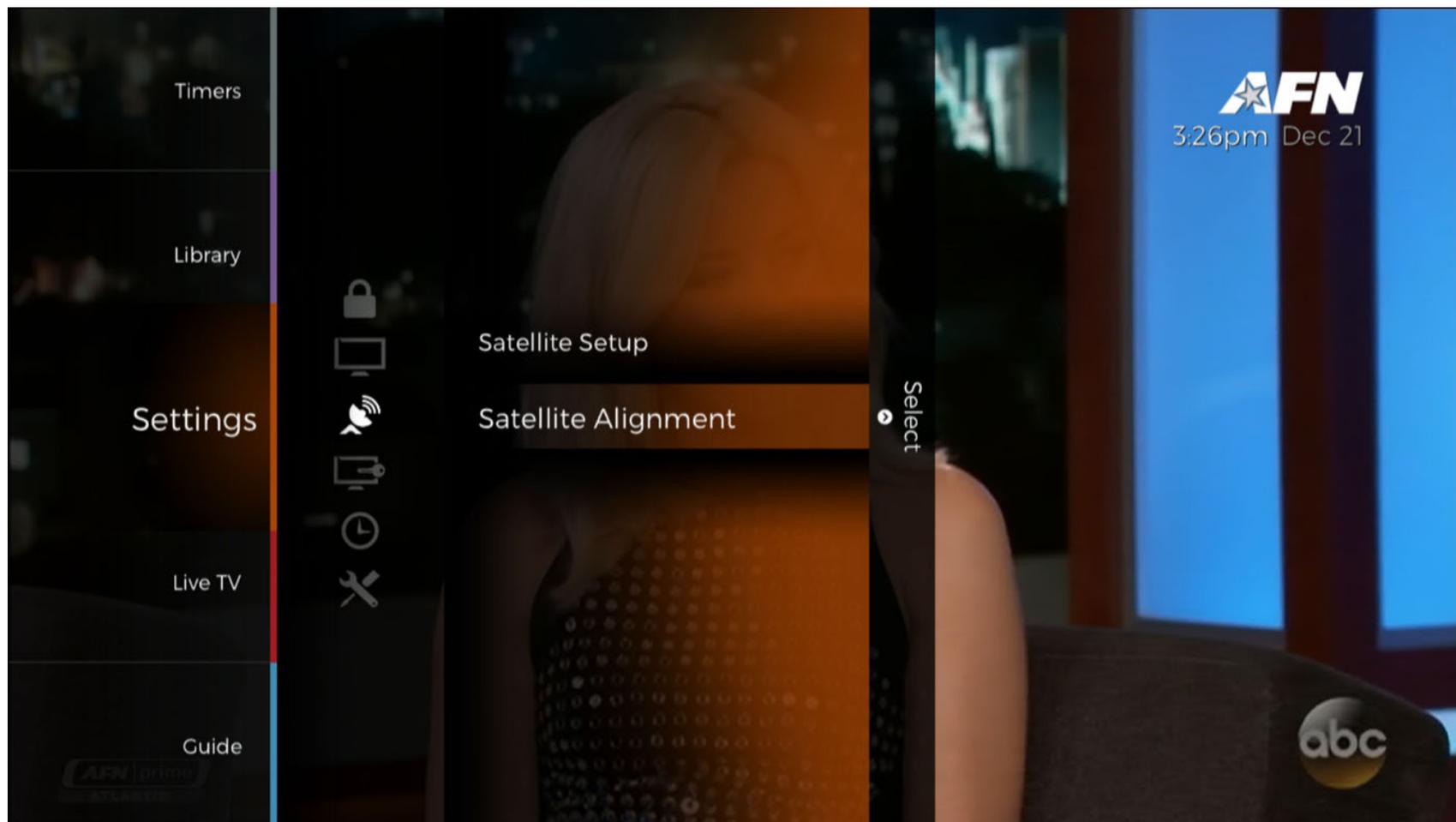
A progress bar will appear, followed by the number of Services found. Select **'Continue'** to return to the menu. The Satellite should now be setup.

Your actual settings may be different depending upon which satellite you're using to obtain the AFN signal. Settings guides for all satellites are available on <http://www.myafn.net/>.

Satellite Alignment

The Satellite Alignment settings can be found under [Menu] > **'Settings'** > **'Installation'** > **'Satellite Alignment'**.

The **'Satellite Alignment'** submenu allows the user to check their alignment. This can be useful to determine cause if service is disrupted.



As long as the meter is green and reads over 60, you have a good satellite signal. This does not necessarily mean you are on the AFN satellite. Press [OK] in order to return to the previous menu.



CA (Conditional Access)

The CA settings can be found under [Menu] > **'Settings'** > **'CA'**.

The **'CA'** submenu is where you can access the Conditional Access settings.

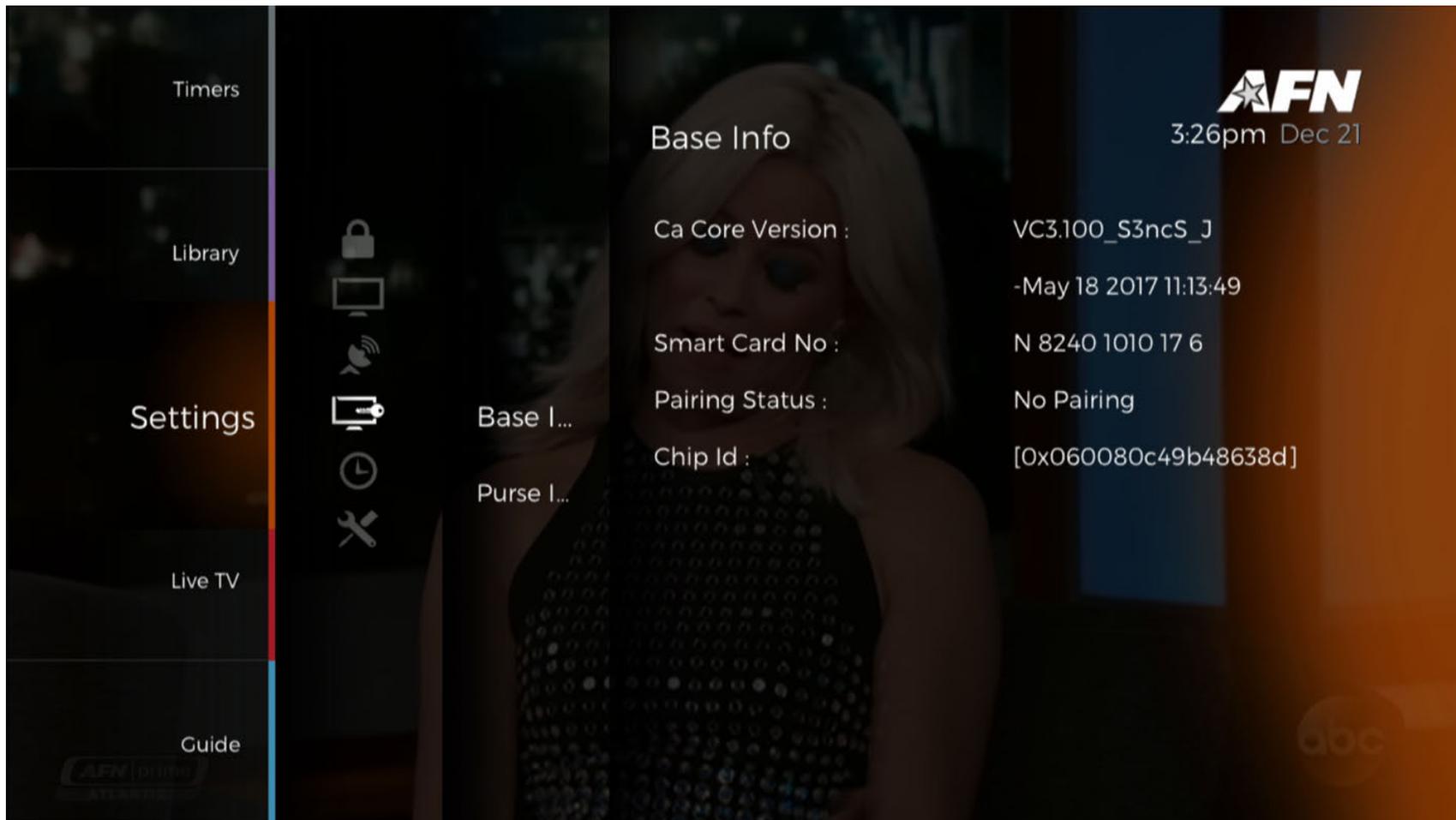


Base Info

Base Info can be found under [Menu] > **'Settings'** > **'CA'** > **'Base Info'**. This does not reference the base you are on or assigned to. It relates to the STB's CA (Conditional Access) information.



The **'Base Info'** submenu shows the Smart Card No. and other information related to your Decoder.

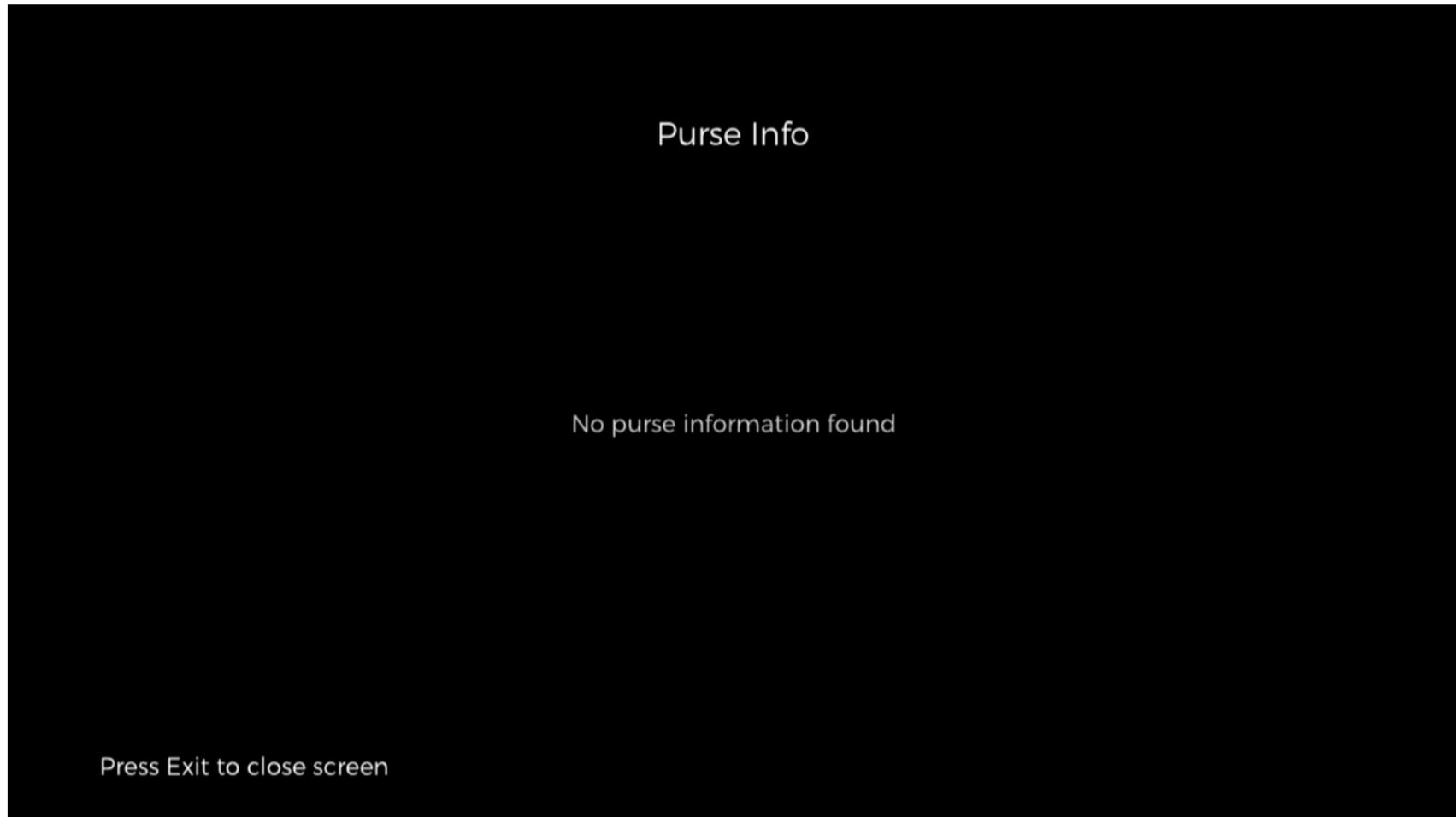


Purse Info

Purse Info can be found under [Menu] > **'Settings'** > **'CA'** > **'Purse Info'**.



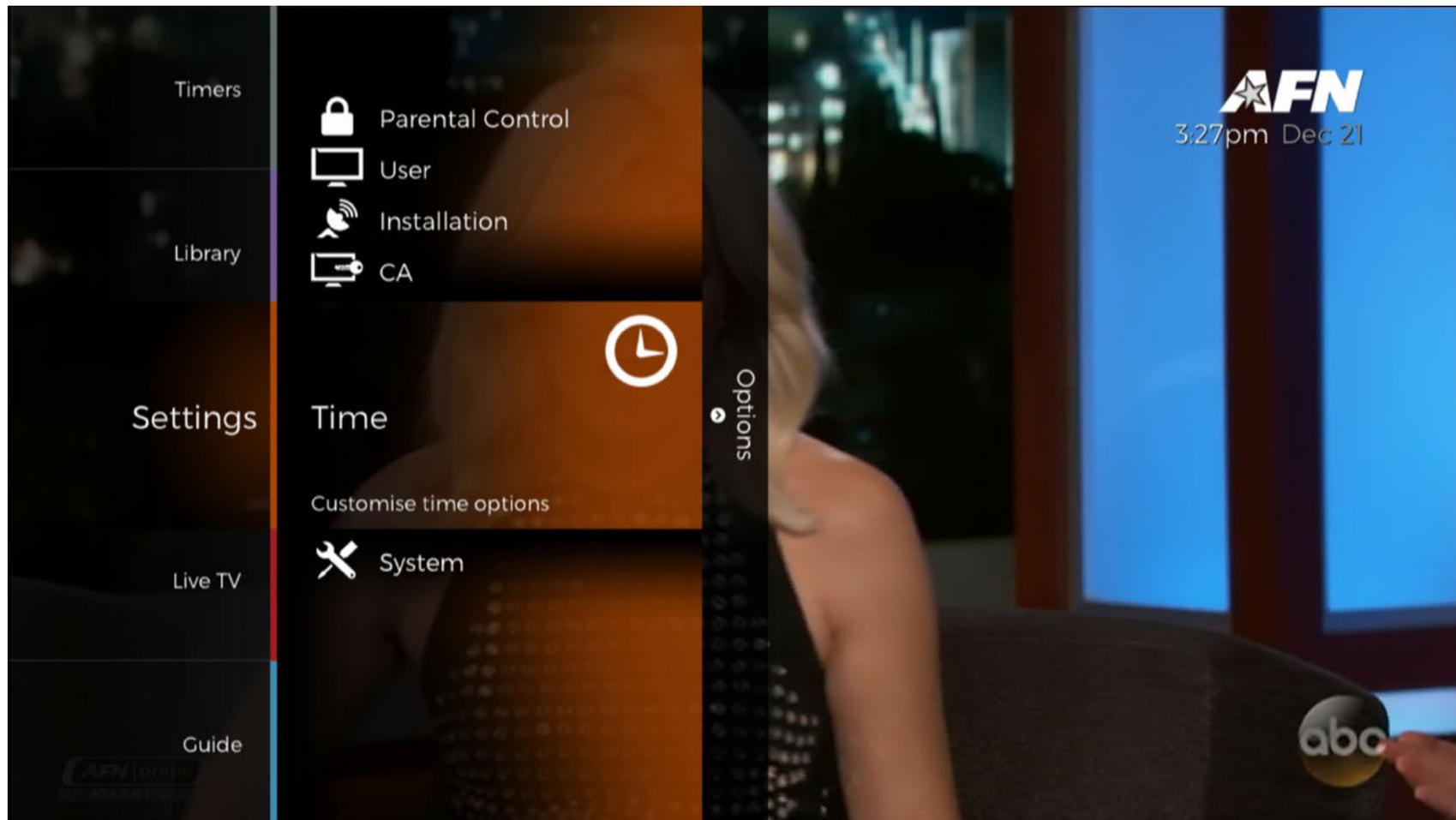
The '**Purse Info**' submenu is used to display the amount of available credit for purchasing PPV events. For AFN Decoders, no information will be found as it does not utilize this functionality.



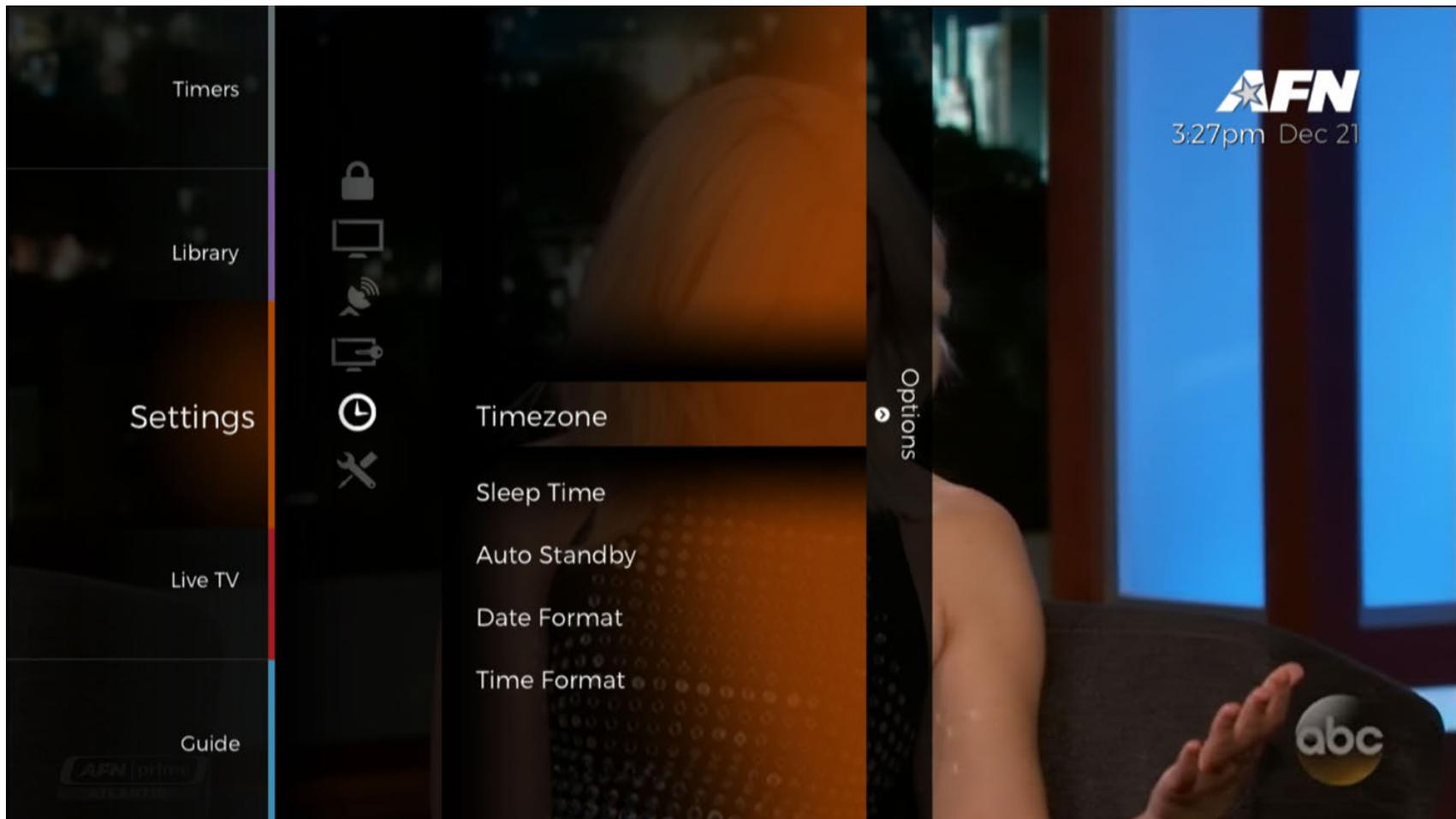
Time

The time settings can be found under [Menu] > **'Settings'** > **'Time'**.

The **'Time'** submenu allows the user to set the time parameters for their Decoder.



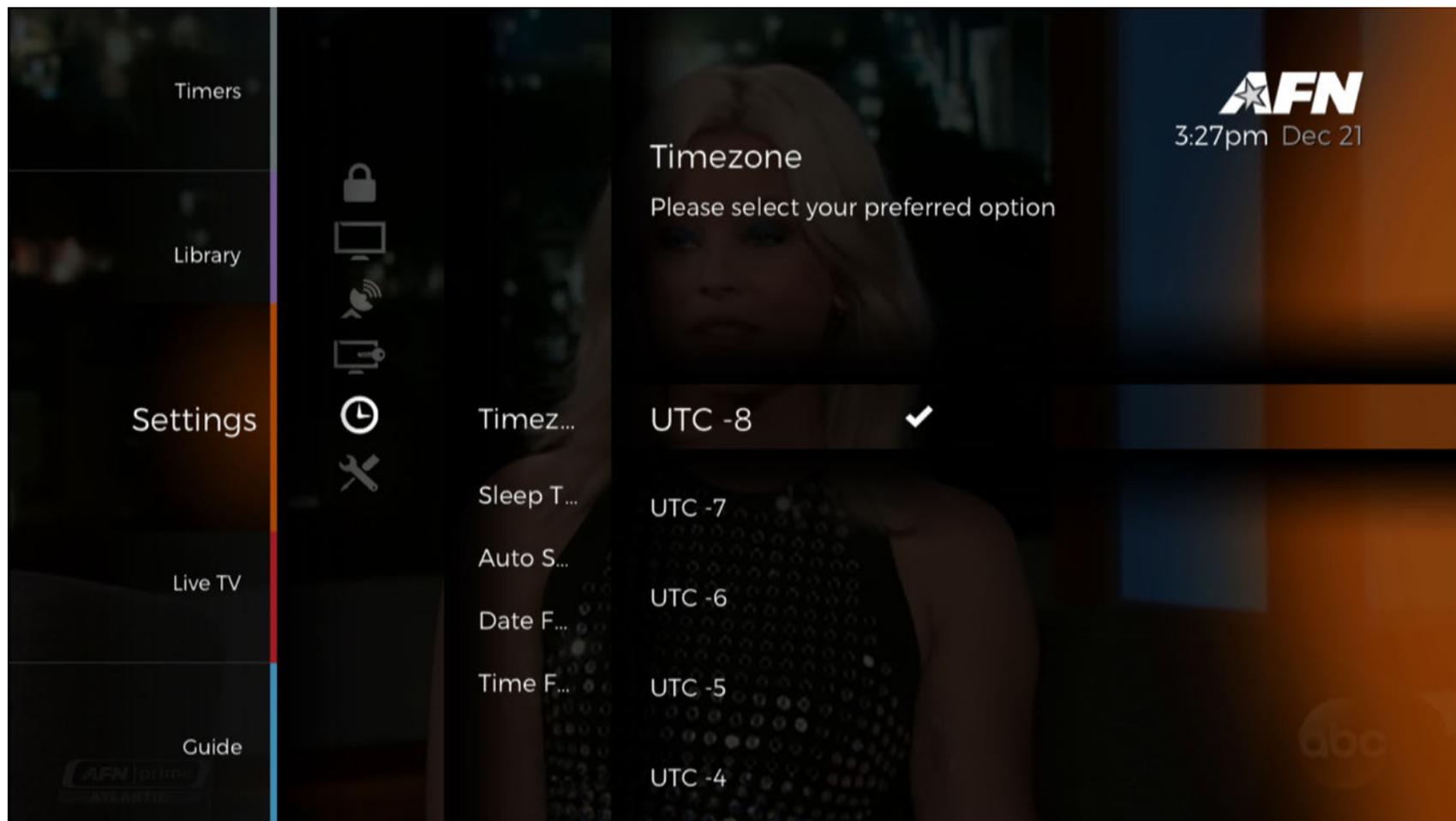
The following submenus are available: **'Timezone'**, **'Sleep Time'**, **'Auto Standby'**, **'Date Format'**, **'Time Format'**.



Timezone

The Timezone settings can be found under [Menu] > **'Settings'** > **'Time'** > **'Timezone'**.

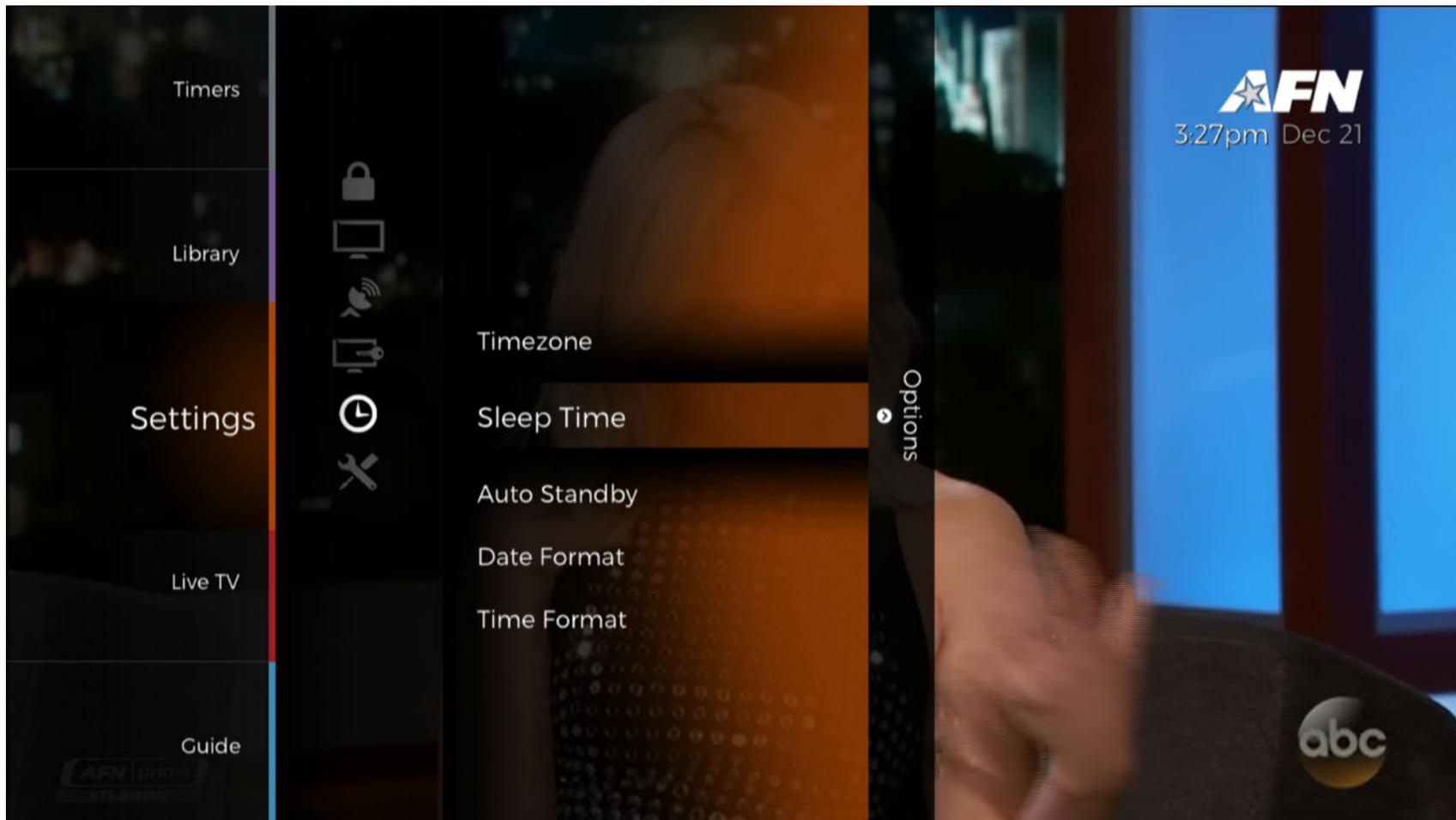
The **'Timezone'** submenu allows the user to select their timecode. A map of all time zones linked to UTC can be found at <https://www.timeanddate.com/time/map/>



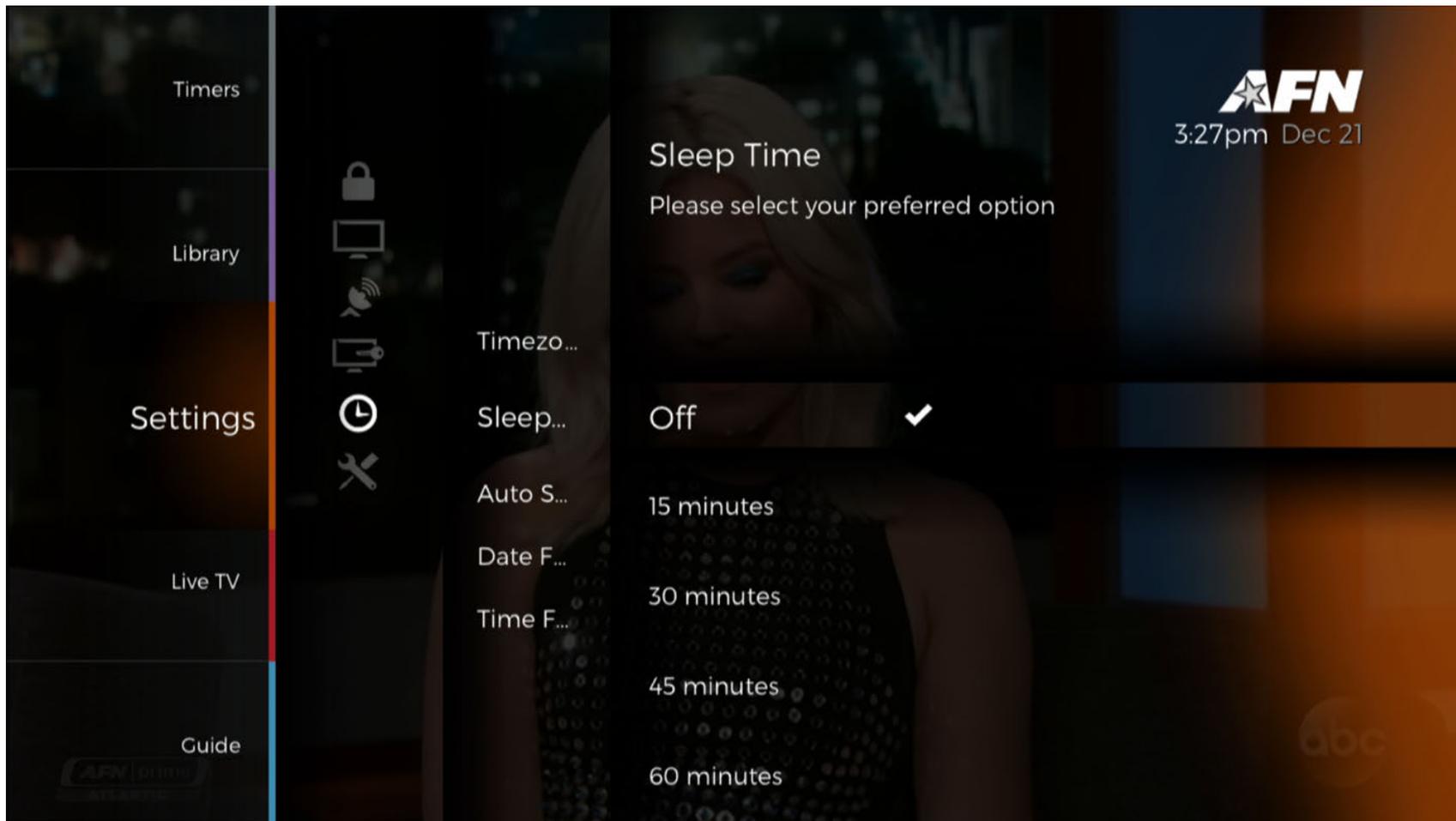
Sleep Time

The Sleep Time settings can be found under [Menu] > **'Settings'** > **'Time'** > **'Sleep Time'**.

The **'Sleep Time'** submenu allows the user to set a time period after which the Decoder will go to sleep if there has been no activity on the Decoder.



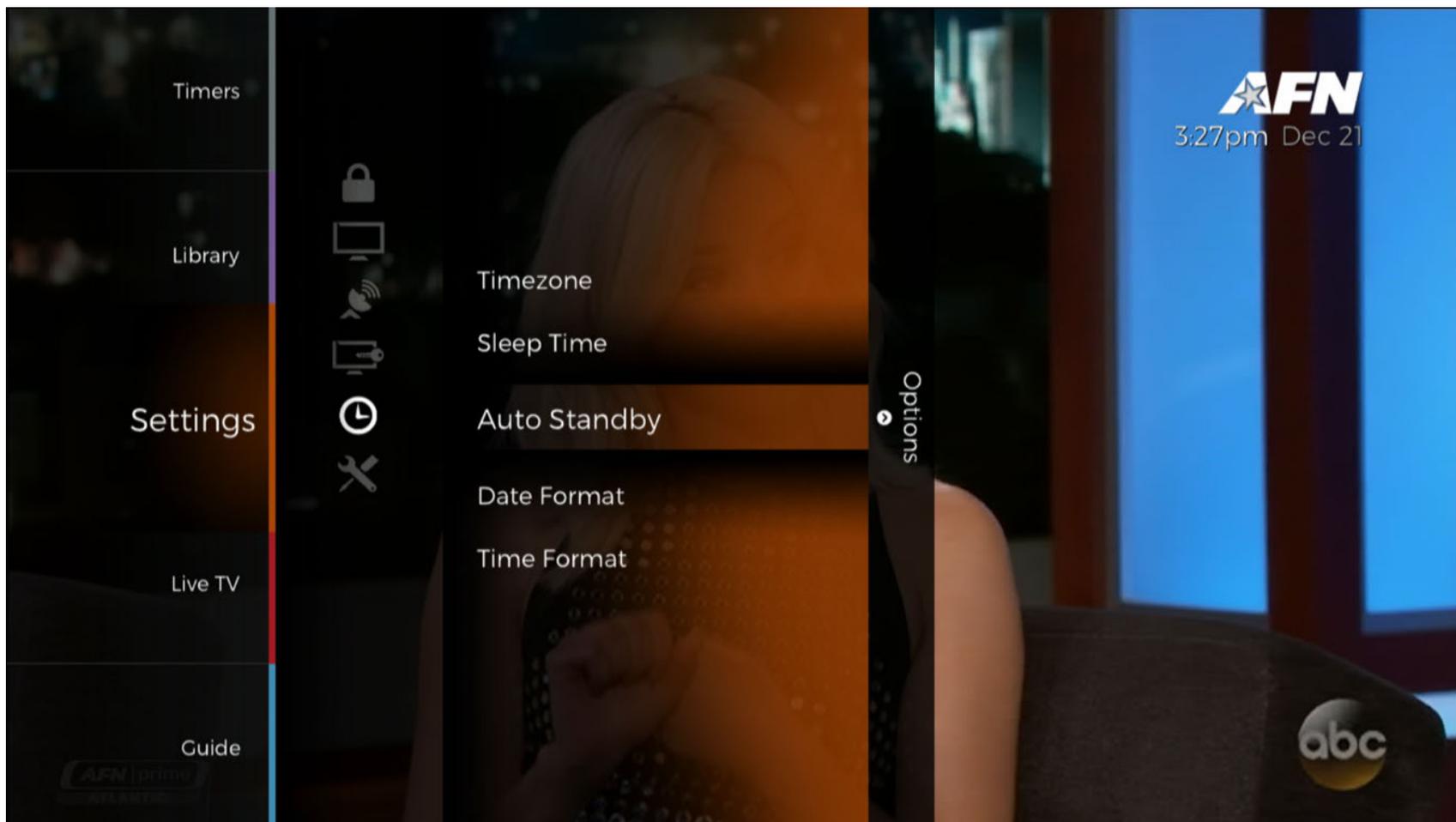
The options are **'Off'** followed by 15 minute increments.



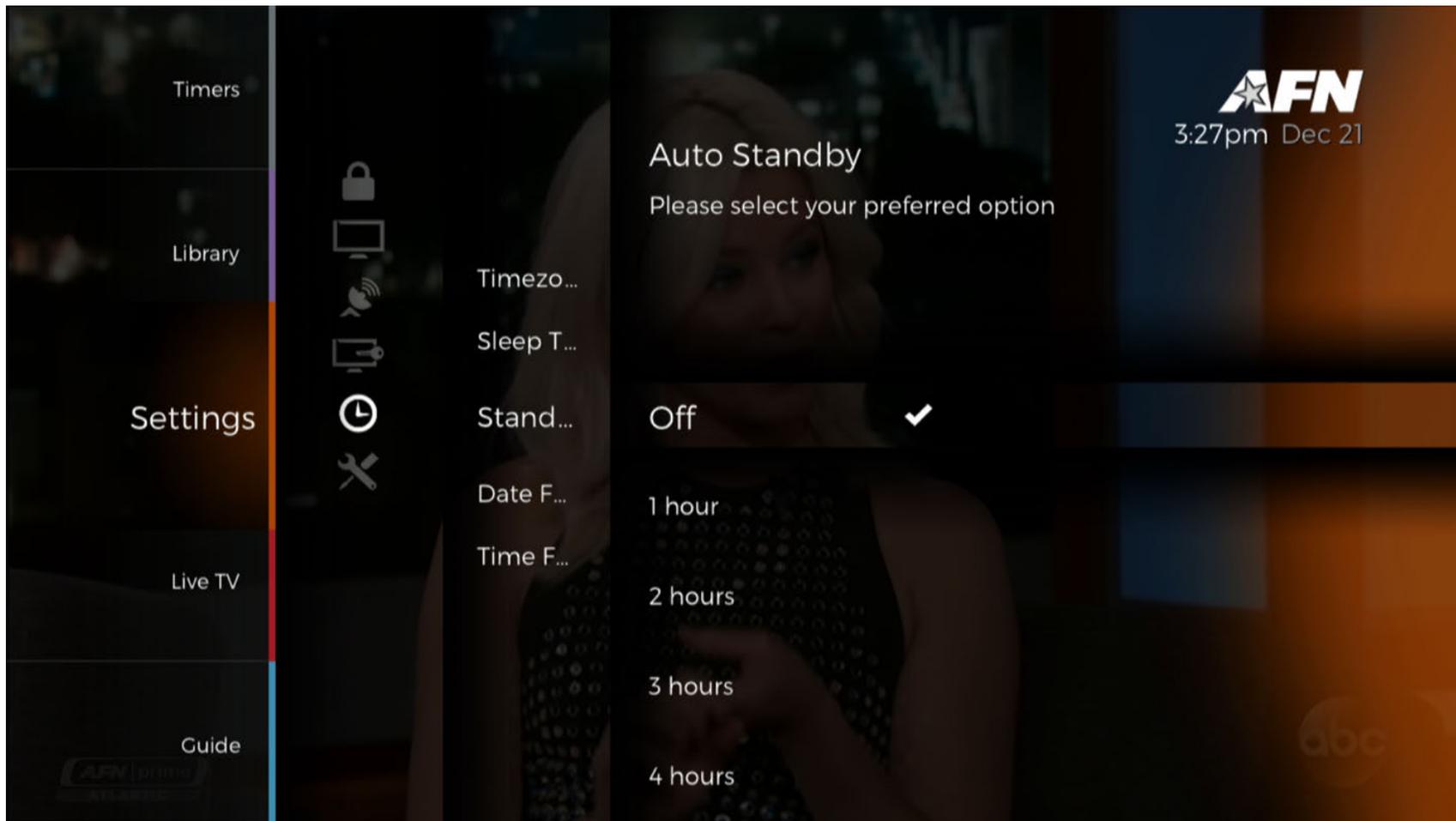
Auto Standby

The Auto Standby settings can be found under [Menu] > **'Settings'** > **'Time'** > **'Auto Standby'**.

The **'Auto Standby'** submenu allows the user to set the period of time after which the Decoder goes into Standby mode. Unlike sleep, in Standby, the decoder will stop sending an image and the LED front panel will turn off.



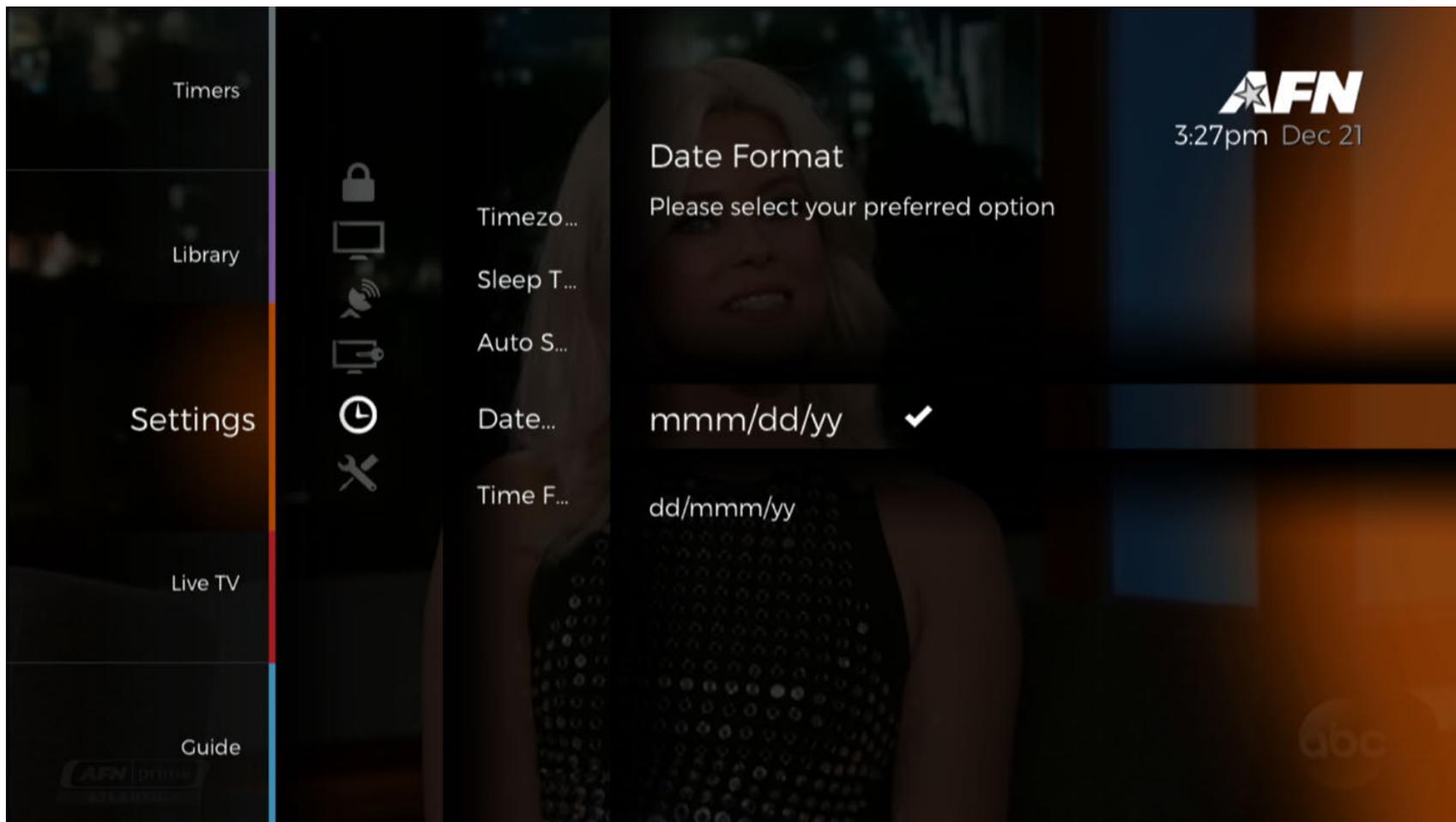
The options are **'Off'** followed by hour increments.



Date Format

The Date Format settings can be found under [Menu] > **'Settings'** > **'Time'** > **'Date Format'**.

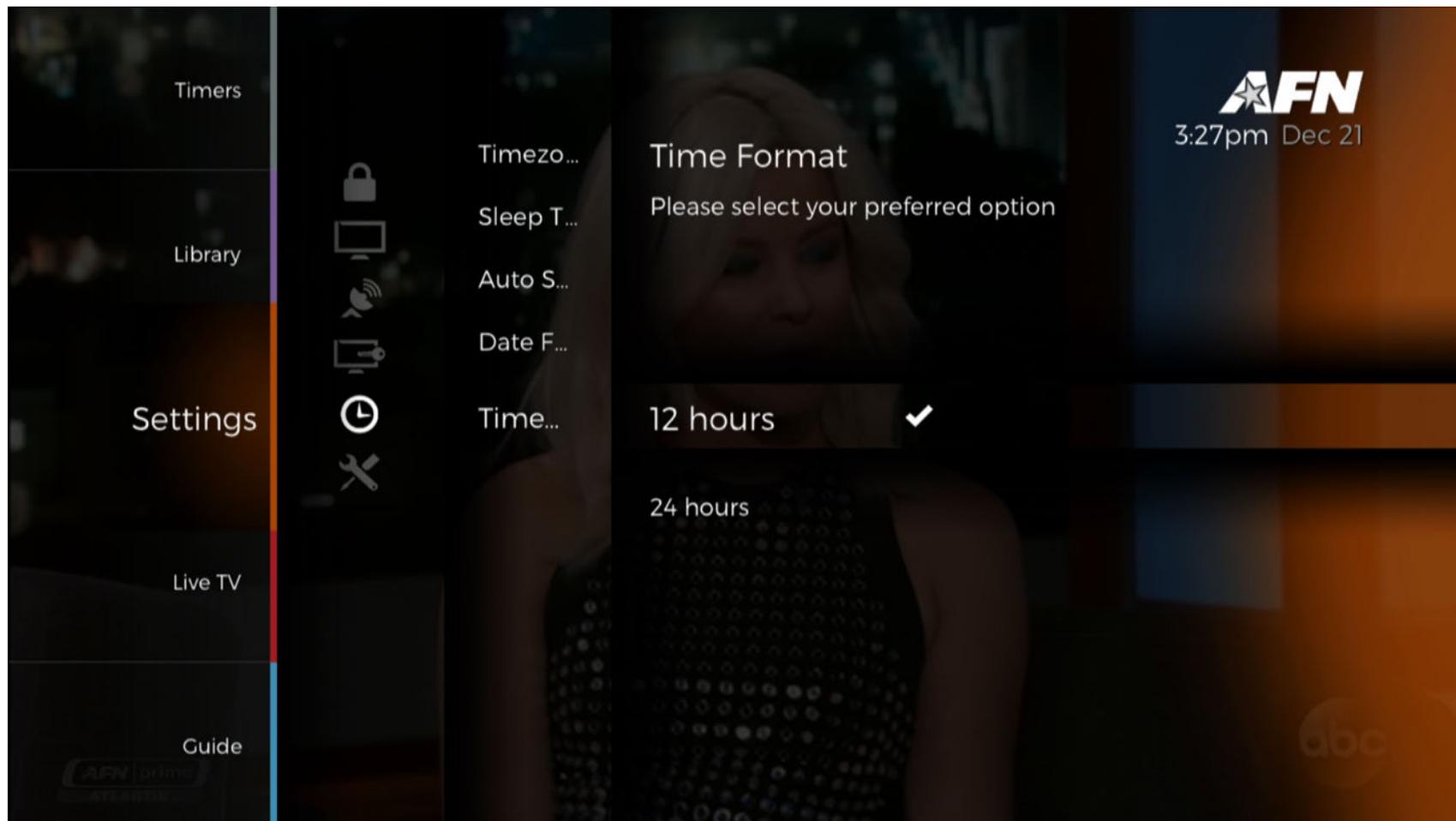
The **'Date Format'** submenu is where the user can define the month, date, and year format that will be used throughout the system.



Time Format

The Time Format settings can be found under [Menu] > **'Settings'** > **'Time'** > **'Time Format'**.

The **'Time Format'** submenu allows the user to select between **'12 hour'** and **'24 hour'** time formats.

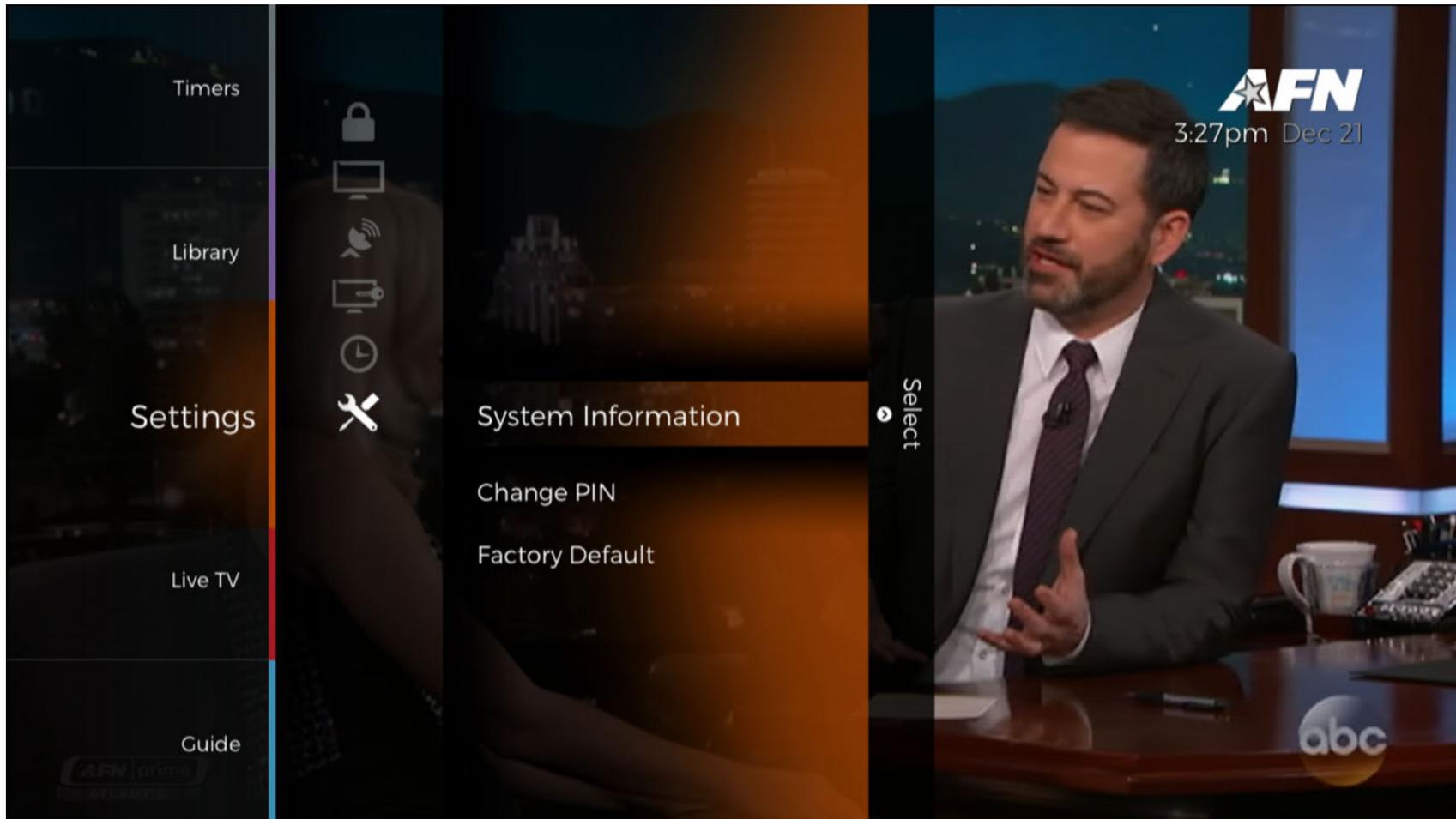


System

The System settings can be found under [Menu] > **'Settings'** > **'System'**.



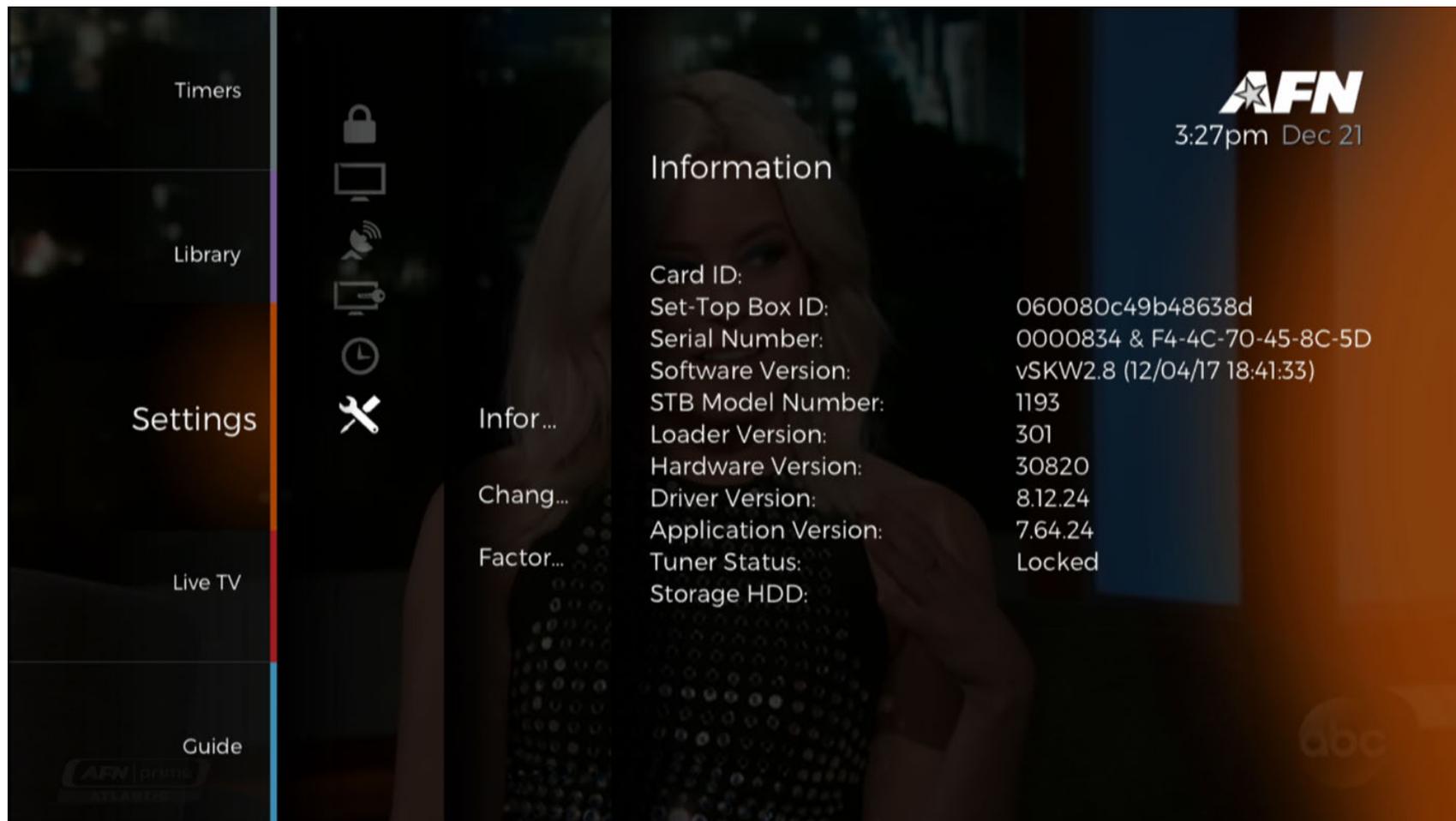
The **'System'** submenu is where **'System Info'** can be viewed as well as options to reset the Decoder to **'Factory Default'** and **'Change PIN'** for the system PIN number.



System Info

The System Info can be found under [Menu] > **'Settings'** > **'System'** > **'System Info'**.

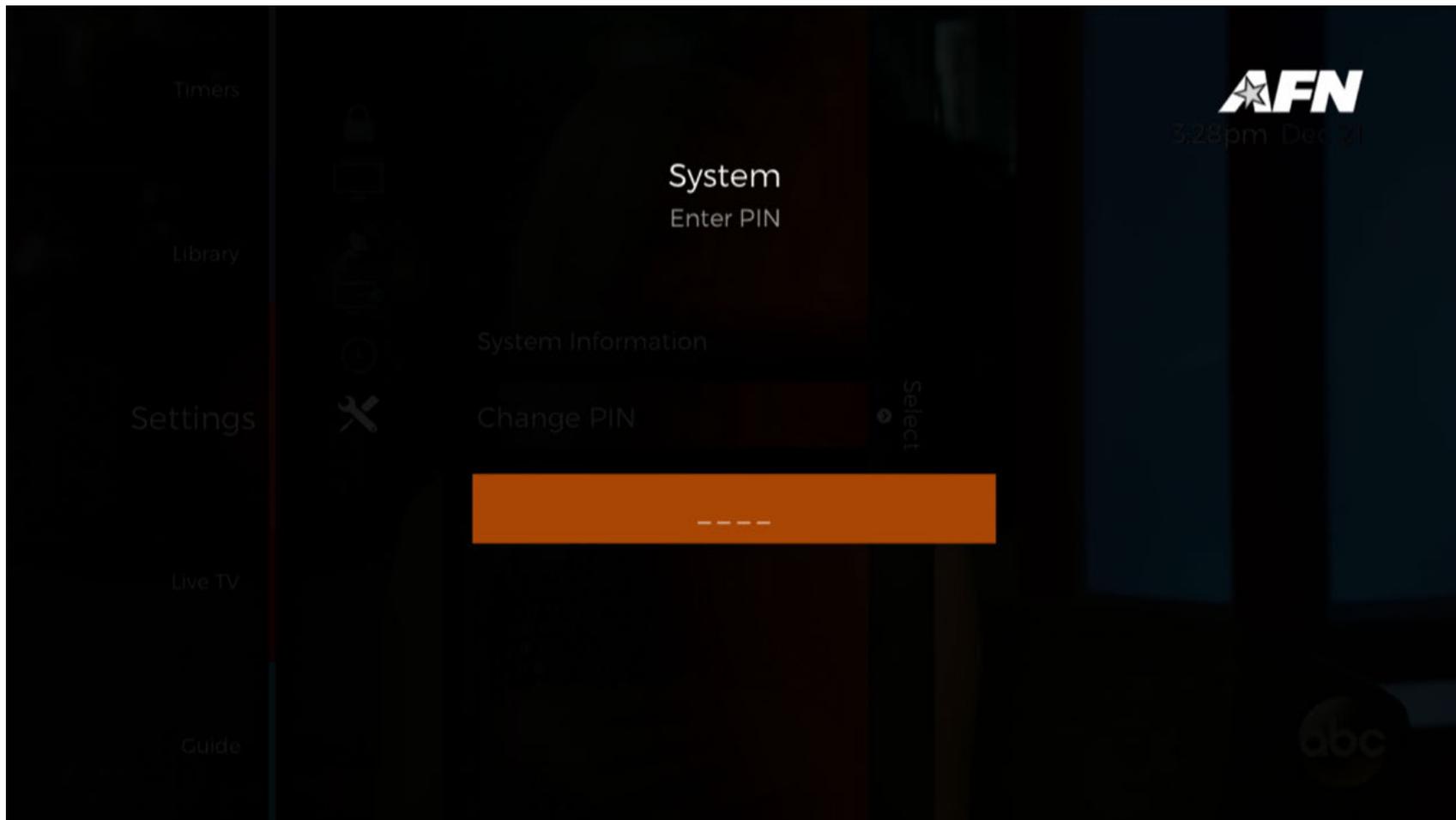
The **'System Info'** submenu is where all the information for the system such as model numbers and software versions can be viewed.



Change PIN

The Change PIN settings can be found under [Menu] > **'Settings'** > **'System'** > **'Change PIN'**.

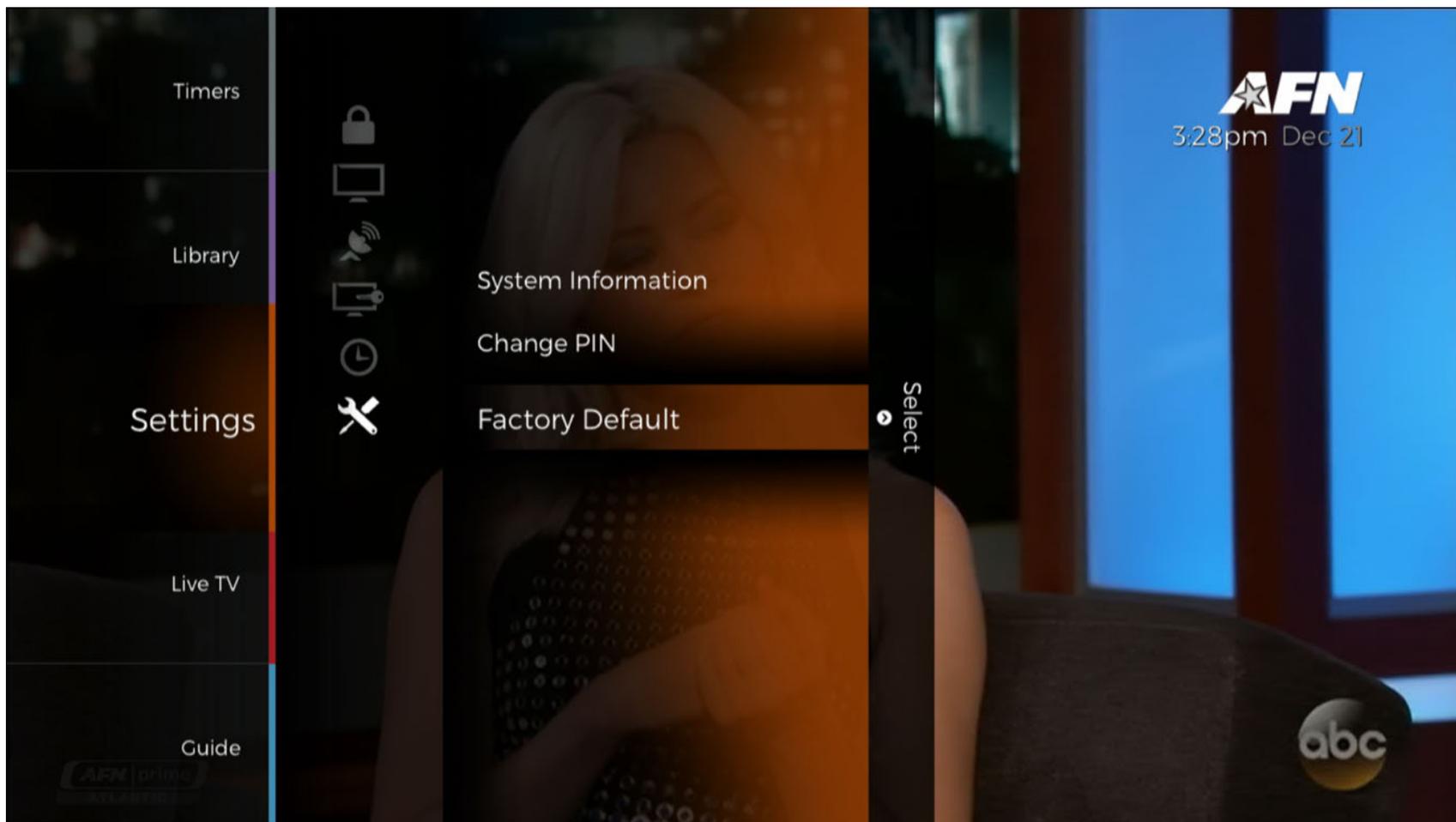
The **'Change PIN'** submenu allows the user to change the system PIN that is used for various functions, such as setting up the Satellite. The default PIN is 0000.



Factory Default

The Factory Default settings can be found under [Menu] > **'Settings'** > **'System'** > **'Factory Default'**.

The **'Factory Default'** option allows the user to reset their Decoder to the default settings. The service list will be recreated, but the recorded programs will not be erased.

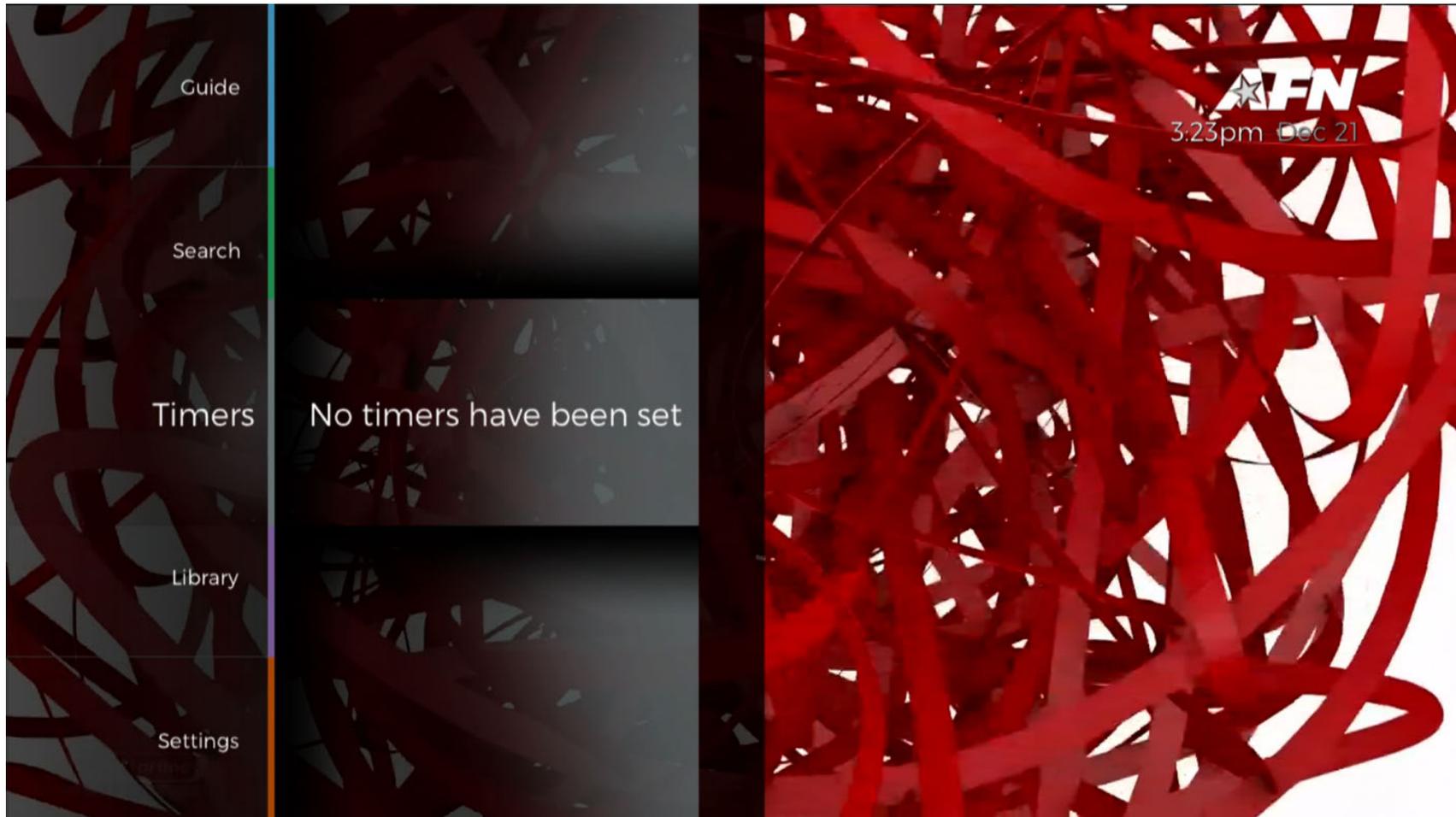


Timers

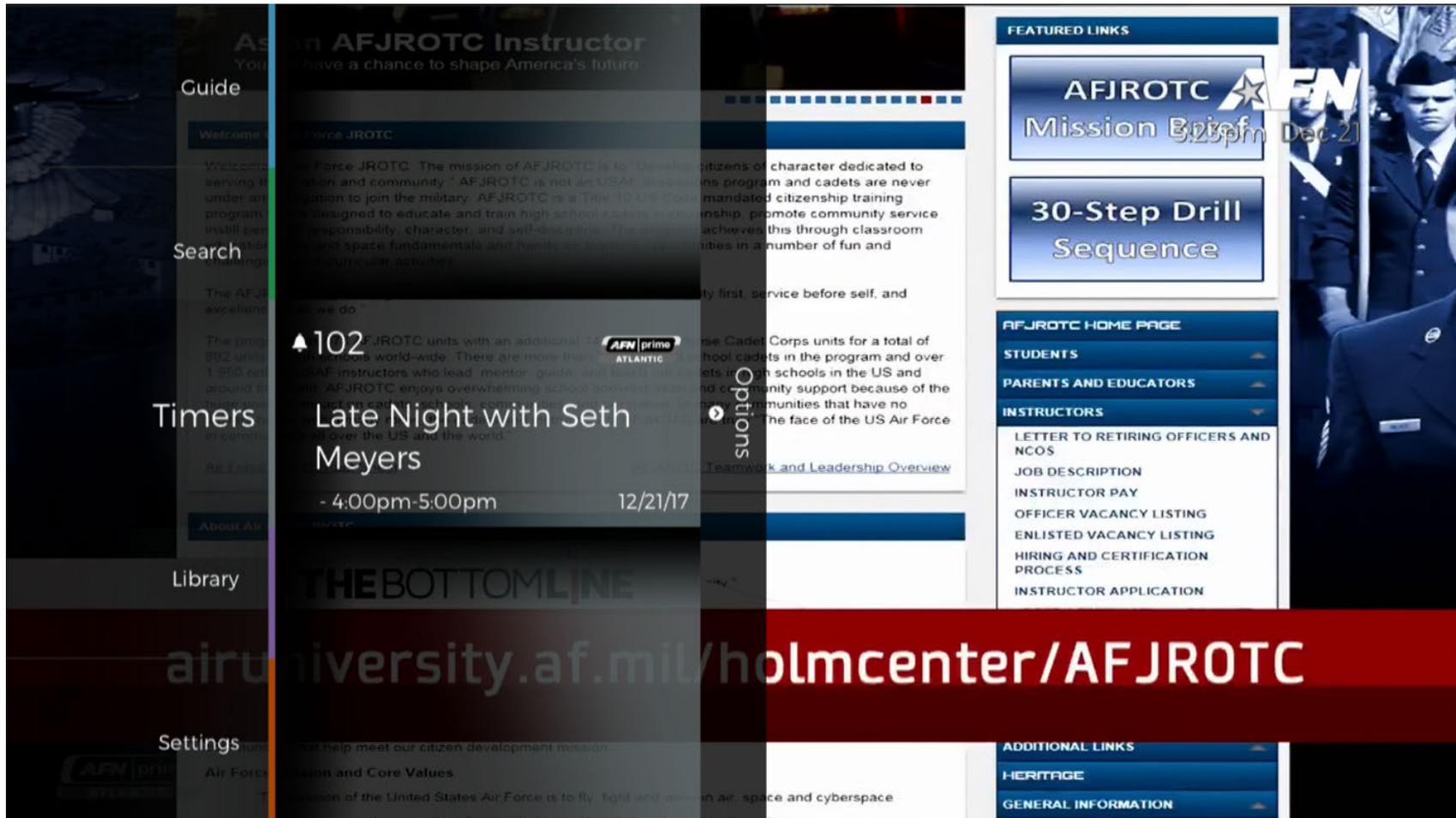
Select the [Menu] button on the remote to access the menu and use the [▲/▼] to navigate to 'Timers' and press the [OK] button to select.



If no programs have set Reminders or Recordings, the menu will be empty.



If Reminders or Recordings have been set, the programs will appear under the **Timers** menu.



From this menu, a Reminder can be deleted. Simply select the program and press the [OK] button. Then, on the following prompt, select **'Delete'** and press the [OK] button.

The screenshot displays the AFJROTC website interface. On the left, a vertical navigation menu includes options: Guide, Search, Timers, Library, and Settings. The main content area features a video player titled "Late Night with Seth Meyers" with a "Delete" button overlaid on it. To the right, there are "FEATURED LINKS" including "AFJROTC Mission" (3:23pm Dec 21) and "30-Step Sequence" (Duration: 60 min, 4:00pm - 5:00pm 12/21/17). Below these are sections for "AFJROTC HOME PAGE" with sub-sections: STUDENTS, PARENTS AND EDUCATORS, INSTRUCTORS, and LETTER TO RETIRING OFFICERS AND. Further down, there are links for "JOB DESCRIPTION", "INSTRUCTOR PA", "OFFICER VACANCY LISTING", "ENLISTED VACANCY LISTING", "HIRING AND CERTIFICATION PROCESS", and "INSTRUCTOR APPLICATION". At the bottom, there are "ADDITIONAL LINKS" for "HERITAGE" and "GENERAL INFORMATION". The URL "airuniversity.af.mil/holmcenter/AFJROTC" is visible at the bottom of the page.

General Troubleshooting

If you run into problems with the Decoder, use the procedures described below to troubleshoot your unit. Under any circumstances, do not open the Decoder cover, as it will void the warranty and could cause electrical shock.

Problem	Possible Cause	Solution
The front panel doesn't display any numbers or text	The power cord is not plugged in and/or the Power switch on rear panel is set to Off.	Check that the power cable is plugged in to the wall outlet and the Decoder and that the Power switch on rear panel is set to On.
No picture or sound	Wrong connection of the audio/video output of the Decoder to TV.	Reconnect the audio/video output of the Decoder to TV using the proper connection.
	No signal/bad signal message appears.	Check other devices connected between the cable connection and the Decoder.
	Audio is muted	Press the MUTE button.
	TV power is off	Turn your TV on
	Wrong TV input	Make sure the TV has been set to the correct video input. For example, if you have connected the unit to the Video 1 input of the TV, then you need to select the corresponding input of the TV. Usually this is done using the AV or Input button of the TV's remote.

No picture	The Decoder can't receive the signal.	Check the cable, replace the cable, or connect the cable to the Decoder tightly.
	Incorrect values of some tuner parameters.	Set the values of tuner parameters correctly. Refer to the installation menu.
The remote control does not work	The batteries of the remote control are depleted, or have not been inserted properly.	Check whether the batteries are inserted correctly in your remote control. Check and replace the batteries of the remote control.

Troubleshooting Tips

Problem: *Signal loop of “no services found”*

Possible solution(s): Upgrade was not successfully loaded/ reload of upgrade may be required. Dish or LNB misaligned and are not on the AFN satellite. Bad cable or splitter in the path to the decoder.

Problem: *“unable to decrypt the service” error*

Solution(s): There is a 10-15 min delay (depending on key change cycle) where the decoder awaits its refresh key from the head end. It may take up to three cycles to receive correctly. Allow up to one hour to authorize. The decoder has not been authorized by AFN.

Problem: *Record functionality does not work properly or gives “Hardware not found” error*

Solution(s): Upgrade to decoder did not fully load. Formatting the HDD may fix this problem. Factory reset required for the decoder to recognize the HDD drives. This is performed with the following steps, in order (each of these may be required multiple times before decoder recognizes the HDD):

1. From the “Main Menu”, select “Settings”, then “System”, then “Factory Default”. The screen will ask for a PIN. The default PIN is “0000” (four zeros). Entering the PIN will open a submenu with “Cancel” and “Factory Reset” options. Factory Reset should format the HDD if it was not already formatted.
2. If step one does not work, then it is possible to force a reformat, but only after attempting the Factory Reset option above. With the STB powered on, press the left arrow key and the exit key on the front of the STB alternately until the HDD reformatting message appears on the screen.
3. If neither of the operations fixes the problem, then the unit should be returned for repair.

A factory reset will delete all recordings, reminders, and parental controls.

Problem: *Unable to program universal remote for decoder control*

Solution: Universal remotes may or may not contain the necessary codes to emulate the AFN7500HD remote. This remote is found under manufacturer NEC or Skyworth with code number 6121. If this code is not available, one of the other codes under these two manufacturers may work.”

Problem: *Satellite option not available in the drop-down menu during set-up.*

Solution: Software revision may need to be changed or updated to provide the latest satellite info.

Problem: *Not receiving subtitles*

Solution: AFN does not transmit subtitles. They only send closed captioning (CC). The 7500 must have ver 2.06 and above to process CC. There is a [CC] button on the near the record button on the remote. It turns CC on and off.

Problem: *We receive AFN on Eutelsat 9B and do not have a signal lock. Other than peaking the antenna are there any other tips?*

Solution: Technical response that may only make sense to a qualified satellite installer.

LNB Polarization - the AFN signal on Eutelsat 9B is Right Hand Circular polarized. Many users have the Titanium C1 PLL Wideband LNB because it's the easiest one to find on Amazon. This LNB adjusts its polarization to RHC if fed 13 volts (normally the vertical setting) and LHC if fed 18 volts (normally the horizontal setting). If the LNB is installed in the normal orientation with 0 degrees facing the top of the dish, that requires using the vertical polarization setting in the Cisco decoders to achieve right hand circular polarization and for everything to work.

However, with the AFN7500HD, even on a setup where the Cisco decoder works well when set to vertical polarization and gets a strong signal with good quality, has not been able to get the 7500HD to lock. Testing the output, it does put out 13 volts on the vertical setting and 18 volts on horizontal once the software update was applied, but still no lock.

To work correctly, you need to adjust the orientation of the LNB to horizontal and the AFN7500HD decoder should lock. The Cisco will also lock in this configuration if LNB power is set to horizontal or to LNB power is off.

LNB Power - some customers have both a 7500HD and a Cisco decoder. In this case, only one decoder should power the LNB, and turn LNB power off for the 2nd decoder. The Cisco decoder has a setting for this, but the 7500HD does not. You can also use a Power Divider Splitter to block power from one input.

Initial Channel Scan - on some of the decoders, when doing the initial setup, even if the signal quality is strong (over 60), connect both coax inputs on the back of the AFN7500HD (using a Power Divider) just for the channel scan. Once it finds all the services, and goes into normal operation, just feed the A input and it operates normally.

Questions and Answers

Where can I find the AFN Channel Lineup or list of satellites?

Visit <http://www.myafn.net/>, refer to the AFN Info section for the latest help, manuals, fact sheets, and other useful tips.

If I need support, what information do I need to provide?

Be ready to provide the decoder serial and NSC ID number, software version number, and satellite settings for your STB. This may help to determine the cause and potential resolution for an issue.

Software Version - find this information by entering the Main Menu->Settings->System->System Information. Provide the following:

Software Version -

STB Model Number -

Loader Version -

Driver Version -

Application Version -

Current Satellite Settings - find this under Menu->Settings->Installation->Satellite Setup->(enter code-0000)->Continue-->

Under Select Satellite, make note of the settings.

If Transponder is set to "Automatic", then exit that is all we need.

If Transponder is set to "Manual", press "Continue" and make note of all the "Configure Transponder" settings. Then press "Exit" on your remote or 7500 front panel.

How many services are on AFN?

The total number of services for all four networks are:

AFN Pacific – 32 total - 8 Video and 22 Radio, plus 2 Video Test Services

AFN Atlantic – 37 total - 8 Video and 27 Radio, plus 2 Video Test Services

DTS Pacific – 7 total - 3 Video and 4 Radio

DTS Atlantic – 7 total - 3 Video and 4 Radio

When and how will features be added to the decoder?

The AFN7500HD firmware may add new features and bug fixes with each release. New firmware versions will be automatically transmitted over the satellite (OTA).

How do I perform a Factory Reset?

A Factory Reset may need to be performed after a firmware upgrade if you are experiencing any operational issues.

1. Press 'menu' on decoder or remote
2. Select 'settings'
3. Select 'system'
4. Select 'factory default'
5. Enter code "0000"
6. Highlight 'factory reset' press continue
7. After auto reboot of decoder, perform power cycle by doing the following:
 - With the decoder on, pull the power cord
 - Wait 1-2 minutes
 - Replace power cord and continue with boot process of decoder.

I am having problems recording and on screen it is displaying "No Space Available". I have very few or no recordings, how do I fix?

A Factory Reset should be performed fully (including power cycle) to eliminate this issue. See the previous question for instructions.

How many hours of programming will the DVR HDD hold?

It depends on the type of programming and whether it is High Definition, Standard Definition, or audio only. Generally, expect at least 175 hours of recordings.

Why am I seeing Pixilation during recording?

If you are experiencing pixelization either while watching a data intensive program (such as sports content) or during a record content playback (black screen or pixelization present during playback of a recording program) your satellite dish, LNB or other equipment may be causing noise that overcomes the signal. We suggest finding a professional satellite antenna installer for assistance or download the Signal Acquisition Guide from myafn.net.

Technical Specifications

SATELLITE TUNER

Tuner Type	DVB-S and DVB-S2
Frequency Range	250~2150MHz
Input Impedance	75Ω
LNB Power	400mA Min
Input Level Range	65dBm ~ -25dBm
Signal Input	IEC 169-24, F-Type, Female
Demodulation	DVB-S (QPSK)/DVB-S2 (QPSK, 8PSK)
Symbol Rate	1~45Msps in DVB-S, 2~45Msps in DVB-S2

VIDEO AND AUDIO

Video Decode	MPEG-2 and MPEG-4 AVC H.264
Aspect Ratio	4:3, Letterbox, 16:9, and Pan & Scan
Video Resolution	1080p, 1080i, 720p, and 480i
Audio Decode	MPEG-1 Layer 1 and 2
Audio Output Types	Stereo and Mono
Sampling Frequency	32KHz, 44.1 KHz, and 48KHz

Supported Audio Formats MP1L1, AC3 2.0 (Dolby), AC3 5.1 (Dolby), and AAC/ACC-HE AAC, Dolby Digital, Dolby Digital+ are provided on the output digital ports (SPDIF, HDMI)

Subtitles and Closed Caption are Supported

CONTROLS

Front Panel Keypad and LCD

48 Key Remote Control

PHYSICAL

Dimensions (H x W x D) 1.8 in x 11 in x 6.6 in
4.5 cm x 28 cm x 16.7 cm

Weight 4.4 lbs / 2kg

Power 12V/2A 2.1mm DC Jack

Power Supply External

Plug Type US Standard

AC Input (V/Hz) 100~240V, 50/60 Hz

Output Voltage (V) 12V

Max. Output Current 2A

Lightning Level Common Mode 6KV, Difference Mode 4KV

Efficiency >80%

ENVIRONMENTAL AND CERTIFICATIONS

Input Voltage	100~240V
Work Temperature	0~40°C
Storage Temperature	-40~70°C
Consumption	24W Max
Standby Consumption	0.5W
Humidity	<95%
Certification	UL, CE, FCC, and RoHs

BACK PANEL

LNB IN	IEC 60169-24 F-Type Female
RCA	(1) CVBS and (2) Audio L/R
S/PDIF	(1) Coax & (1) Optical
HDMI	(1) HDMI - 19 Pin Female
Ethernet	(1) RJ45
USB	(1) USB 2.0