



Full HD 1080p Dual Tuner Digital HDTV Recorder, Receiver and Media Center Box


OWNER'S MANUAL


MODEL : PHD-VRX





CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
 DO NOT REMOVE COVER (OR BACK)
 NO USER-SERVICEABLE PARTS INSIDE
 REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

 This lighting flash with arrowhead symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.

 This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE

CAUTION: FCC regulations start that any unauthorized changes or modifications to this equipment may void the user’s authority to operate it.

Note to CABLE/TV Installer: This reminder is provided to call cable TV system installer’s attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

IMPORTANT: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws.

Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these rights.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
 (1) This device may not cause harmful interference, and
 (2) This device must accept any interference that may cause undesired operation.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (Including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two Blades with one wider than the other. A grounding type plug has two blades and a third grounding prong .The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.



- Use only with the cart, stand tripod, bracket, or table specified by the manufacturer, or sold with the apparatus when a cart is used use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Congratulations on choosing PrimeDTV PHD-VRX, *Full HD 1080p Dual Tuner Digital HDTV Recorder, Receiver and Media Center Box*. Please read this manual carefully before operation. For your convenience, this manual will provide pictures and descriptions to make operation as easy as possible. In order to use and maintain the set better, please follow its operating instructions. Thanks for your cooperation.

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■ Introduction

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference.

This manual provides information on the operation of your PHD-VRX, Full HD 1080p Dual Tuner Digital HDTV Recorder, Receiver and Media Center Box. This chapter explains the Technical overview, unpacking, front panel, Rear panel, and Remote control.

Technical overview

This paragraph explains the technical capabilities of the PHD-VRX and provides background information on digital television. Topics covered here include:

- What are Digital TV, NTSC, ATSC, QAM, SDTV, and HDTV?
- What kinds of TV programming can I watch with the Digital HDTV Tuner?
- What equipment is required to view HDTV programming?
- Video / Audio Switcher, Scaling and Enhancing
- Video output options
- Aspect ratio
- Screen formats

What are Digital TV, NTSC, ATSC, QAM, SDTV, and HDTV?

Digital TV

Digital television (sometimes called DTV) is a newer method of broadcasting TV signals that delivers higher quality audio and video. Digital TV is broadcast in two sets of formats, SDTV and HDTV.

NTSC

NTSC (National Television Standards Committee) refers to the group that first established the standards used for conventional analog television broadcasts and TV equipment.

ATSC

ATSC (Advanced Television Systems Committee) is the group who has been working to establish the standards for digital television broadcasts and digital television equipment – including both SDTV and HDTV.

QAM

QAM (Quadrature amplitude modulation) is a method of modulating digital signals on a cable television system in order to transmit digital cable TV channels.

SDTV

SDTV (Standard-Definition TV) is a digital TV format that provides a high quality picture at resolutions that can be displayed on standard TV sets (see more on resolutions later in this chapter).

HDTV

HDTV (High-Definition TV) is a digital TV format that provides the highest quality picture at resolutions that can be displayed on HDTV-ready TV displays, HDTV Monitors and, computer monitors.

What kinds of TV programming can I watch with the Digital HDTV Tuner?

The PHD-VRX has full feature of Digital HDTV Tuner, which provides you with the ability to receive television programs from a wide range of sources, and to display them on general HDTV or monitor.

Using either or both coaxial RF connectors on the back of the Digital HDTV Tuner, you can receive local television programs.



- To view cable TV programming, programming subscriptions are also required.

What equipment is required to view HDTV programming?

To view HDTV programming, an addition to your PHD-VRX, you will need an HDTV monitor or television set.

To receive digital over-the-air (OTA) television broadcasts, you'll need either an indoor or outdoor antenna.

To receive analog and digital cable TV programming, you'll need a cable TV connection (provided by your local cable TV service provider).

Resolution and interlacing

Two of the elements that determine the quality of a TV picture are resolution and interlacing.

Resolution

For TV equipment and broadcasts, resolution is defined by the number of horizontal lines displayed to make up each frame of a video image. The more lines of resolution used to draw each frame of video, the more detailed and sharp the picture will be. Standard TV resolution uses 480 horizontal lines to make up each of video.

HDTV uses either 720 lines, or 1080 lines to make each video frame.

Interlacing

When TVs display video, they display a new video frame at a rate that is faster than your eye can see (from 24 to 60 frames per second, depending on the TV and broadcast).

Interlacing refers to whether each of those frames contains all of the lines of video for each frame or every other line. Interlaced signals take every other line frame 2 frames of video (each lasting $1/60^{\text{th}}$ of a second), and combine them into one frame lasting $1/30^{\text{th}}$ of a second. In this way, interlacing tricks your eye into thinking it is seeing twice the resolution that is actually being displayed.

In non-interlaced video, (referred to as progressive scan video), video frames are displayed every $1/60^{\text{th}}$ of a second containing all of the lines of video information for each frame.

The specifications for video resolutions are usually stated by giving the number of horizontal lines, followed by either the letter i, for interlaced video, or p for progressive scan (non-interlaced) video. Some DVDs and non-HDTV digital TV broadcasts use 480p.

The ATSC specification for HDTV broadcasts and equipment requires either 1080i or 720p.



- One of the enhanced features of PHD-VRX is to allow scaling HD 1080i/720p video up to 1080p @ 60Hz video quality. The results, video has more fine pixels and vivid on many high-end TV display.

Input formats

The PHD-VRX, Full HD 1080p Dual Tuner Digital HDTV Recorder, Receiver and Media Center Box, is able to receive broadcasts in any of the resolutions mentioned above. It will then do the appropriate conversion from input signal format to general TV display format.

The table below details the results you get with each combination of input signal format.

	Type	Aspect Ratio	Compression Size Values	Frame Rate	
18	H	16:9	1920×1080	30p	
17				24p	
16				30i	
15	T		1280×720	60p	
14	V			30p	
13				24p	
12	S	4:3	704×480	60p	
11				30p	
10				24p	
9				30i	
8				60p	
7				D	30p
6		T	24p		
5		V	4:3	640×480	30i
4					60p
3					30p
2	24p				
1				30i	

Video / Audio Switcher, Scaling and Enhancing

PHD-VRX is also a Media Center Box, which acts like video/audio switcher. PHD-VRX can accept many different individual A/V inputs including tuner 1, tuner 2, component (Y-Pb-Pr), RGB, HDMI, composite and USB inputs for playing video, photo and music files. With pressing **INPUT** button on remote control, PHD-VRX can quickly switch to any one input as desired.

PHD-VRX can scale all video resolutions up to 1080p from HDMI output. It equips superior color management system provides a great viewing experience using edge and color enhancements.

Video output

PHD-VRX is able to receive broadcasts in any of the resolutions mentioned above. It can also display programs on TVs capable of displaying any of those resolutions.

To set up your PHD-VRX to handle the combinations of incoming video formats and TV display capabilities, you simply press **V.MODE** button on remote control to set to match the highest resolution your TV is capable of displaying. (If you're not sure about your TV's resolution, see your TV's manual for this specification.)

PHD-VRX will then do the appropriate conversion from input signal format to display format.

Video output formats

Output Connection	Available Formats
Composite VIDEO	480i
HDMI	1080p/720p

Aspect ratio

In addition to resolution and interlacing, HDTV is also defined by the aspect ratio of its broadcasts.

Aspect ratio means the shape of the screen as defined by the ratio of the screen's width to its height. For analog TV and SDTV, the aspect ratio is 4 units wide by 3 units high (usually written 4:3).

This is familiar shape of conventional TVs---- slightly wider than they are tall.

For HDTV broadcasts, the aspect ratio is 16:9 (nearly twice as wide as it is tall).

This is, not coincidentally, more like the shape of movies shown in theaters.

This makes HDTV an ideal format for broadcasting and viewing movies on a TV.

But what happens if you are watching a nearly square-shaped 4:3 broadcast on a rectangular 16:9 TV. The PHD-VRX, Full HD 1080p Dual Tuner Digital HDTV Recorder, Receiver and Media Center Box, allows you to choose from a variety of screen formats to help you dealing with those scenarios.











- PHD-VRX is providing several options to change to different screen formats as: Normal, Full Screen, Panoramic, Zoom1, Zoom2, 4:3 and Direct options.
- PHD-VRX is also providing custom aspect ratio adjustments to ease video over-scan issues on different TV sizes. User needs to bring up main **MENU** → Settings → Scale Window to fine adjust screen size.

Screen format examples

To deal with the mismatches that can occur between the shapes of TVs and the aspect ratios of program broadcasts, the Digital HDTV Tuner provides you with a set of screen format controls.

These controls allows you to pick a format to use for both 4:3 TVs showing 16:9 programs, and for 16:9 TVs showing 4:3 programs.

Here is an explanation of the options.

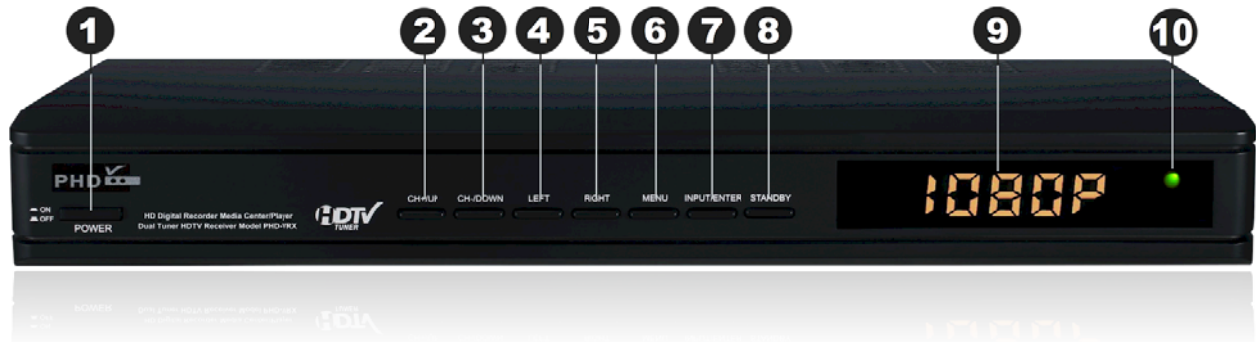
	4:3	16:9
Signal		
	16:9 TVs showing	4:3 TVs showing
Normal		
Full		
Zoom		

Unpacking

Make sure you have received all these items listed below with the PHD-VRX, Full HD 1080p Dual Tuner Digital HDTV Recorder, Receiver and Media Center Box.



Front Panel



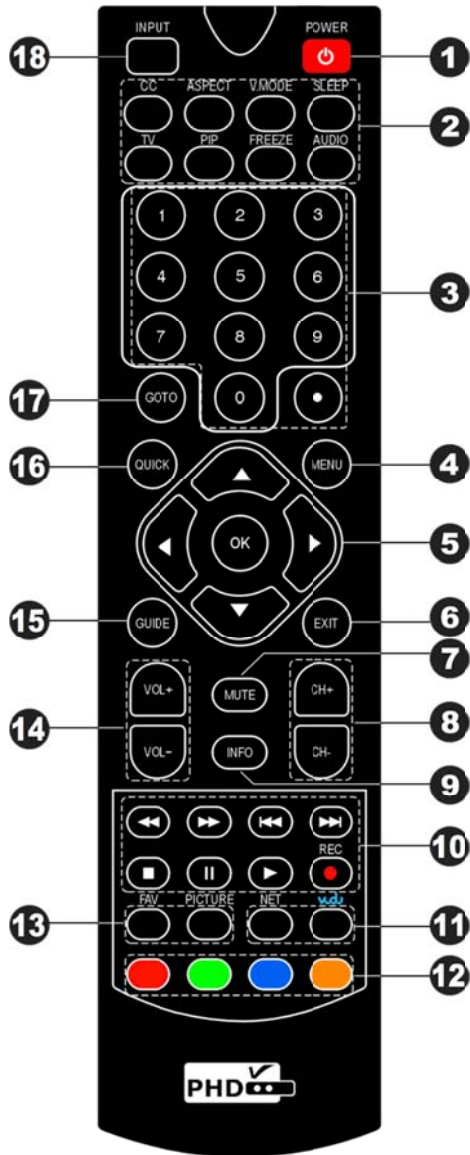
1 POWER	Switch unit ON and OFF.
2 CH+/UP	<ul style="list-style-type: none"> • Move TV channel number up, or • Move the on-screen highlight up.
3 CH-/DOWN	<ul style="list-style-type: none"> • Move TV channel number down, or • Move the on-screen highlight down.
4 LEFT/VOL-	<ul style="list-style-type: none"> • Move the on-screen highlight to left, or • Reduce audio volume.
5 RIGHT/VOL+	<ul style="list-style-type: none"> • Move the on-screen highlight to right, or • Increase audio volume.
6 MENU	<ul style="list-style-type: none"> • Display On-screen (OSD) Main Menu.
7 INPUT/ENTER	<ul style="list-style-type: none"> • Bring up INPUT menu to select input source, or • Select the item highlighted on OSD menus.
8 STANDBY	Switch unit in Standby or Operation mode.
9 6-Digit LED	<ul style="list-style-type: none"> • In TV Mode, shows current channel number. • In other INPUTs or Standby mode, shows current clock time.
10 Status LED	<ul style="list-style-type: none"> • Displays ● during normal operation mode. • Displays ● during standby mode. • Displays ● when is in Recording or Timeshifting mode.









Rear Panel




1 Two Tuners (RF1, RF2)	<ul style="list-style-type: none"> RF1 (Tuner 1), an ATSC/QAM/NTSC tuner to receive digital & analog channels. RF2 (Tuner 2), an ATSC/QAM tuner to receive only digital channels. <p><i>Note: PHD-VRX can only record or timeshift on digital channels only, not on analog channels.</i></p>
2 Two USB ports (USB1, USB2)	<p>Use any of USB ports to connect external USB storage devices or optional USB WiFi adapters.</p> <ul style="list-style-type: none"> To record, connecting external USB Hard Drive (HDD) or USB Flash stick with either ext2 or NTFS format. PHD-VRX will record TV shows on the first USB device plugged in (assigned as “usba”). To Playback, connecting any USB storage devices with either ext2, NTFS or FAT32 format. PHD-VRX will act as media player to play video, music and picture files. <p><i>Note: PHD-VRX has built-in USB utility menu to test USB speed and partition USB to ext2 format.</i></p>
3 VGA/ Audio in	Accept video (VGA/RGB) and audio inputs from PC VGA port.
4 HDMI input	Accept HDMI input from external devices like Blu-ray player and etc.
5 Composite Video and Audio input	Accept composite video (480i) and stereo audio inputs from external devices.
6 Component video input	Accept component (Y-Pb-Pr) video (720p/1080i) input from external devices.
7 10/100 Ethernet Port	Connecting to external network. <ul style="list-style-type: none"> Connect NTP (Network Time Protocol) server to synchronize the time for accuracy. On-line video streaming capable.
8 Composite Video and Audio output	Composite video (480i) and audio output to analog TV or monitor. This video is outputting simultaneously with HDMI output.
9 HDMI output	HDMI output (720p / 1080p). It is outputting simultaneously with composite video output.
10 Optical Digital Audio Output	Connecting to digital (optical) audio equipment. Supporting 5.1 surround sound.

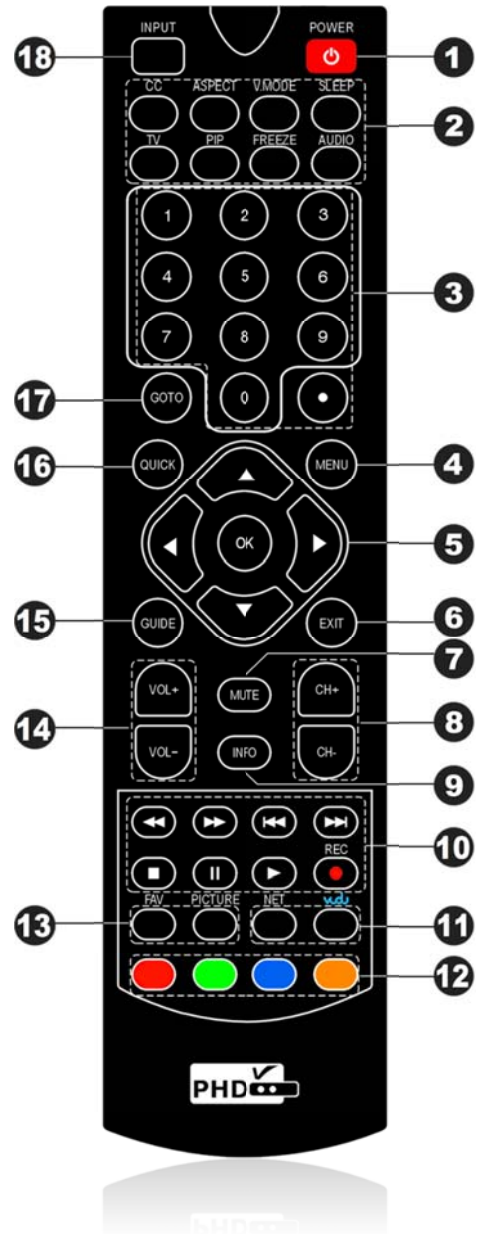
Remote Control



1 POWER	Switch unit ON or standby mode.
2 FUNCTION KEYS	<ul style="list-style-type: none"> • CC: turn closed caption on or off. • ASPECT: change screen size. • V.MODE: change video resolution (720p/1080p). • SLEEP: select preset timer for auto shut off. • TV: directly jump to Tuner 1 or Tuner 2 when unit is in other input. • PIP: (future option) • FREEZE: Pause video • AUDIO: digital/analog audio sound mode change.
3 NUMBERS & DOT	Press to enter numbers or change channel numbers.
4 MENU	Display On-Screen (OSD) main menu
5 NAVIGATION	Directions (Up, Down, Right, Left) and OK keys to navigate menu.
6 EXIT	Exit the current menu or operation.
7 MUTE	Temporarily turn off sound.
8 CH+/CH-	Change channel up and down.
9 INFO	Show current input status. In TV Mode, show channel status and quick program guide.
10 ACTIONS	To play video/audio programs for recorded TV show, timeshift, media player, video streaming. <ul style="list-style-type: none">  RWD: Rewind program quickly.  FF: Fast Forward program quickly.  PREVIOUS: Move to previous or slow RWD.  NEXT: Move to next, or slow FF in timeshift.  STOP: Stop playback.  PAUSE: Pause current program.  PLAY: Play or resume a paused program  REC: Start recording program.

Remote Control

11 ON-LINE KEYS	On-line video streaming access (future option).
12 SHORTCUT KEYS	4-color keys correspond to different features and quick access. In TV mode, press  to enable timeshift function, which can pause live TV program as well as instantly rewind, fast forward, slow motion on live TV program.
13 FUNCTION KEYS	<ul style="list-style-type: none"> • FAV: Add or delete favorite channels • PICTURE: Select preset video picture settings.
14 VOL+ /VOL-	Increase or reduce audio volume.
15 GUIDE	Show full screen Electronics Program Guide with schedule program recording capability.
16 QUICK	Display quick access menu. It comes with different quick access features during different operation modes. <i>Note: Quick menu is very useful and handy without bringing up main menu and steps for accessing a specific function.</i>
17 GOTO (also RETURN key)	This key will bring the current menu or function to the previous state (acts as RETURN key). In TV mode, this key will jump back to the previous channel tuned to.
18 INPUT	Press this key to bring up input selection. PHD-VRX has following inputs to switch from: (1) Tuner 1, (2) Tuner 2, (3) CVBS – composite video, (4) Component – YPbPr, (5) HDMI, (6) VGA –PC input.



Installing Batteries: before the remote control can be used, two batteries (size AAA) need to be installed. First, open battery cover from the back of the remote. Install 2x fresh batteries in the battery compartment. Next, snap the cover back onto the remote control.

Remote Control Operation: point the remote control directly at the unit front panel with no solid objects blocked in between, and then presses the desired buttons.

■ Connections

This paragraph tells you connecting the PHD-VRX Dual Tuner Digital HDTV Recorder, Receiver and other inputs to TV, Display, and home theater.

Connecting Antenna/Cable signal source

1. Connect an outdoor or indoor antenna directly to either Tuner 1 or Tuner 2 jack with a coaxial cable. This is to receive over-the-air digital TV signals from TV broadcasters.
2. Connect the cable signal source using a coaxial RF cable to either Tuner 1 or Tuner 2 jack.



Connecting external USB storage devices

1. To record TV shows, plug USB 2.0 support Hard Disk Drive (HDD) or Flash stick with the size from 2GB up to 2TB. PHD-VRX will record TV shows on the first USB device plugged in no matter which USB port is.
2. To playback TV, Movie, Music and Photo files, connect USB device to any one of USB ports.
3. To upload firmware, Plug USB flash stick in and follow the firmware upgrade guideline.



Connecting VGA/PC Input

PHD-VRX has one VGA input port, which can be connected to PC or external devices with RGB, H/V sync signals and audio.



Connecting HDMI Input

PHD-VRX has one HDMI input port. It can be connected to different HDMI devices such like Blu-Ray players, DVD players, PS3, HD cable or satellite boxes.



Connecting Component (YPbPr) Input

PHD-VRX has one Component (Y-Pb-Pr) video input and audio (R/L) input, which can be connected to external HD devices with YPbPr output.



Connecting Composite Video Input

PHD-VRX has one Composite video (CVBS) input port with associated audio (R/L) input, which can be connected to any 480i/ Analog video external devices such like VCR or DVD players.



Connecting Network

1. Connect PHD-VRX Ethernet port to wired network from DSL, Cable modem or home network router. The network connection will prompt the unit in sync with NTP (Network Time Protocol) for precise timing reference as well as on-line video streaming and home network video server connection.



2. Connect to wireless network by using USB WiFi adapter is achievable (future optional).

Connecting HDMI, Composite Video and Audio Outputs

1. For high quality video viewing, connect HDMI output to your HD TVs or HD Projectors. PHD-VRX has capacity to scale and enhance all input video/audio signals up to 1080p resolution. Output resolution can be adjusted among 720p/1080p by using remote key **V.MODE**.
2. PHD-VRX composite video and audio outputs are connecting to conventional analog TV for viewing and monitoring. There is no on-screen menu available in this output and composite video/audio will be simultaneously outputting with HDMI.
3. To receive highest quality audio sound, connect optical digital audio output port to your Home Theater A/V receiver.



■ Power Up and Setup

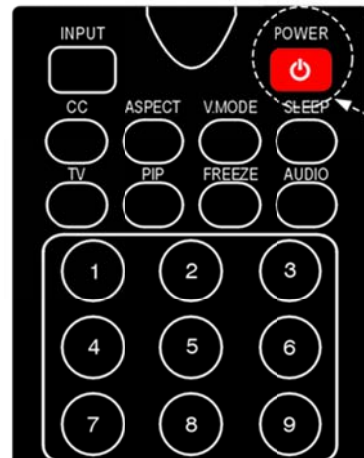
After connecting PHD-VRX with proper input and output sources, you will need to power up the unit and run initial setup procedures including an automatic channel scan. This initial setup is required only during the first time using the unit, or after activating the “Reset All” feature to set the unit back to its initial stage.

To start:

1. Plug the Power cord from the back of the unit into the AC outlet.
2. Press the Power button located on the left side of the unit. Wait until the red light and clock time (normally showing 12:00 AM) come out from the unit display panel on the right side.
3. Then, press either remote **POWER** key or the front panel Standby button to turn on the unit.
4. Boot up time usually takes about 30 seconds. During boot up, the front display panel shows “BOOT”. There will be NO video on the TV screen during boot up time. After boot up is complete, the front panel will show “no ch” and the green light will be on.
5. At this point, your TV screen should display the first initial set up menu from PHD-VRX HDMI output port. Then, follow several on-screen initial setups to complete the procedures:



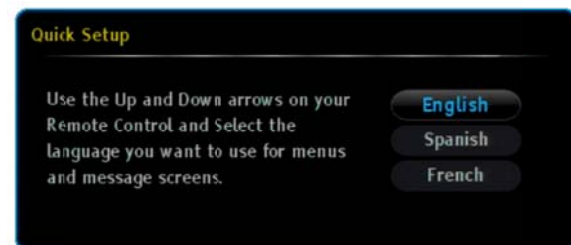
Power Button



Power key to turn unit in Standby (off) or Operation (on) mode.

- **Quick Set up:**

Press remote control ▲/▼, then **OK** to select the proper language you want to use for menus and message screens.



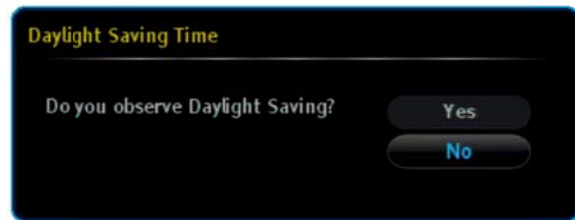
- **Time Zone:**

Press remote control ▲/▼ and then **OK** to select the proper time zone in your area.



- **Daylight Saving Time:**

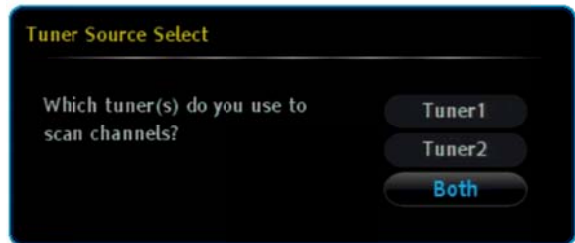
Press remote control ▲/▼ and then **OK** to select yes or no for the daylight saving time option in your area.




- **Tuner Source Select:**

Since PHD-VRX has two built-in tuners, you can connect either over-the-air antenna signals or cable QAM signals with any of the following combinations:

- (1) Tuner 1 (RF1): Antenna (ATSC/NTSC)
Tuner 2 (RF2): None
- (2) Tuner 1 (RF1): Cable (QAM/NTSC)
Tuner 2 (RF2): None
- (3) Tuner 1 (RF1): None
Tuner 2 (RF2): Antenna (ATSC)
- (4) Tuner 1 (RF1): None
Tuner 2 (RF2): Cable (QAM)
- (5) Tuner 1 (RF1): Antenna (ATSC/NTSC)
Tuner 2 (RF2): Antenna (ATSC)
- (6) Tuner 1 (RF1): Antenna (ATSC/NTSC)
Tuner 2 (RF2): Cable (QAM)
- (7) Tuner 1 (RF1): Cable (QAM/NTSC)
Tuner 2 (RF2): Antenna (ATSC)
- (8) Tuner 1 (RF1): Cable (QAM/NTSC)
Tuner 2 (RF2): Cable (QAM)



Select either the “Tuner 1” or “Tuner 2” option to connect only one signal to PHD-VRX. Select the “Both” option to connect both tuners with signals.

 ATSC refers to over-the-air (antenna) digital signal; QAM refers to cable digital signal. NTSC refers to analog signal, which can be either sent from a TV broadcaster or Cable Company.

- **Tuner Medium Select:**

If the single tuner option is chosen, then the Tuner Medium Select screen will prompt you to select either Antenna or Cable as your input RF signal source. Once selected, PHD-VRX will go to the next screen.

If you choose the “Both” tuners option, then the Tuner Medium Select screen will prompt you to select the signal source for each tuner input in detail.

- **Auto Tuning:**

Once the RF signal source(s) has been selected, PHD-VRX is ready for auto scanning. This screen is to confirm the action.

- **Auto Tuning – Tuner1:**

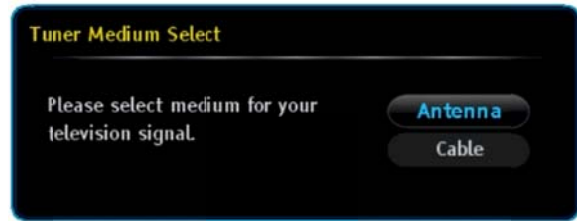
PHD-VRX is starting channel scanning based on Tuner 1 input signal source. The screen will show scanning progress and how many channels have been found.

- **Auto Tuning – Tuner2:**

PHD-VRX is starting channel scanning based on Tuner 2 input signal source. The screen will show scanning progress and how many channels have been found.

- **Auto Tuning – Channel List:**

After completing the channel scan, PHD-VRX will show first tuner channel master list. This includes channel number with sub number (e.g. 2-1), and indicates whether it is a digital channel (DTV) or an analog channel (ATV) as well as the physical RF channel number.



PHD-VRX provides the on-screen Main Menu to access all major features and the Quick Menu to get to certain key features easily. To access the Main Menu, press remote **MENU** key or the front panel MENU button. PHD-VRX will display menu graphics on your TV screen.

■ Main Menu:



The Main Menu consists of seven menu items:



: **Picture**



: **Audio**



: **Channel**



: **Settings**



: **Locks**




: **Video**



: **Record**

To navigate the Main Menu, use remote **▲/▼**, **◀/▶** keys to choose a sub-menu or option. Or press the remote **OK** key to move to the next level.



- During menu navigation, press the remote **MENU** key again or the **EXIT** key any time to exit the menu screen. Or press the remote **GOTO**  key as the return function to go back to the previous menu location.



Picture: The Picture menu option provides the picture color settings and adjustments.

1. Highlight "Picture" option and press **OK** or **▶**.
2. Press **▲/▼** to highlight the item: Picture Settings, Advanced Settings, Auto Aspect, View Mode, or RESET PICTURE.
3. Press **OK** or **▶** to select an option.
4. Press **GOTO** key as the return function or **◀** key to go back to the previous menu location.
5. Press **EXIT** to exit.



Picture Settings

In this option, the user has full control over video **Brightness, Contrast, Saturation, Hue, Sharpness**, or you can select a Preset setting as well as color temperature.

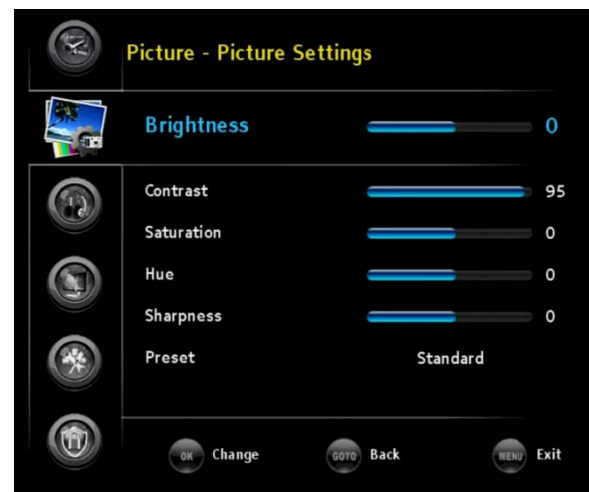
Press **▶** and then **▲/▼** to select each option. Press **OK** to highlight the option and use **◀/▶** to adjust values.

Select "Preset" to choose several preset picture color settings:

- | | |
|-----------------------------------|--------------------------------|
| <input type="checkbox"/> Sports | <input type="checkbox"/> Store |
| <input type="checkbox"/> Standard | <input type="checkbox"/> Game |
| <input type="checkbox"/> Movie1 | <input type="checkbox"/> PC |
| <input type="checkbox"/> Movie2 | |



- You can also press the **PICTURE** key on the remote control to directly access color preset values and select the desired mode.
- During normal video viewing, you can press remote **QUICK** key to promptly select picture color settings from the Quick Menu.



Advanced Settings

Under Advanced Settings, you can control **Dynamic Contrast** value by highlighting this option and using ◀/▶ to adjust values.

Auto Aspect

There are several video aspect ratio adjustments in order to change picture size using the remote **ASPECT** key. PHD-VRX also provides additional intelligent ways to control aspect ratio with the Auto Aspect feature. The default value is ON.

If “ON” is selected, every time you change the channel, PHD-VRX will detect video resolution source and automatically determine the proper aspect setting. For example, if tuned to a HD channel, PHD-VRX will set it to “Normal” video aspect. If tuned to a SD (480p) channel, PHD-VRX will set it to “4:3” automatically.

If “OFF” is selected, the Aspect setting still keeps the same as the previous setting no matter which channel it is tuned to. User can change it manually by pressing the **ASPECT** remote key to select desired mode if needed.

View Mode

You can change the video aspect from this option. There are Normal, Full Screen, Panoramic, Zoom1, Zoom2, 4:3, and Direct modes to choose from. This is done the same way as using **ASPECT** remote key.

RESET PICTURE

PHD-VRX can individually set picture and audio settings based on different inputs. Select this option will reset all the picture settings to the original default values.





Audio: The Audio menu option provides all the audio related settings.

1. Highlight “Audio” option and press **OK** or **▶**.
2. Press **▲/▼** to highlight the item: Treble & Bass, Equalizer, Optical Out (SPDIF), Digital Preference, Balance, RESET AUDIO.
3. Press **OK** or **▶** to select an option.
4. Press **GOTO** key as the return function or **◀** key to go back to the previous menu location.
5. Press **EXIT** to exit.



Treble & Bass

In this option, the user can control audio treble and bass values.

Press **▶** and then **▲/▼** to select each option. Press **OK** to highlight the option and use **◀/▶** to adjust values.



Equalizer

PHD-VRX provides several audio equalizer preset values such as Flat, Rock, Pop, Classical, Jazz and Off. The default value is set to Jazz.

Optical Out (SPDIF)

You can output PHD-VRX digital audio to a home theater or A/V Receiver devices. Using this feature, you can turn on or off the PHD-VRX optical output port and set the audio from optical output to either PCM or AC3 digital audio data.

Digital Preference

In the digital channel audio output, if a different speaking language is available, the user can select either one of the options. Default is English.

- English
- Spanish
- French

Balance

You can change audio balance by highlighting this option and using ◀▶ to adjust values.

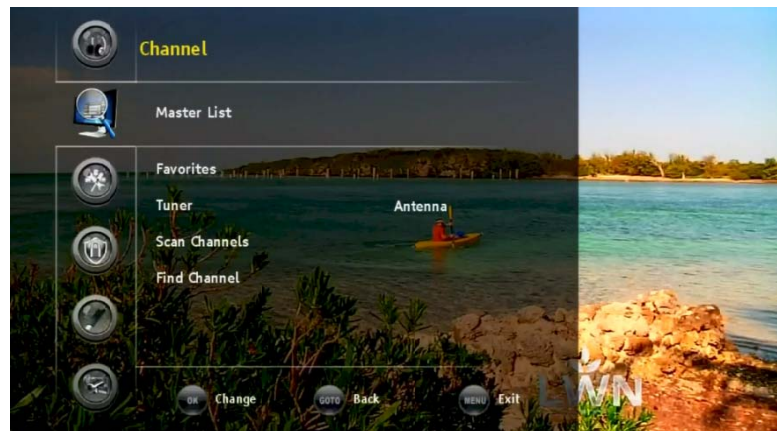
RESET AUDIO

PHD-VRX can individually set picture and audio settings based on different inputs. Select this option will reset all the picture settings to the original default values.




Channel: The Channel menu provides channel list, channel scanning and all other channel/tuner related features.

1. Highlight “Channel” option and press **OK** or ▶.
2. Press ▲/▼ to highlight the item: Master List, Favorites, Tuner, Scan Channels and Find Channel.
3. Press **OK** or ▶ to select an option.
4. Press **GOTO** key as the return function or ◀ key to go back to the previous menu location.
5. Press **EXIT** to exit.



Master List

If you select this option, PHD-VRX will show channel master list from the current tuner. Under the master list table, all available channels are displayed, as well as the channel type (either digital channel “DTV”, or analog channel “ATV”), the channel label (for an example, KABC-DT) and a check box. By default, all the available channels are check-marked in the check box. If you want to skip this channel so PHD-VRX won’t display it when you press remote **CH+** and **CH-**, then you can press the  button on

the remote to uncheck (skip it). Once you use ▲/▼ to move and highlight to different channel number, PHD-VRX will also tune to that channel while the master list is still displaying on TV screen.



Favorites

Select this option to access the “Favorites Browser” screen. This is done the same way as pressing the **FAV** remote key to instantly bring up the “Favorites

Browser”. Inside of the favorites screen, you can press the **+** key to add the current channel as one of your favorites or press the **-** key to remove the current channel from the favorites list. Press **◀/▶** keys to browse through all the favorite channels and press OK key to tune to the highlighted channel. Use ▲/▼ to jump to different lists. PHD-VRX provides the following lists from the “Favorites Browser”:

- Favorites List 1
- Favorites List 2
- Favorites List 3
- History List
- Channels List
- Input List



Tuner

In this option, you can select the current tuner RF input as either antenna or cable signal.



- PHD-VRX has built-in dual channel scanning capability for both tuners. Once it scans both Antenna and Cables channels, PHD-VRX can save both channel information into internal memory. Upon selection of a specific RF input, PHD-VRX can change all channel lists from memory without re-scanning channels.

Scan Channels

After selecting a type of RF Input (antenna or cable) from the current tuner, press the **OK** key to start scanning channels.

Auto tuning screen will pop out. Confirm “Start Scan” to continue for the channel scanning.





- This step may take 10-15 minutes or more.
- All the current stored channels will be deleted or replaced with new channel information after doing “Start Scan”.



Find Channel

Using this option, you can find new channels and add them to the channel list on a particular frequency, which refers to physical channels, not the virtual channels.

For an example, enter the physical channel number 31, and it may find three virtual channels like 5-1, 5-2 and 5-3 and add them to the list.



Settings: The Settings menu provides Input Labels, Scale Window, Closed Captions, Date & Time, Menu Language, System Info, Networking, Home Network and Reset All features.

1. Highlight “Settings” option and press **OK** or **▶**.
2. Press **▲/▼** to highlight the item.
3. Press **OK** or **▶** to select an option.
4. Press **GOTO** key as the return function or **◀** key to go back to the previous menu location.
5. Press **EXIT** to exit.



Input Labels

PHD-VRX has six (6) A/V inputs you can choose from. These inputs are Tuner 1, Tuner 2, CVBS, Component, HDMI and VGA as the default input name.

User can further define the name on each input by assigning a different label or creating one. Select this option and the Input Labels screen will pop out. Use **◀/▶** or **▲/▼** keys to select pre-set label names or press the **●** key to enter your own label name.

Once complete, press the **INPUT** remote key to see if the input label has been changed or not.



Scale Window

Select this option to fine-tune video screen size in order to ease video over-scan issues if your TV screen crops off a certain video portion and can't use other means to adjust back. This option is very useful. Also, use this option if the PC HDMI/VGA (RGB) input connected from your PC to PHD-VRX and the output size are not matched on the TV screen.

Once selected, the Scale Window screen will come out. Use **◀/▶** or **▲/▼** and **OK** keys to choose individual adjustments (H- Position, V-Position, H-Size and V-Size, 4 different sizes and positions) or reset back to default value.

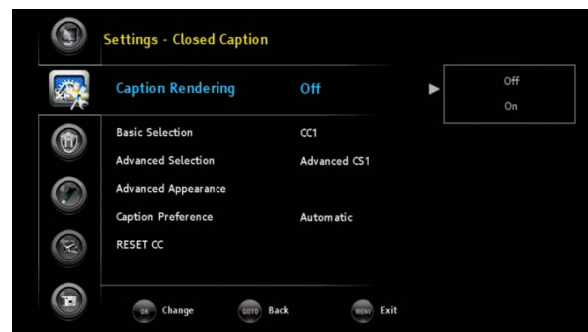


- You can also bring up the Quick Menu by pressing the **QUICK** key to promptly access the Scale Window feature from there.



Closed Captions

Closed Caption feature is to display On Screen Text Messages while watching TV. This feature is available in the broadcast. PHD-VRX is equipped with an internal Closed Caption decoder engine. It allows you to view conversations, narration and sound effects as subtitles on your TV.



Digital Closed Caption service is a new caption service available only on digital TV programs (also at the discretion of the service provider). It is a more flexible system than the original Closed Caption system, because it allows a variety of caption sizes and font styles.

□ **Caption Rendering**

Use this option to turn the Closed Caption (CC) feature on or off.



- You can also directly turn on or off Closed Caption by pressing **CC** key from remote control.

□ **Basic Selection**

You can select any one of these options when it is available. The default is set to CC1.

CC1: The Primary Synchronous Caption Service. These are captions in the primary language that must be in sync with the sound, preferably matched to a specific frame.

CC2: The Special Non-Synchronous Use Captions. This channel carries data that is intended to augment information carried in the program.

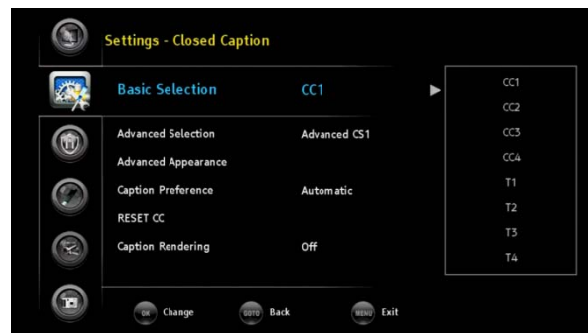
CC3: Secondary Synchronous Caption Service. Alternate program-related caption data, typically second language captions.

CC4: Special Non-Synchronous Use Captions. Similar to CC2.

Text1: First Text Service. This may be various non-program related data.

Text2: Second Text Service. Additional data, usually not program related.

Text3/Text4: Third Text Service. These data channels should be used only if Text1 and Text2 are not sufficient.



□ **Advanced Selection**

You can select an available advanced caption option in DTV Caption.

This item includes

- Advanced CS1



- Advanced CS2
- Advanced CS3
- Advanced CS4
- Advanced CS5
- Advanced CS6

□ **Advanced Appearance**

This will adjust advanced appearance settings such as font style, text size, etc.

It can be used on digital channels.



Font	
Style	Mono without Serif/ Prop. without Serif/ Mono with Serif/ Prop. with Serif/ Cursive/ Casual/ Small Capitals/ Auto

Text	
------	--

Size Small/ Standard Size/ Large/ Auto

Color Auto/ Black/ White/ Green/ Blue/ Red/ Cyan/ Yellow/ Magenta

Opacity Solid/ Flashing/Translucent/ Transparent/ Auto

Background	
------------	--

Color Auto/ Black/ White/ Green/ Blue/ Red/ Cyan/ Yellow/ Magenta

Opacity Solid/ Flashing/Translucent/ Transparent/ Auto

Edge	
------	--

Style None/ Raised /Depressed/ Uniform/ Left Drop Shadow / Right Drop Shadow / Auto

Color Auto/ Black/ White/ Green/ Blue/ Red/ Cyan/ Yellow/ Magenta

□ **Caption Preference**

Choose whether to use the “basic”, “advanced” or “automatic” closed caption setting for digital TV channels. (Advanced closed caption is the priority).



- When an analog video is displayed, you can choose CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, TEXT4 or OFF.

- When a Digital signal is received, you can choose from Adv.CS1, Adv.CS2, Adv.CS3, Adv.CS4, Adv.CS5, Adv.CS6, CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, TEXT4, or OFF.
- Depending on the broadcast signal, some Basic Captions will function with a Digital broadcast signal.

□ **RESET CC**

Select this option to reset all the closed caption settings to the original default mode.

Date & Time

Use this feature to adjust time zone setting, etc.

□ **Time Zone**

Press remote control ▲/▼ and then **OK** keys to select proper time zone in your area.

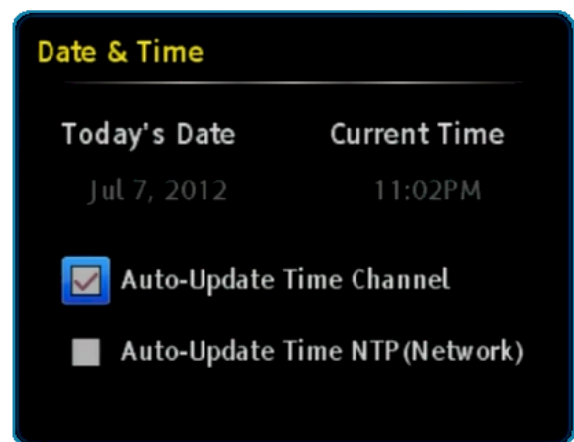
□ **Daylight Saving Time**

Press remote control ▲/▼ and then **OK** keys to select yes or no for daylight saving time options in your area.

□ **Manual Time Setting**

You have three options to adjust date and time.

- By default, the “Auto-Update Time Channel” option is checked. PHD-VRX will try to decode and use date/time information sent from TV channels. Once detected, PHD-VRX will update to its system date and time automatically.
- You can also check “Auto-Update Time NTP (Network)” option. NTP (Network Time Protocol) provides more precise date/time reference packets sent via network. So, if you connect PHD-VRX Ethernet port through network to the internet, you can select this option to get a precise date/time.



- It is useful for doing schedule recording. Since it is precise timing, it will record a TV program on time.
- If both “Auto-Update Time Channel” and “Auto-Update Time NTP (Network)” are unchecked, then the user will need to manually set “Today’s Date” and “Current Time” with remote control digits and navigation keys.

Menu Language

Press ▲/▼, and **OK** key to select the language of the menu from English, French and Spanish. The default selection is English.

System Info

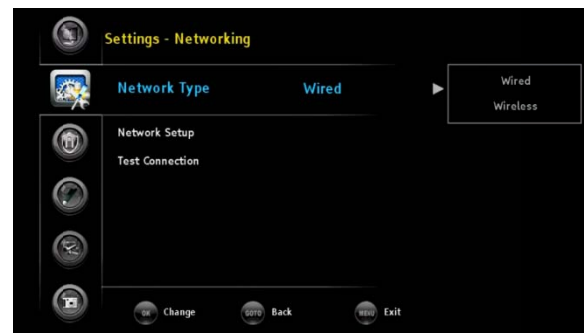
Displays the important system information. The information includes:

- ❑ Miscellaneous Info including Firmware version, System time and TV micro version
- ❑ Source/Channel Info
- ❑ Audio/Video Stream Info
- ❑ Video Output Info
- ❑ Network
- ❑ USB Info



Networking

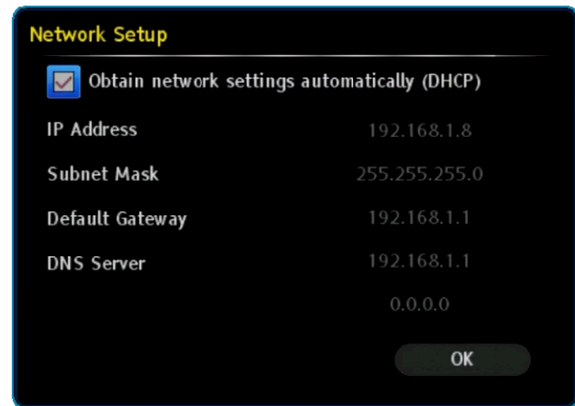
PHD-VRX has a built-in Ethernet port, which can connect to a home network or the internet. You can select a proper IP address during this option. When setting up the networking of PHD-VRX, please make sure your network cable is plugged in and your internet and network hub/modem are working properly in your place.



- ❑ **Network Type**
Current PHD-VRX will support wired network. Wireless network option requires a WiFi USB adapter plugged into the USB port and currently PHD-VRX does not support it.

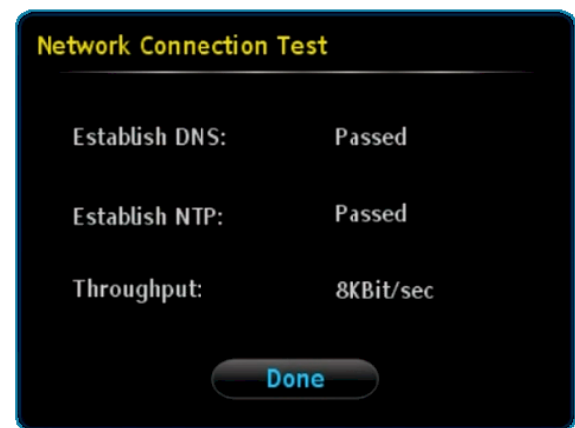
❑ **Network Setup**

Select this option and the Network Setup screen will pop out. Default network settings like IP address, subnet mask, gateway IP and DNS server are automatically obtained by checking the DHCP option. You can also uncheck DHCP and manually enter your IP address. Once complete, press the **OK** key to go back to the previous screen.



❑ **Test Connection**

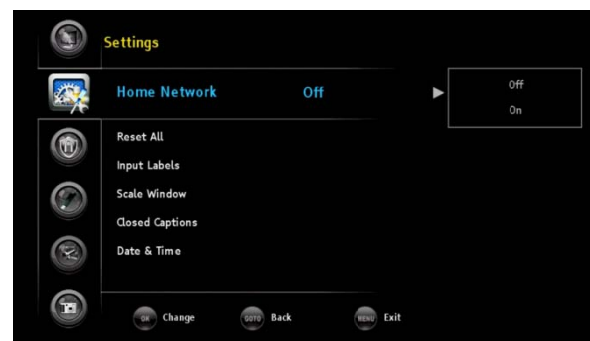
Select this option and the Network Connection Test screen will pop out. PHD-VRX will be immediately testing the current network connection. It will test DNS, NTP and network throughput speed.



- By default, “Auto-Update Time NTP (Network)” is not set from Date/Time setting. Therefore, during network testing, “Establish NTP” will show Failed.

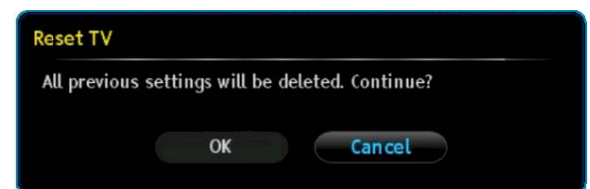
Home Network

PHD-VRX has the ability to connect to your home network media server, so PHD-VRX can play video, music, or display pictures not only from USB storage devices but also via network. If your PC is running a media server with on-line connection, then PHD-VRX can also play on-line media files through a media server program (for an example, TVersity Media Server). By default, this option is turned off. If your network connection is ready and media server is running, you can turn on this function and play media files using the “Media Player” menu.



Reset All

The user can decide to reset all settings back to factory settings. This includes the channel map, all



Program Info, Favorite channel lists, etc. Once you select this option, the Reset TV screen will pop out and ask you to confirm reset all. Once confirmed, select OK to proceed. Then within a few seconds the TV screen will be blank and PHD-VRX front panel will show a clock and red light, meaning that the unit has been turned off to standby mode. You can then turn the unit on and the TV screen should display the initial Setup procedures, just as if it was turned on first time out-of-the-box.



Locks: In the Locks menu you can use Ratings locks (V-CHIP), Channel locks and Change PIN after setting your password.

When you first enter this menu, set up your password.

1. Highlight the “Locks” option and press **OK** or **▶**.
2. Enter 4 digits for New PIN number by using (0-9) remote keys.
3. Enter the same PIN (4 digits) again and access the Locks menu.



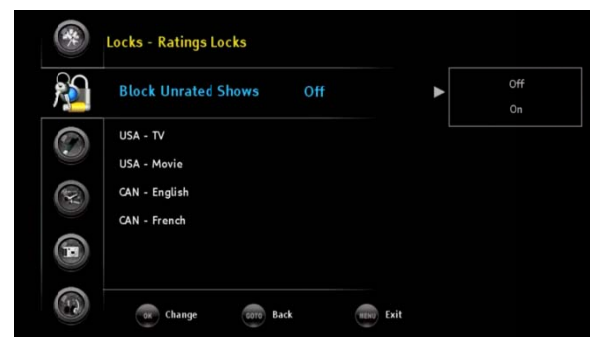
- On screen, ★ appears instead of the number.
- As a precautionary measure, make a note of your password (PIN) and keep it in a familiar place.

The new Locks menu includes Ratings Locks, Channel Locks, Front Panel Lock, Change PIN and REST LOCKS features.

Ratings Locks

Enter this option to choose different rating locks.

- **Block Unrated Shows**
You can block all programs and movies that are broadcasted without a rating. By default, this is off.



Unrated Shows

Off Blocks all programs and movies that are broadcasted without a rating.

On Allows all programs and movies that are broadcasted without a rating.

□ **USA - TV**

The TV Parental Guidelines work in conjunction with the V-CHIP to help parents screen out inappropriate television shows from their children.

*Restriction Categories based on six age-based categories.

Hierarchy of Age-based Ratings

TV-Y All Children

TV-Y7 7 years old and above

TV-G General audience

TV-PG Parental guidance

TV-14 14 years old and above

TV-MA Mature audience only



- If you block TV-Y, TV-Y7 will automatically be blocked. Similarly, if you block TV-G, TV-PG, TV-14 and TV-MA will be blocked.
- If you unblock TV-Y7, TV-Y will automatically be unblocked. If you unblock TV-MA, TV-G, TV-PG and TV-14 will be unblocked.

Each Restriction Category has additional options.

sub-ratings

ALL All Restrictions

FV Fantasy Violence

D Sexually Suggestive Dialogue

L Adult Language

S Sexual Situations

V Violence

V-Chip will automatically block certain sub-categories that are more restrictive. For example, if you block the “L” sub-rating in TV-PG, then the “L” sub ratings in TV-14 and TV-MA will also automatically be blocked.

USA-TV, TV Parental Guidelines

	ALL	FV	D	L	S	V
TV-Y	<input checked="" type="checkbox"/>					
TV-Y7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
TV-G	<input checked="" type="checkbox"/>					
TV-PG	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TV-14	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TV-MA	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

: Content rating can be set

□ **USA - Movie**

Movie ratings are used for original movies rated by the Motion Picture Association of America (MPAA) as watched on cable TV and not edited for television. The V-CHIP can also be set to block MPAA-rated movies.

* Restriction Categories based on six age-based categories.

Voluntary movie rating system (MPAA)	
G	General Audience (No Restrictions).
PG	Parental Guidance Suggested.
PG-13	Parental Guidance for children under 13.
R	Restricted. Children under 17 should be accompanied by an adult.
NC-17	17 years old and above.
X	Adults Only



- If you block G, higher categories will automatically be blocked.
- Similarly, if you unblock X, lower categories will automatically be unblocked.

□ **CAN - English**

Restriction Categories based on five age-based categories.

Hierarchy of Age-based Ratings

G	General programming.
8 and+	Not recommended for young children.
13 and+	Not recommended for ages under 13.
16 and+	Not recommended for ages under 16.
18 and+	Programming restricted to adults.

□ **CAN - English**

Restriction Categories based on six age-based categories.

Hierarchy of Age-based Ratings

C	All Children.
C8+	Children 8 years and above.
G	General programming.
PG	Parental guidance.
14+	14 years old and above.
18+	Adult programming.

Channel Locks

You can lock specific channels with this feature.

Select this option and the Channel Locks screen will pop out. Use ▲/▼, and **OK** keys to lock a specific channel. The red lock symbol shown on the right side indicates that the channel has been blocked.

Front Panel Lock

You can lock the front panel keys using this option.



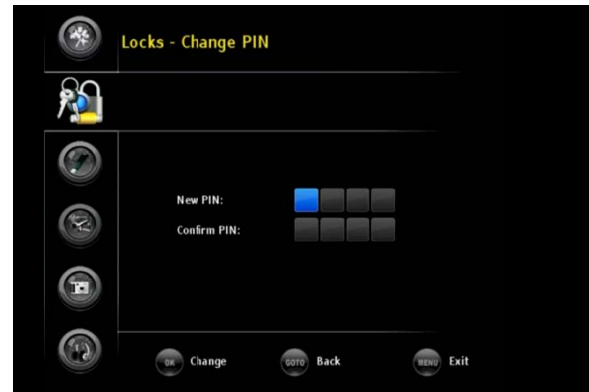
The default is Off. When On is selected, the user can't control the PHD-VRX unit with any front panel keys. Once a front panel key is pressed, PHD-VRX will show a "Panel Lock" message on the screen. To disable the front panel lock, either select OFF again or completely restart the power by pressing the Power button located on the left side of the unit.

Change PIN

You can change the lock PIN by selecting this option.

1. Enter New PIN.
2. Confirm New PIN.

The new PIN has been updated to the system.



RESET LOCKS

To reset all the rating settings back to the default mode.



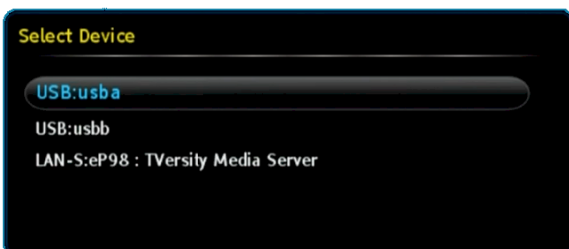
Media Player: The Media Player menu provides full-feature functions of playing video and music files as well as displaying pictures.

1. Highlight the "Media Player" option and press **OK** or **▶**.
2. Press **▲/▼** to highlight the item.
3. Press **OK** or **▶** to select an option.
4. Press **GOTO** key as the return function or **◀** key to go back to the previous menu location.
5. Press **EXIT** to exit the menu.




Video

The PHD-VRX will play video files from the external USB HDD or through a home network based on the following conditions:



- (1) If two USB devices are connected or the home network function is enabled, PHD-VRX will show the “Select Device” screen and ask the user to pick the right device to play.
- (2) If only one USB device is connected, PHD-VRX will promptly display the Video main menu. Use the remote control navigation keys to select the desired video file to play.
- (3) If no devices are attached to any USB ports, PHD-VRX will show the message “No devices are connected” and prompt the user to re-connect a USB device or enable a home network.

Video main menu contains:

- **File List Screen** appears on the left side. It shows all the video files recognized by PHD-VRX. Use ▲/▼ or **CH+** (page up) or **CH-** (page down) to quickly search or highlight the file. You can also use the  remote key to delete some files to save space.
- **Preview Screen** appears on the upper right portion. It shows the video file you currently highlighted in a smaller preview window.
- **Video Time Line Screen** appears on the lower right portion. This screen gives you the duration of the video selected, video file size, and status for the action keys.








Press **OK** key for the highlighted file.

The full size video will be displayed.

During preview screen or full size

video screen playback, you can use the remote control action keys to adjust the speed or stop the video at any time. These action control keys are:

-  **PLAY:** Play or resume a paused video.
-  **PAUSE:** Pause current video.
-  **STOP:** Stop playback.
-  **FORWARD SKIP:** Use for commercial skipping or quick video jumping. Press this key once to generate a 20 second forward skip. Press and hold this key to create steady 20 second increments of continuous video forwarding.
-  **BACKWARD SKIP:** Use for commercial skipping or quick video jumping. Press this key once to generate a 20 second backward skip. Press and hold this key to create continuous 20 second decrements of video rewinding.

- ⏮ **RWD:** Rewind video quickly. Press this key multiple times to create 2x, 4x, 8x, 16x, and 32x different rewind speeds.
- ⏭ **FF:** Fast Forward video quickly. Press this key multiple times to create 2x, 4x, 8x, 16x, and 32x different fast forward speeds.



- When using the Media Player function to play back video, music, or photo files, the PHD-VRX unit front panel LED display will show “PLAY” to indicate that the unit is in playback mode.
- Continuously pressing and holding the ⏭ or ⏮ keys will create smooth, quick forward or backward video search or commercial skipping.
- In the Video main menu, the user can still access Quick Menu by pressing the “QUICK” key.

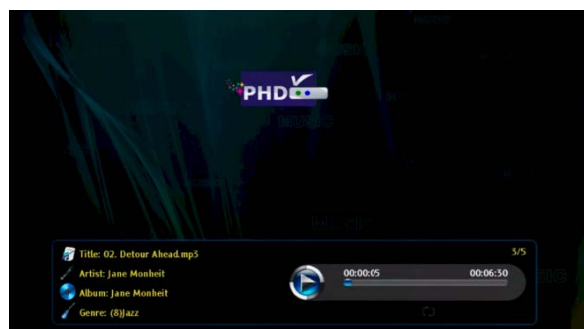
Music

Select this option and PHD-VRX will play music files from the external USB HDD or through home network connections.

Music main menu contains:

- **File List Screen** on the upper left portion. It lists all the available music files in the current directory. Press ▲/▼ to highlight the desired music file.
 - **Album Picture Screen** on the lower left portion. This screen will show the picture contained inside of the MP3 tags. Normally, it shows the album cover. If a cover is not available, then PHD-VRX will show a default picture.
 - **Music Details Screen** on the upper right portion contains Title, Artist, Album name, Genre and other available information.
 - **Music Time Line Screen** on the lower right portion displays the duration of the music and shows status for the action keys.
- ▶ **PLAY:** Play or resume paused music.
 - ⏸ **PAUSE:** Pause playing music.
 - **STOP:** Stop playback.

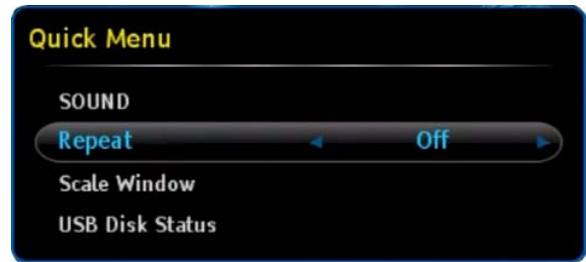
Press **OK** key for the highlighted music file. The Music Player full screen will be displayed.



You can press **QUICK** remote key anytime when music is playing. The Quick access menu will allow you to adjust audio (sound) settings, set music file repeat conditions (default - off, repeat once, and repeat all), adjust screen size, and check USB disk status.



- When using the Media Player function to play back video, music, or photo files, the PHD-VRX unit front panel LED display will show “PLAY” to indicate that the unit is in playback mode.

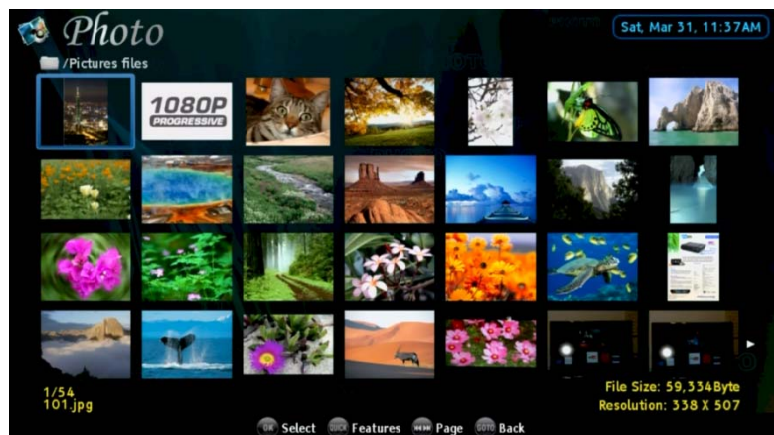


Photo

PHD-VRX will display picture files from the external USB HDD or through home network connections.

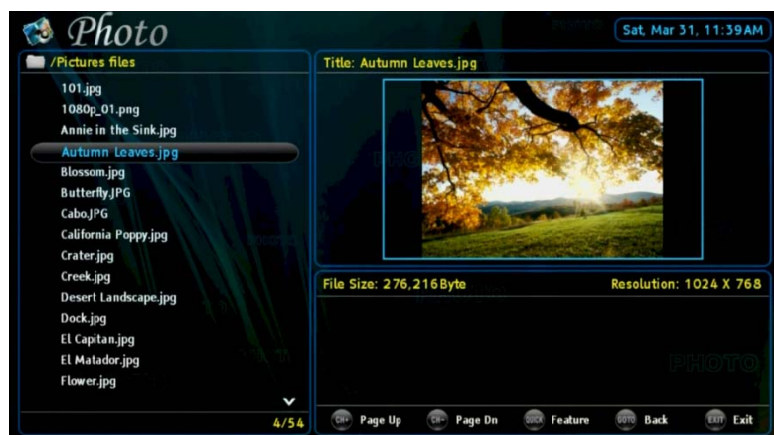
PHD-VRX provides two different ways to browse pictures.

- **Thumbnail Mode:** In this mode, PHD-VRX displays thumbnail images of pictures so the user can have a quick view. Use **◀/▶** and **▲/▼** to select the desired picture and press **OK** to bring up the full screen picture.



- **List Mode:** Similar to the Video menu screen. On the left, all available picture files in the current directory are listed. On the upper right portion, the picture currently highlighted is displayed in a smaller preview window.

Press **OK** remote key for the highlighted photo file. The full screen



picture will be displayed. Use ◀/▶ key to select the previous or next picture. Use ▲/▼ key to rotate pictures. Press **OK** to start the picture slideshow automatically.

You can press the **QUICK** remote key any time during slideshow. The Quick access menu will allow you to adjust slideshow change time (default is 5 sec., up to 90 sec.), adjust screen size, check USB disk status, and select the browse mode type (Thumbnail or List mode).



- In the full picture screen, the Quick menu also allows the user to set background music on or off and select which background music to play.



Record: The Record menu provides recording related features as well as USB utility functions.

1. Highlight the "Record" option and press **OK** or ▶.
2. Press ▲/▼ to highlight the item.
3. Press **OK** or ▶ to select an option.
4. Press **GOTO** key as the return function or ◀ key to go back to the previous menu location.
5. Press **EXIT** to exit menu.



Schedule Recordings

In this option, the user can select two different schedule recording methods: **Program Guide** using EPG as a schedule timer or **Manual Schedule** to fully control timer recording by you.

- **Program Guide** recording relies on Electronic Program Guide (EPG) data from TV broadcaster or Cable Company to do future or current schedule recording. If there is no EPG data available for that channel, PHD-VRX will turn it to manual schedule recording screen.



Press **OK** to select this option. PHD-VRX will bring up its guide screen. You can use navigation keys to move to the Program Title screen on the right side. Continue to use navigation keys to highlight the desired program for recording. Press



the remote button, and a new “Record Schedule Timer” screen will pop out on top of the guide screen. In this screen, you can adjust Type, Start time and End time of the show per your preference. Once you select “Done” and confirm, the Program Title will be marked with type icons on the right side to indicate that this program is scheduled for recording.



- Once scheduled recording is set, you can either turn off the unit to standby mode or keep the unit on. When time is up, PHD-VRX will automatically record the channel you previously set to.
- **Manual Schedule** recording allows the user to manually set different recording schedules.

Press **OK** to select this option and the Record









Schedule Timer screen will pop up. In this screen, majority options are open for the user to adjust.

You can set different record schedule types including Once, Everyday, Mon-Fri, Sat & Sun, and Weekly. Once selected, the “Upcoming Recording list” will mark this recording event with a different icon symbol according to a specific type.

Upcoming Recordings

All the current and future recording events are displayed under this option. You can also highlight the desired recording schedule to modify (Update) or delete it. The “Status” column indicates the recording status:

-  : Recording in progress.
-  : Will record soon.
-  : USB device unplugged.
-  : Not enough memory size to record.
-  : Recording is forced to stop.
-  : Recording error.




Ch. Num	Ch. Name	Date	Time	Duration	Source	Status	Type	Active
ANT 5-1	KTLA-DT	Jun 08	23:00	00:30	Guide			
ANT 5-1	KTLA-DT	Jun 09	00:00	00:30	Guide			
ANT 5-1	KTLA-DT	Jun 09	00:30	00:30	Guide			
ANT 5-1	KTLA-DT	Jun 09	01:30	00:30	Guide			

CC NC-17

Friends
The One With Joey's New Girlfriend: Chandler falls for a woman who is already involved with Joey; Rachel and Ross play the jealousy game.

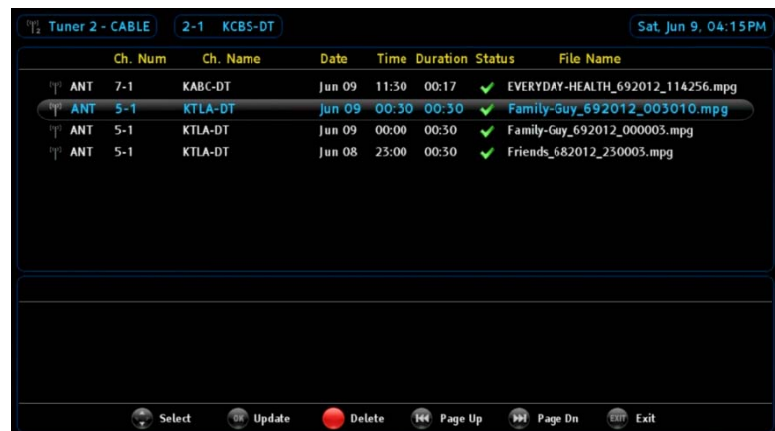
Select Update Delete Page Up Page Dn Exit



 You can set up to a maximum of **32** different recording schedule events. Once a recording is complete, then this recording information will be removed from the list.

Recorded Shows

Select this option to display the history of all your recorded shows. It contains TV program status, file names, and detailed program descriptions if available from EPG data.

File names used for recorded shows



Ch. Num	Ch. Name	Date	Time	Duration	Status	File Name
ANT 7-1	KABC-DT	Jun 09	11:30	00:17		EVERYDAY-HEALTH_692012_114256.mpg
ANT 5-1	KTLA-DT	Jun 09	00:30	00:30		Family-Guy_692012_003010.mpg
ANT 5-1	KTLA-DT	Jun 09	00:00	00:30		Family-Guy_692012_000003.mpg
ANT 5-1	KTLA-DT	Jun 08	23:00	00:30		Friends_682012_230003.mpg

Select Update Delete Page Up Page Dn Exit

are named by the following two conditions:

- (1) If the show has Electronic Program Guide (EPG) data associated with it, the file name will add the program title first followed by the date and time. For example:

File name: **KTLA-5-News-Sunday-Edition_5272012_200048.mpg**

The recorded program title is "KTLA-5-News-Sunday-Edition", and it was recorded on May (05), 27th, 2012. The recording started at 8:00pm 48s.

- (2) If the show has no EPG data associated with it, the file name will add the channel number first followed by the date and time. For example:

File name: **52.1_512012_221850.mpg**

The program is recorded from channel number 52.1 on May (05), 1st in 2012. The recording started at 10:18pm 50s.

USB Disk Status

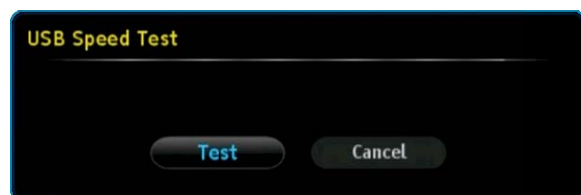
PHD-VRX can quickly check the external USB storage device status, which is the part of USB utility tools from PHD-VRX menu. Select this option, the USB Disk Status screen will pop up and display certain useful information like external USB storage size, available space, and the storage file system format like ext2, ntfs, or vfat (for FAT format). If PHD-VRX already previously tested the external USB device access speed, then USB Qualification will show the speed information as megabytes per second.



- PHD-VRX will only display status for the first USB device (usba) plugged into the unit.
- If there are no USB devices connected to PHD-VRX, the screen will show “- - - -” to indicate no information available.

USB Speed Check

This is another PHD-VRX USB utility tool which checks the external USB access speed. The higher speed number, the better recording performance is. For example, NTFS format USB device speed is usually



about 5MB/s, but ext2 format USB device speed can normally reach to 23~26MB/s. Therefore, for simple recording (one channel at a time), you can use either ext2 or NTFS format USB HDD. However, to record two channels from two tuners at the same time, you may need ext2 format USB HDD only.

If you select this option, the USB Speed Test screen will pop out. Select the “Test” option and PHD-VRX will start performing a read/write function to access your external USB HDD. After a while, PHD-VRX will display USB Speed Check Status screen to indicate the speed test result.

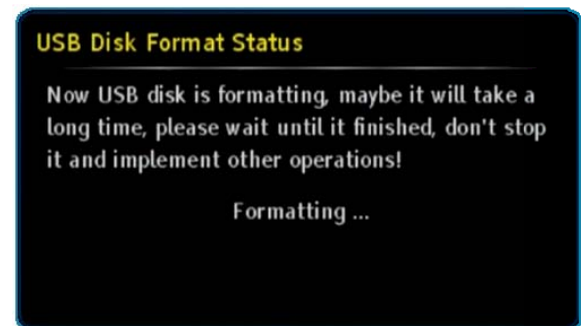
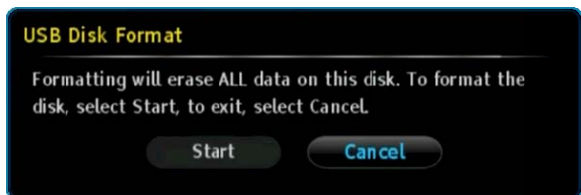


USB Disk Format

The PHD-VRX USB utility tool can also format an ext2 partition to the external USB HDD. Linux ext2 partition highly improves USB data access performance so the user can do more complicated recording tasks, such as: (1) recording two shows at the same time, (2) recording one TV show and time-shifting another show in the second tuner, (3) recording one show and playing a different video file at the same time, or (4) recording one show and switching to another input to watch videos, etc.

To format an ext2 partition, select this option. USB Disk Format screen will pop out. Select the Start option to start formatting. During formatting, you can't change channels since this is a dedicated task for PHD-VRX.

Once Start is selected, the USB Disk Format Status screen will come out and indicate that the formatting is in progress. After completion, the USB Disk Format Status screen will say the format is successful!





Timeshift Duration

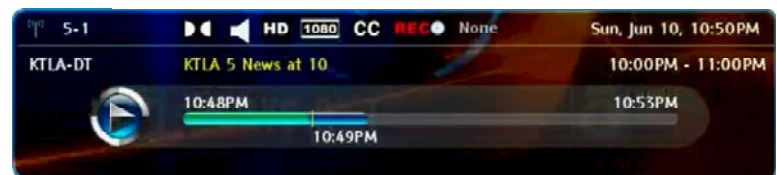
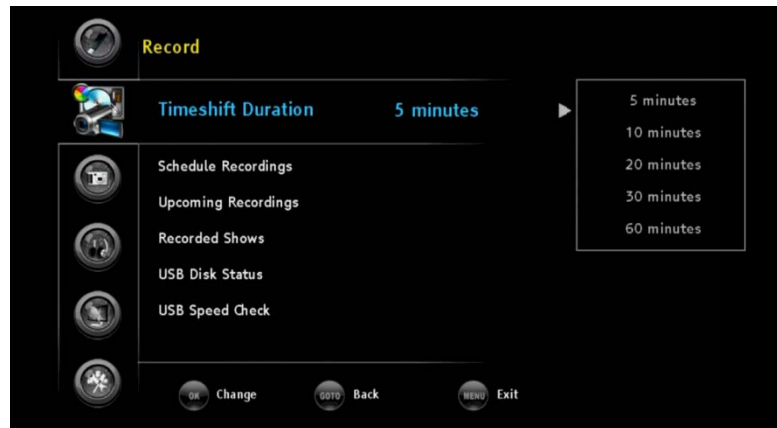
PHD-VRX provides a timeshift function, which can instantly rewind, fast forward or pause live TV shows. Since timeshifting uses the external USB HDD as temporary storage space, the timeshift buffer size (or duration period) has to be pre-set in order to reserve storage space from USB HDD in advance.

The timeshift duration default setting is 5 minutes. This means that once timeshift is enabled, you can always rewind up to 5 minutes back. When rewinding, the timeshift progress bar will be displayed to indicate the current time line point.

Of course, you can set a different timeshift duration (from 5, 10, 20, 30, to 60 minutes) based on your external HDD storage size. Use this option to select a different duration.





- To enable the timeshift function, during normal channel watching, press the  remote button. The “Start Timeshift” screen will pop out. Once you select “Yes”, you will see a red “R” running circle  displayed on the top right-hand corner of the TV screen to indicate that the timeshifting is now in progress.




■ PHD-VRX Electronic Program Guide (EPG)

The Electronic Program Guide (EPG) from PHD-VRX provides users with TV program schedules and an overview of program content on each channel at a specific time. The Electronic Program Guide enables you to select programs to watch or record. PHD-VRX currently offers the PSIP (Program and System Information Protocol) program guide, which is free from TV broadcasters or some Cable companies. The 3rd party detail-rich EPG service will soon be linked with PHD-VRX via network connection. The following figure illustrates some key elements of the PHD-VRX Program Guide.



- (1) **Current Guide Status:** This area includes the current tuner selected, the current highlighted channel, and the date and time.
- (2) **Channel Name:** Lists all the available channels and station names from this tuner. Press navigation keys **UP** and **DOWN** to scroll through each channel or use  and  to quick jump many channels at a time.



- After scrolling up or down to a different channel, PHD-VRX will start tuning to that channel. On the top right hand corner, the Guide screen will display  to indicate that tuning is in

progress. Once complete, the lower left side will display a new channel video and the program title will be refreshed to the new channel program.

- If recording is in progress, the Guide screen can still be turned on. The lower left channel video will have a red dot showing the



recording and lock the channel so the user can scroll to a different channel without tuning.

- (3) **Program Title:** This area lists all the available TV programs from the current select channel. Since current PSIP data is free and sent from each TV station, how long the program data can be shown depends on each TV station. Use navigation keys **UP** and **DOWN** to scroll through each TV program or use and to quick jump many program titles at a time.

- (4) **Current Channel Video:** This area displays live video from the current highlighted channel.

- (5) **Program Detail Descriptions:** Each highlighted TV program has further detail description about the show displayed here.

Right on the top of this area



are also the channel indicators for audio, video and record setting status.

- (6) **Guide Navigation Keys:** Use these remote keys to easily navigate the PHD-VRX Guide Screen.



- If a program title is highlighted, pressing the remote key will create a Program Guide Recording event. Please refer to the "How to use PHD-VRX Recording Features" section to learn details regarding Program Guide Recording.

■ How to use PHD-VRX Timeshifting Features

To use PHD-VRX timeshift and live pause features, first you will need to plug in external USB storage devices such as the USB HDD (Hard Disk Drive) or the USB flash stick into the PHD-VRX unit.

Once plugged, PHD-VRX will promptly detect and mount the USB device. You can then press **QUICK** remote button to verify USB device status from the Quick Menu, or the USB device connecting screen will pop out first if some files are already in the USB HDD.

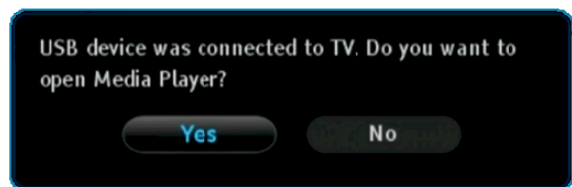
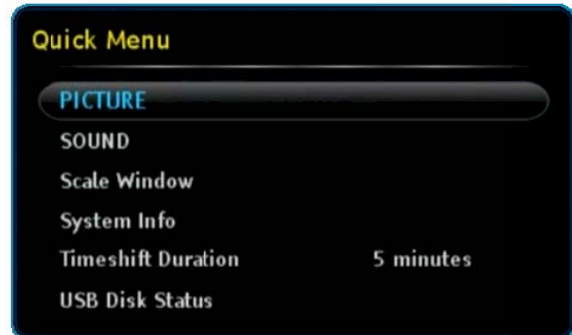
In order to create timeshift on live TV program, PHD-VRX will generate and store a “timeshift.mpg” file first to the external USB device.



PHD-VRX also provides several timeshift durations (5, 10, 20, 30, and 60 minutes) to choose from. The timeshift duration is like a time buffer. Within this duration, you can shift the program backward, forward or pause at any point you prefer. You can also choose the proper timeshift duration based on your external USB HDD size since larger timeshift durations will generate bigger HDD storage space. The default duration is 5 minutes.

There are two ways to adjust timeshift duration. Press **QUICK** remote button to bring up the Quick Menu. In this menu, move to the “Timeshift Duration” option and then use navigation keys LEFT and RIGHT to change the proper duration time. Or, in the menu, select Record → Timeshift Duration. Then use navigation keys to choose the duration time.



- PHD-VRX can access timeshift.mpg files only from the first USB device plugged in (internal system assigns it as “usba”). The second USB device plugged in (assigned as “usbb”) will be used as a general media player device.
- Make sure USB HDD is formatted as either Linux ext-2 or Windows NTFS format for timeshifting. PHD-VRX provides an on-screen format utility tool so you can directly format your HDD to Linux ext-2 for the best performance.



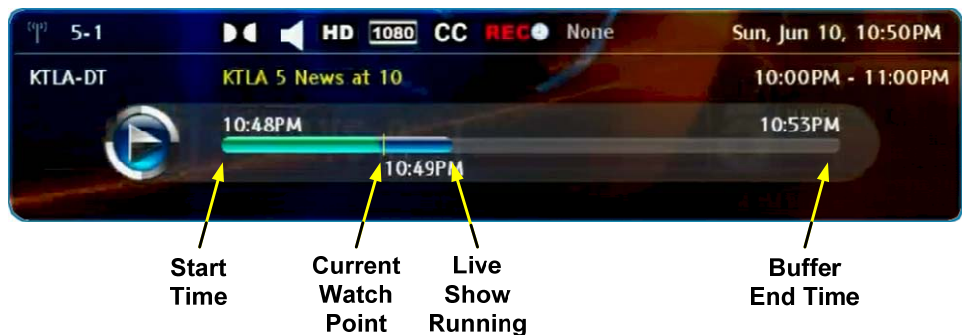
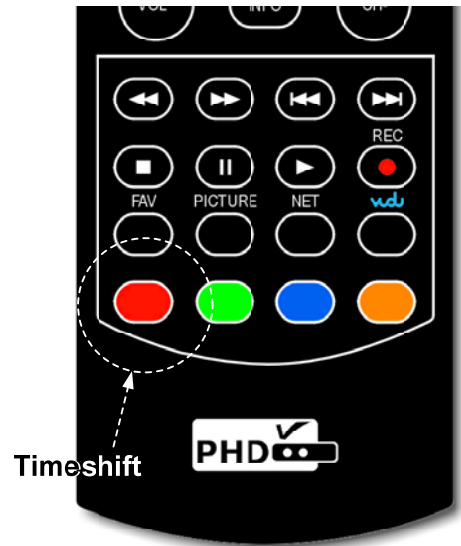
To start timeshifting, watch a live TV show from either PHD-VRX tuner 1 or tuner 2. Then press the  remote button. The “Start Timeshift” screen will pop out. Once you select “Yes”, you will see a red “R” running circle  displayed on the top right-hand corner of the TV screen to indicate that the timeshifting function is now in progress.

At the same time, you will see timeshift information screen displayed on the bottom of TV screen.



On the inside of the timeshift information screen, there is the timeline for timeshift progress bar. The green bar indicates the current moment that you are watching now from TV. The blue bar indicates the real live TV show displaying moment.

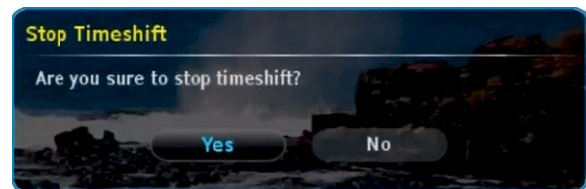
Now you can use remote control action buttons to adjust the speed and pause, or stop, the video at any point you prefer.

These action control buttons are:



- ▶ **PLAY:** Play or resume current paused video.
- ⏸ **PAUSE:** Pause live TV or pause current video.
- ◀◀ **RWD:** Rewind video quickly. Press this key multiple times to create 2x, 4x, 8x, 16x, 32x, 64x, 128x, and 256x different rewind speeds.
- ▶▶ **FF:** Fast Forward video quickly. Press this key multiple times to create 2x, 4x, 8x, 16x, 32x, 64x, 128x, and 256x different fast forward speeds.
- ◀◀ **SLOW BACKWARD:** Slow motion of rewind video. Press this key multiple times to create 1/2x, 1/4x, 1/8x, 1/16x, 1/32x different rewind speeds.
- ▶▶ **SLOW FORWARD:** Slow motion of forwarding video. Press this key multiple times to create 1/2x, 1/4x, 1/8x, 1/16x, 1/32x different forward speeds.
- **STOP:** Stop timeshift.

Either press the  or  remote button again to stop timeshift function. “Stop Timeshift” screen will pop up. To confirm stopping timeshifting, select the “Yes” option.



- To indicate timeshifting in progress, the PHD-VRX unit front panel LED display will show:
 - “rEC-1” and red light for tuner 1 timeshifting.
 - “rEC-2” and red light for tuner 2 timeshifting.
- If no action control button is pressed in a certain period of time, the timeshift information screen will automatically time out. Press any action control button again, and the timeshift information screen will re-appear. Or, press **QUICK** remote button to bring up the Quick Menu. Then select the “Timeshift Status” option to bring up the timeshift information screen again.



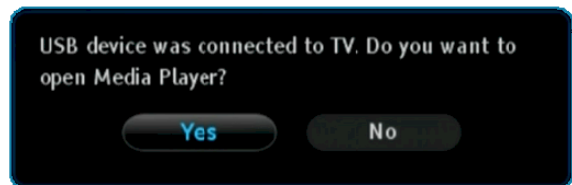
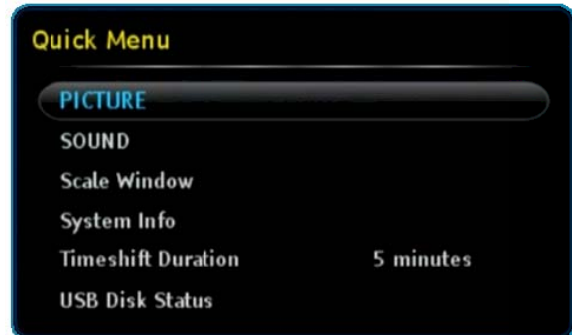
■ How to use PHD-VRX Recording Features

To record TV shows, first, you will need to plug in the external USB storage devices such as the USB HDD (Hard Disk Drive) or USB flash stick to PHD-VRX.

PHD-VRX will promptly detect and mount the USB device. You can then press **QUICK** remote button to verify USB device status from Quick Menu. Or the USB device connecting screen will pop out first if some files are already in the USB HDD.





- PHD-VRX can record TV shows on the first USB device plugged in (internal system assigns it as “usba”). Second USB device plugged in (assigned as “usbb”) will be used as a general media player device.
- Make sure USB HDD for recording is formatted as either Linux ext-2 or Windows NTFS format. PHD-VRX provides on-screen format utility tool so you can directly format your HDD to Linux ext-2 for the best performance.



To start recording, PHD-VRX provides four (4x) different recording methods in general:

1. **Record Now:**

This is the simplest recording method. Press


the  remote button, and then select the “Record now” option. Instantly, PHD-VRX will start recording. You will see a red “R” running circle  displaying on the top right-hand corner of the TV screen to indicate that the current show is recording now. PHD-VRX will continue recording until you press **STOP** remote button to stop.

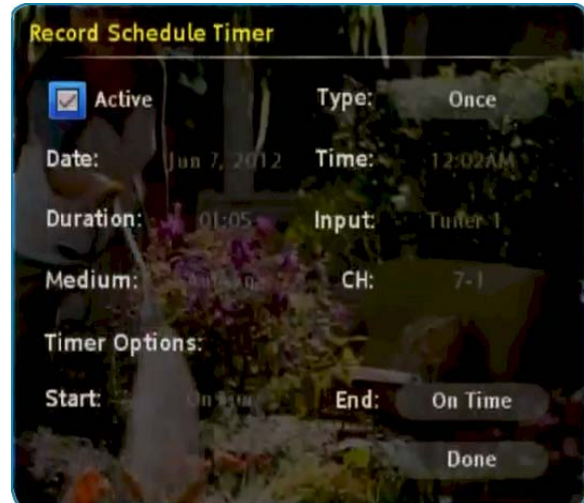



- To indicate recording in progress, the PHD-VRX unit front panel LED display will show:
 - “rEC-1” and red light for tuner 1 recording.
 - “rEC-2” and red light for tuner 2 recording.
 - “rEC-1-2” and red light for both tuner 1 and tuner 2 recording at the same time.



2. Manual Recording associated with Program Guide:

Press the  remote button and select the “Create a manual recording” option. If PHD-VRX detects the current TV show with Electronic Program Guide (EPG) data, PHD-VRX will automatically think you want to record this show from current moment to the end of the show. Once selected, the Record Schedule Timer screen will pop out. The active option is checked by default. All other options are greyed out and filled by EPG data except for “End Time”, in which the recording ending time can be increased from 1 minute up to 60 minutes’ delay.



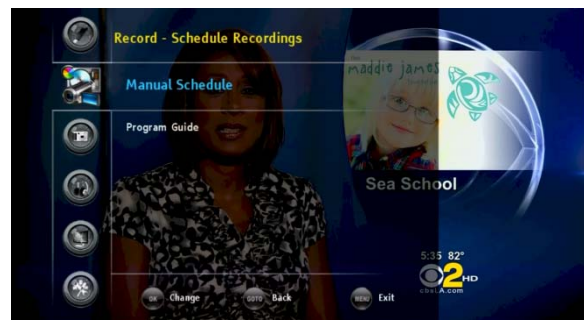
Once you select “Done” to confirm the schedule timer, PHD-VRX will start immediately recording. You will see the red “R” running circle  on the top right-hand corner of TV screen as an indicator. PHD-VRX will automatically stop recording when the timer ends.



- Using this method to record the show if without EPG data, the Record Schedule Timer screen will open up all options and allow user to manually adjust them.






3. Manual Recording:

You can fully control how to schedule your recording by selecting this option from the main menu. Press **MENU** remote button to bring up main menu, then select Record → Schedule Recordings → Manual Schedule. Once selected, the Record Schedule Timer screen will pop out. In this point, majority options are open for user to adjust.



- **Active** option: Select this option to turn the schedule timer active and ready to record. You can also unselect this option to reserve this schedule timer and check back later in the “Upcoming Recording list”, see Page 5.



- **Type:** You can set different record schedule types as shown below.
 - **Once:** This record schedule will be used for only one time. The “Upcoming Recording list” will show  for this type.
 - **Everyday:** Selecting this type will force PHD-VRX unit to record the show at the same time every day. The “Upcoming Recording list” will show  for this type.
 - **Mon-Fri:** Selecting this type will force PHD-VRX unit to record the show at the same time during weekdays only. The “Upcoming Recording list” will show  for this type.
 - **Sat & Sun:** This type will force PHD-VRX unit to record the show at the same time during weekends only. The “Upcoming Recording list” will show  for this type.
 - **Weekly:** Selecting this type will force PHD-VRX to record the show at the same date and time every week. The “Upcoming Recording list” will show  for this type.
- **Date and Time** options: You can adjust the recording starting time and date from these options.
- **Duration:** You can also adjust recording duration from this option. The minimum recording duration is 5 minutes (00:05).
- **Input:** Select recording schedule tuner input (Tuner 1 or Tuner 2).
- **Medium:** Select recording input RF source (Antenna or Cable).

Since you can adjust the date/time and duration, Timer Options won't be available. Once you select “Done” and confirm, PHD-VRX will remember this schedule timer and display schedule information on the “Upcoming Recording list” ” (see Page 5).



- You can either leave the unit on or turn off the unit to standby mode. Once the time is up, the unit will prompt a message and start recording, or wake up from the standby

mode to start recording. The unit front panel will also show either “rEC-1” or -2 or both to indicate it is in recording progress.

4. Program Guide Recording:

There are two ways to start program guide recording. In menu, select Record → Schedule Recordings → Program Guide. This way, PHD-VRX will bring up Program Guide screen. Or, you can directly press **GUIDE** remote button to bring up the same screen.

In the Program Guide screen, use navigation keys UP and DOWN to search the desired channel. Then use RIGHT key to move to proper program title for recording.

If the highlighted program title is the very first one, which is the current show, then press



remote button. The “Record Options” screen will pop out. PHD-VRX will treat this recording the same way as method 1 or method 2 described on page 1 and 2.

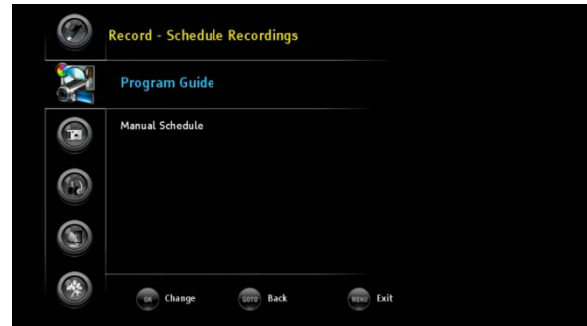
If the highlighted program’s title is something other than the first one, it is a future show.

REC

Press the remote button, and a new “Record Schedule Timer” will pop out. In this screen, you can adjust Type, Start time and End time of the show per your preference. Once you select “Done” and confirm, the Program Title right side will be marked with type icons to indicate that this program is scheduled for recording.



- Once future schedule recording is set, you can either turn off the unit to standby mode or still keep the unit on. If the unit is on, you can still watch other TV shows from a



different channel or from a different tuner. You can even switch to a different input. When time is up, PHD-VRX will automatically record the channel you previously set to.

To check or modify record schedules from the “Upcoming Recordings” screen:

All recording activities including the current recording and future schedule recordings are all displayed from the Upcoming Recording list. To bring up this screen, press **MENU** remote button, then in Menu, select Record → Upcoming Recordings.

Move to the desired recording schedule and you can modify (Update) or delete the schedule.









Ch. Num	Ch. Name	Date	Time	Duration	Source	Status	Type	Active
ANT 5-1	KTLA-DT	Jun 08	23:00	00:30	Guide	R	●	☑
ANT 5-1	KTLA-DT	Jun 09	00:00	00:30	Guide	✓	●	☑
ANT 5-1	KTLA-DT	Jun 09	00:30	00:30	Guide	✓	●	☑
ANT 5-1	KTLA-DT	Jun 09	01:30	00:30	Guide	✓	●	☑

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Friends
The One With Joey's New Girlfriend: Chandler falls for a woman who is already involved with Joey; Rachel and Ross play the jealous game.

Select Update Delete Page Up Page Dn Exit

The “Status” column indicates the current recording status:

-  : Recording in progress.
-  : Will record soon.
-  : USB device unplugged.
-  : Not enough memory size to record.
-  : Recording is forced to stop.
-  : Recording error.



- Once you set a schedule, it is always good to check back from this “Upcoming Recordings” screen to confirm that you have successfully set up a timer recording schedule.
- You can set up to a maximum of **32** different recording schedule events. Once a recording is complete, then this recording information will be removed from the list.

To check the recorded TV program from “Recorded Shows” screen:

This “Recorded Shows” screen holds the history of your recorded shows and contains all TV program status, file names and detailed program description if it is available from program guide. To bring up this screen, press **MENU** remote button, then in menu, select Record → Recorded Shows.




Ch. Num	Ch. Name	Date	Time	Duration	Status	File Name
ANT 7-1	KABC-DT	Jun 09	11:30	00:17	✓	EVERYDAY-HEALTH_692012_114256.mpg
ANT 5-1	KTLA-DT	Jun 09	00:30	00:30	✓	Family-Guy_692012_003010.mpg
ANT 5-1	KTLA-DT	Jun 09	00:00	00:30	✓	Family-Guy_692012_000003.mpg
ANT 5-1	KTLA-DT	Jun 08	23:00	00:30	✓	Friends_682012_230003.mpg

- File names used for recorded shows are named by the following two conditions:
 - If the show has Electronic Program Guide (EPG) data associated with it, the file name will add program title first followed by the date and time. For example,

File name: **KTLA-5-News-Sunday-Edition_5272012_200048.mpg**

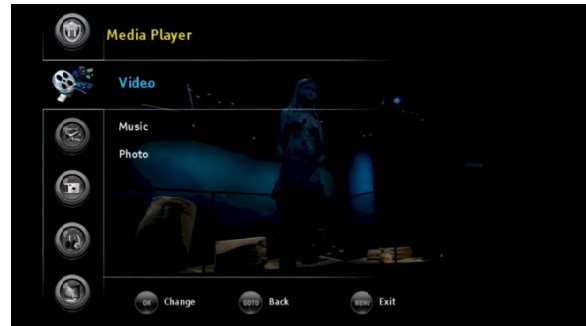
The recorded program title is “KTLA-5-News-Sunday-Edition”, and it is recorded on May (05), 27th in 2012. The recording started at 8:00pm 48s.
 - If the show has no EPG data associated with it, the file name will add the channel number first followed by the date and time. For example,

File name: **52.1_512012_221850.mpg**

The program is recorded from channel number 52.1 on May (05), 1st in 2012. The recording started at 10:18pm 50s.
- To play back recorded programs, you will need to go to the “Media Player” menu and select “Video” to play.

To play recorded shows from the Media Player menu:

You can access PHD-VRX Media Player menu to play back all video, music and photo files from USB HDD or a USB flash stick. The recorded TV shows from PHD-VRX are those files with the extension of .mpg, which can be accessed under Video section. To play these files, press **MENU** remote button, then in Menu, select Media Player → Video.







A new “Video” menu screen will come out. On the left side of the screen is the list showing all recognized video files including recorded TV shows. On the top portion of the right side is the preview window for the video file you currently highlighted. The right side bottom portion shows a video time line and action keys.



Press **OK** remote button for the highlighted file. The full size video will be displayed.

For both small preview video and full size video, you can use remote control action buttons to adjust the speed or stop the video at any time. These action control buttons are:



-  **PLAY:** Play or resume a paused video.
-  **PAUSE:** Pause current video.
-  **STOP:** Stop playback.
-  **FORWARD SKIP:** Use for commercial skip or quick video jumping. Press this key once to generate a 20 second forward skip. Press and hold this key to create steady 20 second increments of continuous video forwarding.

- ⏮ **BACKWARD SKIP:** Use for commercial skip or quick video jumping. Press this key once to generate a 20 second backward skip. Press and hold this key to create continuous 20 second decrements of video rewinding.
- ⏪ **RWD:** Rewind video quickly. Press this key multiple times to create 2x, 4x, 8x, 16x, and 32x different rewind speeds.
- ⏩ **FF:** Fast Forward video quickly. Press this key multiple times to create 2x, 4x, 8x, 16x, and 32x different fast forward speeds.



- When using the Media Player function to play back video, music or photo files, PHD-VRX unit front panel LED display will show “PLAY” to indicate that the unit is in playback mode.

To record TV shows from both tuners:

No matter which recording methods you are using, you can record two shows from two tuners at the same time. After recording one show in tuner 1 for example, or setting up a schedule timer for a tuner 1 program, you can switch to tuner 2 by pressing the **INPUT** remote button. The “Inputs” screen will pop up. Use the UP or DOWN key to select either Tuner 1 or Tuner 2 and press **OK** remote button to switch.

Or, you can simply press **TV** remote button to toggle between Tuner 1 or Tuner 2 input. Switch to a different Tuner, then start setting up a recording method, as detailed on pages 1 to 4, as usual.





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