PHD

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

Quick Start Guide

MODEL : PHD-VRX

To view full version of

PHD-VRX user manual, USB DTV Recording and Timeshifting Operation Guide, please go to www.epvision.com/HDTVSTB/phdvrxmain.htm.

PrimeDTV Technologies
DOC# VRX-sv1.02

HIGH-DEFINITION TELEVISION

HDTV TUNER

Front View
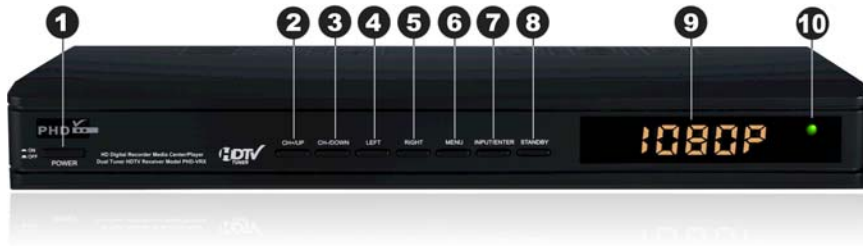
❶ POWER		Switch unit ON and OFF.
❷ CH+/UP		• Move TV channel number up, or • Move the on-screen highlight up.
❸ CH-/DOWN		• Move TV channel number down, or • Move the on-screen highlight down.
❹ LEFT/VOL-		• Move the on-screen highlight to left, or • Reduce audio volume.
❺ RIGHT/VOL+		• Move the on-screen highlight to right, or • Increase audio volume.
❻ MENU		• Display On-screen (OSD) Main Menu.
❼ INPUT/ENTER		• Bring up INPUT menu to select input source, or • Select the item highlighted on OSD menus.
❽ STANDBY		Switch unit in Standby or Operation mode.
❾ 6-Digit LED		• In TV Mode, shows current channel number. • In other INPUTs or Standby mode, shows current clock time.
❿ Status LED		• Displays 🟢 during normal operation mode. • Displays 🔴 during standby mode. • Displays 🔴 when is in Recording or Timeshifting mode.

Back View

❶ Two Tuners (RF1, RF2)	• RF1 (Tuner 1), an ATSC/QAM/NTSC tuner to receive digital and analog channels. • RF2 (Tuner 2), an ATSC/QAM tuner to receive only digital channels. *Note: PHD-VRX can only record or timeshift on digital channels only, not on analog channels.*
❷ Two USB ports (USB1, USB2)	Use any of USB ports to connect external USB storage devices or optional USB WiFi adapters. • 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 all video, music and picture files. *Note: PHD-VRX has built-in USB utility menu to test USB speed and partition USB to ext2 format.*
❸ VGA (RGB) w/ Audio inputs	Accept video and audio inputs from PC VGA port.
❹ HDMI input	Accept HDMI input from external devices like Blu-ray player and etc.

Back View (cont.)

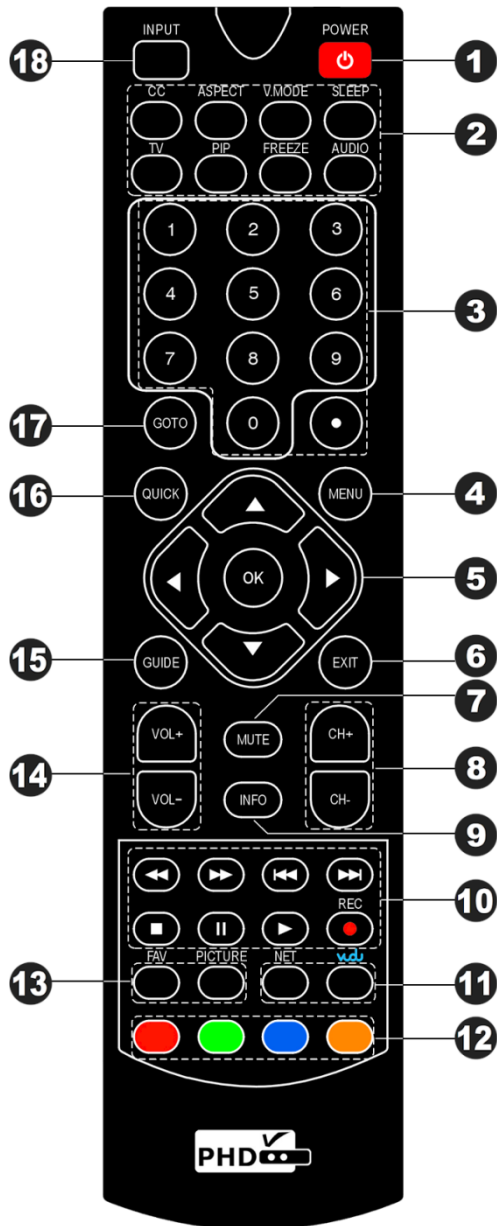|		
5 Composite Video and Audio inputs	Accept composite video (480i) and stereo audio inputs from external devices.	
6 Component video input	Accept component (Y-Pb-Pr) video (480p/720p/1080i) input from external devices.	
7 10/100 Ethernet Port	Connecting to external network. • Connect NTP (Network Time 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 (480p / 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.	

Contents

PHD-VRX Unit

2x AAA Batteries   HDMI Cable

Remote Control   Quick Start Guide

Remote Control

❶	POWER	Switch unit ON or standby mode.
❷	FUNCTION KEYS	• **CC**: turn closed caption on or off. • **ASPECT**: change screen size. • **V.MODE**: change video resolution (480p/720p/1080p). • **SLEEP**: select preset timer for auto shut off. • **TV**: directly jump to Tuner 1 when unit is in other input. • **PIP**: (future option) • **FREEZE**: Pause video • **AUDIO**: digital/analog audio sound mode change.
❸	NUMBERS & DOT	Press to enter numbers or change channel numbers.
❹	MENU	Display On-Screen (OSD) main menu
❺	NAVIGATION	Directions (Up, Down, Right, Left) and OK keys to navigate menu.
❻	EXIT	Exit the current menu or operation.
❼	MUTE	Temporarily turn off sound.
❽	CH+/CH-	Change channel up and down.
❾	INFO	Show current input status. In TV Mode, show channel status and quick program guide.
❿	ACTIONS	To play video/audio programs for recorded TV show, timeshift, media player, video streaming. (⏪)**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.

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	• **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. *Note: Quick menu is very useful and handy without bringing up main menu and steps for accessing a specific function.*
⑰ GOTO (RETURN)	This key will bring the current menu or function to the previous state. 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, then press the desired buttons.

Connections & Setup

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 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 player, DVD player, 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, 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 (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 480p/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.

Powering Up and Initial Setup

After connecting PHD-VRX with proper input/output sources, you need to power up unit and run initial setup including automatically scanning available channels. This initial setup is only required once at the first time turning on the unit.

1. Plug the Power cord from back of the unit into AC outlet.

2. Press Power button on the left side of front panel. Wait until red light/clock time came out. Press either remote **POWER** key or Standby button to turn on the unit.

3. Boot up time is usually taking about 30 seconds and front panel display showing "BOOT". There will be NO video on TV screen during boot up time. After boot up complete, front panel shows "no ch" and green light.

4. Follow on-screen initial set up menus to complete the procedures: