

- 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. Do not use USB HDD with FAT or FAT32 format. PHD-VRX provides on-screen format utility tool so you can directly format your HDD to Linux ext-2 for the best performance.
- We recommend using the USB HDD for regular recording for reliability. For simple or one time quick recording, you can consider using USB flash stick.



- To start recording, PHD-VRX provides three (3x) different recording methods in general:

1. **Record Now:**

This is the simplest recording method. Press the  remote button, and the Record Options menu will pop up. This menu indicates the current channel number you will record with the following recording options to choose:

- Record Now (30 minutes):
Select this option to instantly record 30 minutes on this channel.
- Record Now (1 hour):
Select this option to instantly record 1 hour on this channel.
- Record Now (2 hours):
Select this option to instantly record 2 hours on this channel.

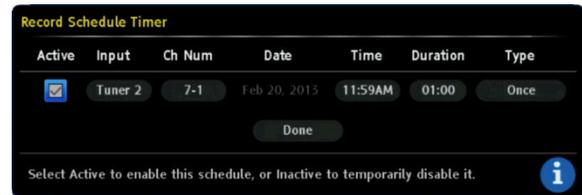


iv) Record Now (4 hours):

Select this option to instantly record 4 hours on this channel.

v) Create a manual recording:

Selecting this option will allow the user to set up a timer schedule manually. This is the same method of manual recording described below. A "Record Schedule Timer" screen will pop up for more settings.



Once the Record Now option is selected and confirmed, PHD-VRX will start recording immediately. You will see a red "R" running circle  displayed 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 the timer runs out, or you can press the **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:

You can fully control how to schedule your recording manually from the "Record Schedule Timer" screen.

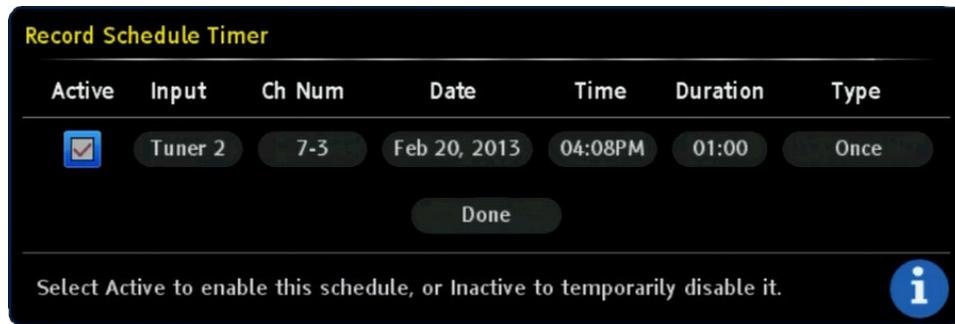


There are two ways to access this screen:

- Press **MENU** remote key to bring up on-screen menu. Navigate to Record section, then use /  or /  keys to select "Manual Schedule" option. Press **OK** key to enter Record Schedule Timer menu.
- Or, press blue  remote key as a manual recording short cut key to access Record Schedule Timer screen immediately during normal operations.

Once selected, the Record Schedule Timer screen will pop out. At this point, all options are open up for user to adjust.





- **Active:** Select this option to turn the schedule timer active and ready to record. You can also unselect this option to reserve this schedule and check back later in the “Upcoming Recording list”, see Page 5.
- **Input:** Select which tuner input (Tuner 1 or Tuner 2) to use for the recording schedule.
- **Ch Num:** Use this option to find the desired channel number you want to record to.
- **Date:** You can adjust the recording date here.
- **Time:** You can adjust the recording starting time here.
- **Duration:** You can also adjust the recording duration from this option. The minimum recording duration is 5 minutes (00:05).
- **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.

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.

3. Program Guide Recording:

There are two ways to start program guide recording.

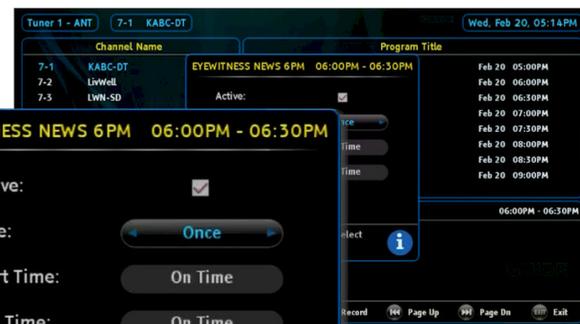
- In main menu, select Record → Program Guide. This way, PHD-VRX will bring up Program Guide screen.
- Or, you can directly press **GUIDE** remote button to bring up the same screen.



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.



After highlighted the program title, then press  remote button. The “Record Options” screen will pop out. It will indicate the current program name as well as the duration of the show.



Use navigation keys to scroll up and down to select the options for this program schedule.

- **Active:** Select this option to turn the schedule timer active and ready to record. You can also unselect it to reserve this schedule timer and re-activate it later in the “Upcoming Recording list”.
- **Type:** You can set 5x different record schedule types, **Once**  , **Everyday**  , **Mon-Fri**  , **Sat & Sun**  and **Weekly**  , as mentioned on Page 3.
- **Start Time:** You can even set this schedule to start recording earlier. There are several options: On Time, 1 min- (earlier), 2 min-, 3 min-, 4 min-, 5 min-, 6 min-, 7 min-, 8 min-, 9 min-, and 10 min- (earlier).
- **End Time:** You can also set this schedule to finish recording later. These options are: On Time, 1 min+ (late), 2 min+, 3 min+, 4 min+, 5 min+, 10 min+, 15 min+, 30 min+, and 60 min+ (late).

Once you select “Done” and confirm, the schedule is set. The color Type icon will be automatically appended to the right side of program name.



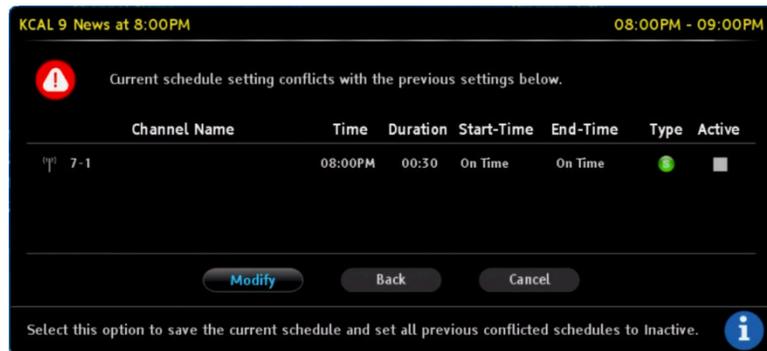
- To quick search channel numbers or program titles, you can use ◀ or ▶ key to scroll up and down page by page.
- Inactive program schedules will be displayed with grey color Type icons.
- If the current schedule overlaps with the previous schedules, the “Conflict Schedule Manager” screen will pop up. It will list all the overlapped schedules conflicted with the current one. The user have a choice to select “Modify” option to de-activate all the previous overlapped schedules, or confirm with “Back” option to go back the previous “Record Options” screen and re-change the settings. Or, the user can select “Cancel” option to cancel this schedule event completely.



Program Title	Date	Time	Type Icon
CBS 2 News at 11:00	Feb 20	11:00PM	
Late Show With David Letterman	Feb 20	11:35PM	Green circle
The Late Late Show With Craig Ferguson	Feb 21	12:37AM	Red circle with 'P'
Comics Unleashed With Byron Allen	Feb 21	01:37AM	Blue circle with 'D'
Paid Programming	Feb 21	02:07AM	
Up to the Minute	Feb 21	02:35AM	Yellow circle with 'C'
CBS Morning News	Feb 21	04:00AM	
CBS 2 News at 4:30	Feb 21	04:30AM	



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Comics Unleashed With Byron Allen	Feb 21	01:37AM	Greyed-out blue circle with 'D'
Paid Programming	Feb 21	02:07AM	
Up to the Minute	Feb 21	02:35AM	Yellow circle with 'C'
CBS Morning News	Feb 21	04:00AM	
CBS 2 News at 4:30	Feb 21	04:30AM	



KCAL 9 News at 8:00PM 08:00PM - 09:00PM

⚠ Current schedule setting conflicts with the previous settings below.

Channel Name	Time	Duration	Start-Time	End-Time	Type	Active
7-1	08:00PM	00:30	On Time	On Time	Green circle	Grey square

Buttons: **Modify** (blue), **Back** (grey), **Cancel** (grey)

Select this option to save the current schedule and set all previous conflicted schedules to Inactive. ⓘ

■ 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.

There are two ways to access this screen:

- Press **MENU** remote key to bring up on-screen menu. Navigate to Record section, then use ◀/▶ or ▲/▼ keys to select “Upcoming Recordings” option. Press **OK** key to bring up this screen.

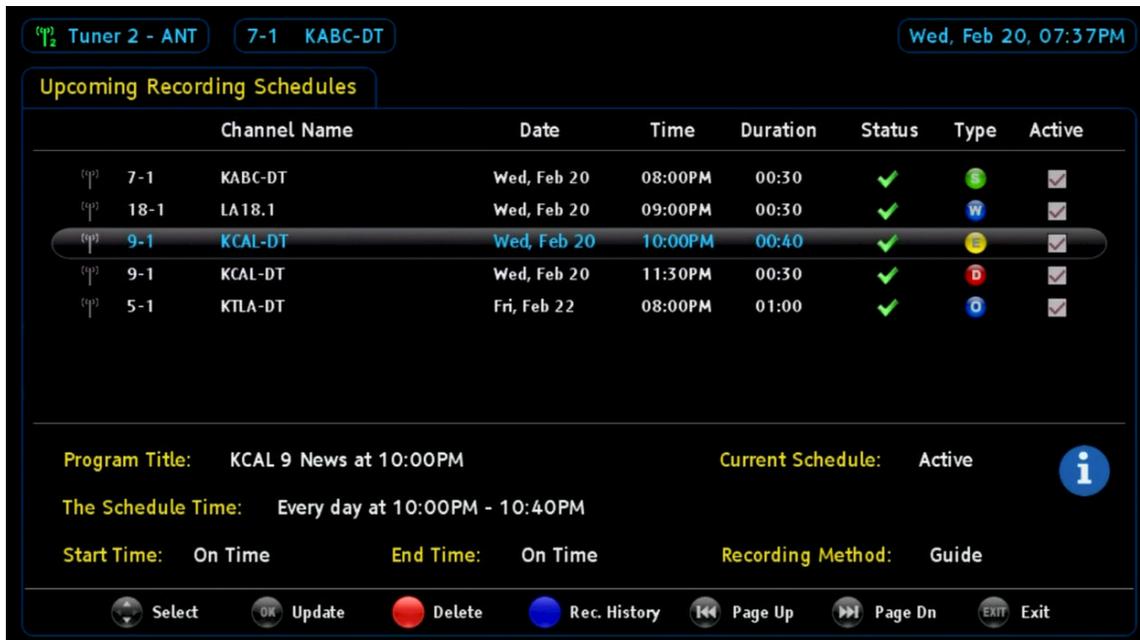


Record

- Upcoming Recordings (selected)
- Recording History
- USB Disk Status
- USB Speed Check
- USB Disk Format
- Timeshift Duration: 5 minutes

Buttons: **Change** (grey), **Back** (grey), **Exit** (grey)

- Or, press the green remote key as an upcoming recordings list short cut key to access the Upcoming List screen immediately during normal operations.



The top portion of the Upcoming Recording Schedules screen lists each schedule detail including channel number, name, schedule time and duration, status, type and active information. Move to the desired recording schedule, then modify (Update) the schedule by pressing **OK** key or delete the schedule by pressing red remote key.

The "Status" column indicates the current recording status:

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



On the desired schedule, the bottom portion of Upcoming Recording Schedules screen displays further details about the schedule:

- Program Title: If it is available, the program name of the show will be displayed in this area.
- Current Schedule: indicates if the current schedule is active or inactive.
- The Schedule Time: shows a better description of the current schedule time.
- Start Time: indicates on-time or earlier recording.
- End Time: indicates on-time or late to finish recording
- Recording Method: indicates this schedule is either Guide recording or Timer recording.

For the convenience, the user can quickly view the last three recorded TV shows information by pressing blue  remote key without leaving this Upcoming Recording Schedules screen. Once pressed, the “Recording History – Last 3 Recordings Quick List” sub-screen will pop-up in the bottom area. You can press blue  remote key again to clear out this “Recording History” screen or wait for a time-out to occur.



The screenshot shows the 'Upcoming Recording Schedules' screen with a table of scheduled recordings and a 'Recording History - Last 3 Recordings Quick List' sub-screen at the bottom.

Channel Name	Date	Time	Duration	Status	Type	Active
7-1 KABC-DT	Wed, Feb 20	08:00PM	00:30	✓	🟢	☑
18-1 LA1&1	Wed, Feb 20	09:00PM	00:30	✓	🟡	☑
9-1 KCAL-DT	Wed, Feb 20	10:00PM	00:40	✓	🟠	☑
9-1 KCAL-DT	Wed, Feb 20	11:30PM	00:30	✓	🔴	☑
5-1 KTLA-DT	Fri, Feb 22	08:00PM	01:00	✓	🟡	☑

Channel Name	Date	Time	Duration	Status	Program Name
7-1 KABC-DT	Feb 19	07:00PM	00:59	✓	JEOPARDY!_2192013_190043.mpg
7-1 KABC-DT	Feb 18	07:00PM	00:59	✓	ABC7-PRESENTS-THE-LOS-ANGELES-MAYORAL...
7-1 KABC-DT	Feb 17	07:00PM	00:59	✓	7.1_2172013_190041.mpg



- Once you set a schedule from the Guide screen or manually, it is always good to check back from the “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 “Recording History” screen:

This “Recording History” 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 → Recording History.



- File names used for recording 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 the program title first followed by the date and time. For example,



Channel Name	Date	Time	Duration	Status	File Name
7-1 KABC-DT	Feb 19	07:00PM	00:59	✓	JEOPARDY!_2192013_190043.mpg
7-1 KABC-DT	Feb 18	07:00PM	00:59	✓	ABC7-PRESENTS: THE LOS-ANGELES-MAYORAL...
7-1 KABC-DT	Feb 17	07:00PM	00:59	✓	7.1_2172013_190041.mpg
7-1 KABC-DT	Feb 16	07:00PM	01:00	✓	7.1_2162013_190038.mpg
5-1 KTLA-DT	Feb 15	09:00PM	01:00	✓	5.1_2152013_210010.mpg
5-1 KTLA-DT	Feb 15	08:00PM	00:59	✓	5.1_2152013_200011.mpg
7-1 KABC-DT	Feb 15	07:00PM	00:59	✓	JEOPARDY!_2152013_190112.mpg

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 “Recordings” to play. Please refer to “PHD-VRX TV Show Playback Features Guide” for complete details about features and operations.

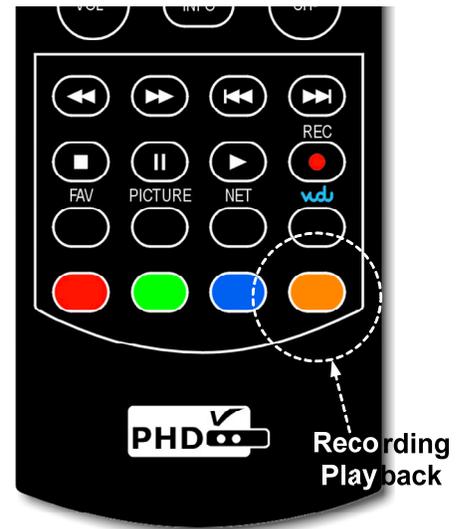
To play recorded shows from the Media Player menu:

You can access PHD-VRX Media Player menu to play back recorded TV shows from the external USB hard drive. The recorded TV shows from PHD-VRX are those files with the extension of .mpg, which can be accessed under “Recordings” section. To play these files:

- Press **MENU** remote key to bring up on-screen menu. Navigate to Media Player, then use **◀/▶** or **▲/▼** keys to select “Recordings” option. Press **OK** key to enter Recordings main menu, or
- Press **ORANGE** key as the “Recording Playback” hot key to access “Recordings” section immediately in the normal operations.



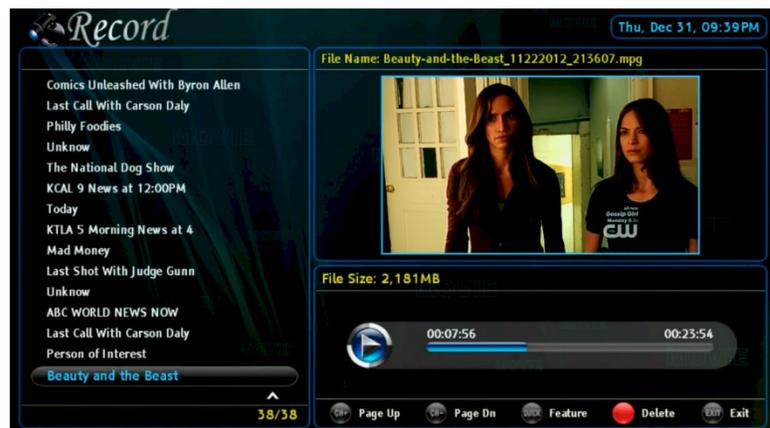
A new “Recordings” menu screen will come out. On the left side of the screen is the list showing all the recorded TV program names. On the top portion of the right side is the preview window for the TV program that is currently highlighted. The right side bottom portion shows a video time line and action 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 skipping or quick video jumping. Press this key once to generate a forward skip based on the re-set skipping time. Press and hold this key to create steady skipping time increments of continuous video forwarding.



- ⏮ **BACKWARD SKIP:** Use for commercial skipping or quick video jumping. Press this key once to generate a backward skip based on the re-set skipping time. Press and hold this key to create continuous skipping time decrements of video rewinding.
- ⏪ **RWD:** Rewind video quickly. Press this key multiple times to create 2x, 4x, 8x, 16x, 32x, 64x, 128, and 256x different rewind speeds.
- ⏩ **FF:** Fast Forward video quickly. Press this key multiple times to create 2x, 4x, 8x, 16x, 32x, 64x, 128, and 256x different fast forward speeds.



- When using the Media Player function to play back TV shows, 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.



Note: Please always use **GOTO** key as the ‘**BACK**’ or ‘**RETURN**’ key when needed.