

WAVE[®] BROADBAND

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DVR User's Guide



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Table of Contents

Control Live TV	3
Playback Controls	3
Remote Control Arrow Buttons	3
Status Bar	
Pause	4
Rewind	4
Fast Forward	4
Slow Motion	4
Instant Replay	5
Return to Live TV	5
SWAP Between Two Programs	5
Personal Video Library	5
Building Your Library - Recording Programs	5
One Touch Record	6
Record from Program Information	6
Manually Schedule a Recording	6
Recording Two Programs at Once	7
Record a Series	7
Modify the Series Priority List	7
Schedule Conflict Icons	8
Manage Series Priority List	8
View List of Scheduled Recordings	8
Modify Recording Options	9
Recording Notices	10
View Programs Stored in Your Personal Video Library	10
Guide Symbols to Know	11
Manage Your Personal Video Library	11
Troubleshooting	12

Digital Video Recorder (DVR) - Dual Tuner

Your Dual Tuner DVR has made recording and watching your favorite programs easier than ever. You have your own personal video library, stored on your digital set-top box, so you can watch them at your convenience.

Control Live TV

Using your **DVR** and your Digital Cable Remote, you can control live TV. Anytime you tune to a channel, the **DVR** begins making a temporary recording of whatever you're watching. So you can **PAUSE** if the phone rings, **REWIND** or **INSTANT REPLAY** a scene you missed and **FAST FORWARD** to skip what you don't want to watch. Your **DVR** will record up to two hours of live TV*.

The live TV recording is not a permanent recording, unless you actually save it to the **DVR's** hard drive. For live TV recordings, the temporary recording (buffer) will be erased if any of the following occur:

- You turn off your **DVR**.
- You switch to another program on the same tuner. When you change channels without using the **SWAP** function, your **DVR** begins to store the new program. It removes the previous program you were watching from the storage. (See **SWAP** section for additional information on page 5.)
- You watch more than two hours (less for HD). After two hours, the **DVR** removes the earlier minutes of the recording, so that only the most recent two hours are kept in the temporary storage.

Playback Controls

You can play back your video recordings using the Video Control Buttons.

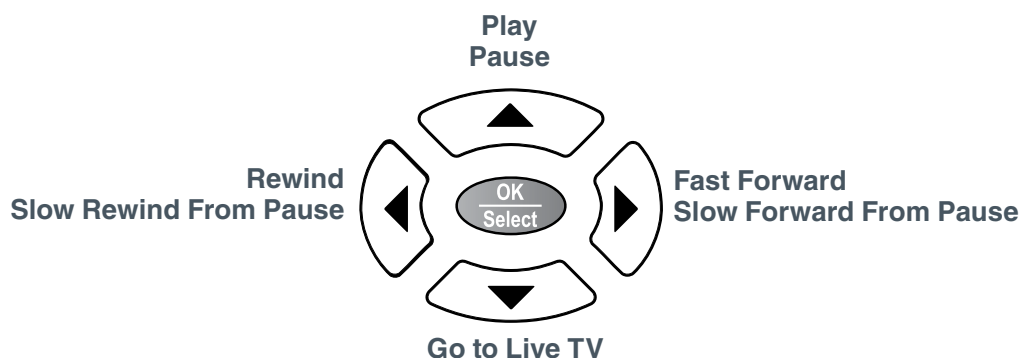


These buttons function like VCR controls. Plus, you have new **DVR** control features, like **Instant Replay** and **SWAP**.

*Note: Not all remotes may be equipped with **Instant Replay**, **SWAP** and **LIVE** buttons.*

Remote Control Arrow Buttons

The **▲▼◀▶** buttons on your remote control will control playback when you are watching a recording in progress or while watching a recorded program.






* Recording buffer (temporary storage) for each tuner will record as long as you stay tuned to the same channel.

Status Bar

The **Status Bar** appears whenever you **PAUSE**, **REWIND** or **FAST FORWARD** a live program. It also gives you information such as the title of the program you are watching, the source of the program and duration of time. The yellow position bar indicates where you are in the program. Green indicates the length of the program you are watching. White indicates the length of other programs available in the buffer. Red indicates that you are watching a recording in progress.





Pause

As you watch live TV and recorded programs, press **PAUSE**  and the programming on your TV screen instantly freezes. No more missing the climactic scene of a movie or the winning play of the game! For programs you are watching live, your **DVR** will remain in pause for up to 90 minutes*. Pressing **PAUSE**  more than once allows frame by frame viewing. Press **PLAY**  to resume normal play of the program from the point where it was paused.





Rewind

Want to review a portion of your live show? It's a snap with **DVR**. Press **REWIND** . Press it again up to 4 times to increase the rewind speed. REW, REW2, REW3 and REW4 will appear on-screen. REW is the slowest setting and REW4 is the fastest. Press **REWIND** a fifth time or press **PLAY**  to resume normal play.








Fast Forward

For programs you are watching live, **FAST FORWARD** can be activated if you have paused or rewound the program. Press **FAST FORWARD**  to move forward in the program. Press it up to 4 times to increase the fast forward speed. FF, FF2, FF3 and FF4 will appear on-screen. FF is the slowest setting and FF4 is the fastest. Press **FAST FORWARD** a fifth time or press **PLAY**  to resume normal play.

Note: You can only fast forward up to the point of live broadcast.



Slow Motion

Your **DVR** is equipped with slow-forward and slow-rewind functions to give you crisp and clear Slow Motion images. To activate slow-forward, press **PAUSE**  and then **FAST FORWARD** . To use slow-rewind, press **PAUSE**  and then **REWIND** . To return to regular speed, press **PLAY** .

* Pause capacity depends on video format; less than two hours for High Definition programming.



Instant Replay

With **Instant Replay***, you can go back to see the last play of the game or replay the last scene of your movie. Just press the **↺** button on your remote or **PAGE** ▼ on your remote to replay the last 15 seconds. Press the **↺** button on your remote or **PAGE** ▼ repeatedly to continue skipping back in 15-second increments.

Return to Live TV

Anytime you pause or rewind a live program, the show continues to be broadcast in real time. To return to live programming, press the ▼ button or the **LIVE** button*.

SWAP Between Two Programs

Because your **DVR** has two tuners, it can buffer (temporarily record) two programs at the same time – one on each tuner. The **SWAP** feature lets you toggle back and forth between the two live shows while giving you full control of both.

- While you are tuned to a program, press the **SWAP** button on your remote. You will change tuners.
- Now you can select an alternate program by changing channels or using the guide.
- Press **SWAP** again to toggle between the two programs.
- When recording two programs at the same time, on-screen prompts will ask if you wish to swap tuners. Select your desired recording preference.

*Note: The **SWAP** button is the key to keeping the buffer for both programs. If you change channels without using **SWAP**, you will lose the buffer. Additionally, in order for the **SWAP** function to work as listed above, your remote must be set to control the **DVR**. Press the **CABLE** or **CBL** button on the top of the remote before using **SWAP** for the first time.*

Personal Video Library

Using your **DVR**, you can build your own personal library of programs, movies, sports, TV shows ... whatever you want. Follow the steps below to build and manage your personal video library.

Tip **Using Parental Locks With DVR** - You can restrict viewing of recorded programs, just like any other program. If you schedule a recording for a program you have Locked, the program will be recorded, however, audio is muted and no video will appear while the program is recording. A restricted notice remains on-screen allowing you to enter your **PIN** to view the program during recording. Once the program has been recorded, you can access it from your list of recorded programs. Just enter your **PIN** to view it. To set up a **PIN** number, select **PINs Setup** from the Setup Menu and follow the on-screen prompts.

Building Your Library - Recording Programs




When recording two programs at the same time, on-screen prompts will ask if you wish to swap tuners. Select your desired recording preference.

You can set and schedule recordings three ways: one-touch record, record from a program info screen and by manually scheduling your recording.


* Not all remotes may be equipped with **Instant Replay** and **LIVE** buttons.



One-Touch Record

Press **RECORD**  on your remote any time while watching TV or while navigating through the guide. For programs airing now, recording begins immediately at the point you pressed **RECORD** . You can automatically schedule recordings for programs starting at a later time or date by pressing **RECORD**  while in the listings. Recording will start at the program's scheduled start time.

Record From Program Information


From the listings, highlight a program starting now or scheduled for a later time. Press the **INFO** button and you will see an information screen. Highlight the  **Icon** and press **OK** to start recording at the time the program is scheduled to start.

*Note: For more information on **Action Icons**, see the **Action Icons** section located in the "Using your Interactive Programming Guide" brochure included in your Welcome Kit.*



Manually Schedule a Recording

You can set a Manual Recording to automatically record a specific time and channel.

- Press the **DVR** button* on the remote, or select **DVR** from the **Main Menu**, then select **Set a Recording**.
- Select the start and end times and the day you wish to record and confirm your settings.
- A channel list will then appear, allowing you to select the channel to record.
- A **"Create a New Recording"** screen will appear. Select **Create a Recording** to confirm your settings or select the **Recording Options**  **Icon** for additional recording options.

***DVR** button not available on all remotes. You can access the **DVR Sub-Menu** through the **DVR** button on **Quick Menu**.

Record Two Programs at Once

The Dual Tuner **DVR** allows you to set recordings for two different programs that air at the same time. While recording two programs, you can watch and control either program up to the point of live TV by using the **SWAP** button on your remote. There are several ways to record two programs at once. Here are two basic examples:

While Watching a Show

- Press **RECORD** to record the program you are watching.
- Press **SWAP** to switch to the other tuner and find the second program you want to record.
- Press **RECORD** when you locate the second program you want to record.

From the Guide

- Highlight a program you want to record from any listings screen.
- Press **RECORD** to set up the first recording.
- Highlight the second program.
- Press **RECORD** to set up the second recording.
- When recording two programs at the same time, on-screen prompts will ask if you wish to swap tuners. Select your desired recording preference.



Record a Series

Your **DVR** lets you record multiple episodes of a program according to your preferences.

- Select the episode type to record, such as first-run only or all episodes.
- Specify how many recordings to save.
- Specify how long to save the recording – until you erase it or until space is needed.
- To access advanced series setup features like add minutes to the start and end times and specify which channels to record, select the Recording Options Icon to review all options.

Your Series Recordings will appear in the My Recordings list with the show title as its label. Multiple recordings of the same show will have the same label and will be listed beginning with the most recent recordings first as default. To change your view, use the ◀ ▶ on your remote to View by Date, View by Channel or View by Title.

You may also modify the priority assigned to a series using the **Series Priority List**. (See next section)



Modify the Series Priority List

To help you manage which series get recorded when there are scheduling conflicts, your **DVR** automatically creates a **Series Priority List**. The first series you set to record has the highest priority and is the program recorded in case of a conflict. If there are no conflicts, each additional series you set to record is added to the bottom of the list. You can easily change the recording priority of the programs so that the programs of your choice are recorded in case of a conflict.

- Select **DVR** from the **Main Menu** or **Quick Menu**.
- Choose **Series Priority List**.
- Highlight a program and use the **Page** ▲ or **Page** ▼ buttons on your remote to modify its priorities, then press the on-screen check-mark icon to confirm.

From here you can change your **Series Recording Options** by pressing **INFO** and selecting the **Options**  **Icon**.






*Note: If you want to record two series recordings instead of an individual recording that airs at the same time, you must delete the individual recording from the **Scheduled Recordings List** (See **Modify Recording Options** section on the opposite page).*

Manage Schedule Conflicts


If you schedule more than two recordings for the same time, you will see a **Scheduling Conflict** screen that allows you to choose between a previously set recording and the new recording that is conflicting. Individual recordings always take priority over series recordings when there are scheduling conflicts. In case of a scheduling conflict between two series programs, additional icons will appear at the bottom of the **Scheduling Conflict** screen to help you determine which program to record.



Scheduling Conflict Icons

-  **Return to the previous screen.**
-  **Record new program or series as shown.**
-  **Show conflicts when the new series is a high priority.**
-  **Show conflicts when the new series is a low priority.**
-  **Don't record new program or series.**



- To give your new recording the highest scheduling priority and to capture the most number of episodes for your new recording, select **High**. The screen will show you how many episodes of the new series will be recorded and which episodes of the old series will not be recorded because of the conflict.
- To move the new series back to the bottom of the scheduling priority list, select **Low** and the screen will refresh and give you revised results.
- Select the **Record**  **Icon** to confirm your new settings.

View List of Scheduled Recordings

- From the **Main Menu** or **Quick Menu**, select **DVR**.
- Select **Future Recordings**.
- See a list of all the programs you have scheduled to record.
- Select a title to cancel the **Scheduled Recording** or modify **Recording Options**.



Modify Recording Options




You can change your Recording Options at any time, as often as you like.





Change Options for Scheduled Recordings

From the Main Menu or Quick Menu

Select **DVR**, then select **Future Recordings** to see a list of your **Scheduled Recordings**. Highlight a program title and press **OK/Select** or **INFO**.



Select the  **Icon** from the Program Information Screen. Select the  **Icon** to change the **Recording Options** or select the  **Icon** to delete this program from your list of **Future Recordings**.


Use the     buttons on your remote to change **Recording Options**:



- Change the frequency of the recording, such as every day or once a week.
- Specify how many recordings to save.
- Set a Save Until parameter, either until you delete or delete automatically when space is needed.
- Change the start and end times in order to catch every minute of a program, even if it runs over.



From Listings

Select your **Scheduled Recording** in the listings; it will be indicated by the red dot in the **Instant Info**.

Press **OK/Select** or **INFO** and select the  **Icon** to change your options or delete the **Scheduled Recording**.

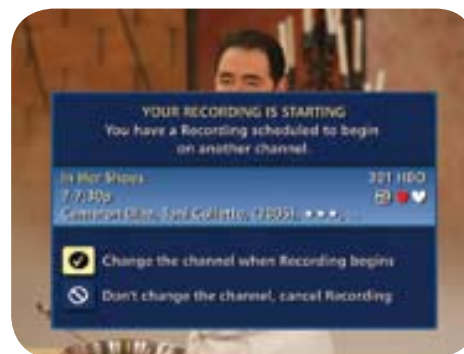
From here, select  **Icon** to cancel the recording, or select  **Icon** to see all the **Recording Options**.



Recording Notices

Recording Starting Notice

Before a Scheduled Recording begins, a notice will appear on-screen giving you the opportunity to confirm or cancel the Scheduled Recording. If you don't do anything when the recording is scheduled to start, the **DVR** will automatically tune to the channel and begin recording. Live TV programming that has been temporarily recorded will be erased once the Scheduled Recording starts.



If the **DVR** is off when a program is scheduled to record, it will automatically turn itself on to facilitate the recording and will, by default, mute the audio through the **DVR**. This will not affect the recording. To restore sound, press the **CBL** or **CABLE** button on the remote and then press **MUTE**.


If you decide to watch TV after the **DVR** has turned itself on to record a program, it will automatically turn itself back off when the recording is complete.



Recording Stopped Notice

Changing the channel during a recording will stop the recording. You will see a notice confirming whether you want to stop the recording and change channels or continue recording. You can **SWAP** to watch live TV while continuing a current recording, provided that the second tuner is not already recording another program. (See **SWAP** section on page 5 of this manual for more information.)







Swap Icon on Stop Recording Notice

The **SWAP**  icon will appear on the Stop Recording Notice screen if you attempt to change the channel while a recording is in progress.

- Select the  icon and press OK/Select to **SWAP** to view another channel on the other tuner.
- Select the  icon and press press **OK/Select** to stop the recording and change the channel.

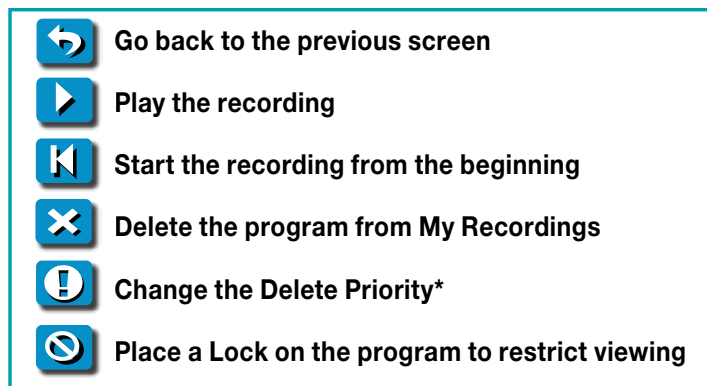
View Programs Stored in Your Personal Video Library

From the **DVR Menu**, select **My Recordings**. Use the   buttons on your remote to search through and highlight titles from your list of recorded programs. Press **OK/Select** or **INFO** to select the program.

- From the information screen, select  icon to resume play from where you left off or select  icon to restart from the beginning.
- To control playback while watching a recorded program, use either the Video Control Buttons or the arrow buttons on your remote. (See the "Playback Controls" section on page 3 of this manual for more information.)



Guide Symbols to Know – Recorded Program Information Screens





Tip DVR is not a long-term storage device. To maximize your storage space, review the contents of your library regularly and discard the recordings you no longer wish to save. See “Managing Your Personal Video Library” below.

Manage Your Personal Video Library

A recorded program remains in your personal video library until you decide to delete it unless you have it set to delete when space is needed. Your **DVR** will record and store up to 90 hours of standard definition programming and up to 20 hours of **High Definition** programming**. There are several options for making the most efficient use of **DVR** storage space:

To Delete Recordings

From a Recorded Program Information screen, select the  **Icon** to delete the recording. Select the  **Icon** to modify the **Delete Priority**, which gives you additional options such as deleting the recording when space is needed.

Recording Low and Full Notices

To help you manage your personal video library, **i-Guide** will advise you with an on-screen notice when the available memory gets low or full.

If recording space becomes full during a recording, the recording will stop. Make sure you have enough recording space to record the entire program before you begin to avoid missing part of the program.

Please note that you cannot record programs available **On Demand**. Additionally, **Video On Demand** utilizes one of the tuners in the dual-tuner **DVR**. You cannot record two programs and use **On Demand** simultaneously.



* **Delete Priority** is used to determine whether you delete the program or the program is deleted automatically when space is needed.

** Recording **HD** programming requires a **DVR** connection to a **HD** television. **DVR** record capacity will vary by device and is subject to equipment available at the time of install.

Troubleshooting

- Most issues can be resolved by simply power-cycling your **DVR**. Your recorded programs will NOT be erased as a result of a power loss.
- To power-cycle your **DVR**, unplug the power cord and leave it unplugged for 2 minutes. After 2 minutes, plug the power cord back in and press the power button on the **DVR** to turn it on.
- After a power-cycle, it may take the **DVR** up to one hour for all the menu features to be restored. However, the **LIST** button on the remote should work to access recorded programs once TV reception has returned.
- To check the connections of the **DVR** see pages 16 - 18 in the Wave Broadband User's Guide, available at: <http://www.wavebroadband.com/img/UsersGuide.pdf>.
- For further questions or concerns, please contact Wave Broadband Tech Support 24 hours a day at **1-866-WAVE-123** (1-866-928-3123) or visit **www.WaveBroadband.com**.

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