

The DCT6412 Front Panel

The DCT6412 front panel has 12 keys and an LED display. Use the keys to perform basic functions such as access the interactive program guide, navigate menus, and purchase **On Demand (OND)** and **Pay-Per-View** events.

Key	Description
1 LED	Displays the channel number or time of day. There are four indicator lights on the LED screen: <ul style="list-style-type: none"> • MSGS - the DCT6208 has received Messages for you to read • A/B - the RF bypass is active • ON - the DCT6208 is powered on • REMOTE - the remote control is in use
2 ▲▼◀▶ CURSOR	Moves the cursor around the program guide and menu screens.
3 MENU	Displays the Main Menu .
4 POWER	Turns the device on or off.
5 INFO	Displays the current channel and program information.
6 A/B	Use to manually enable the RF bypass function. You must have a cable-ready TV for this function to operate. (Optional Feature)
7 SELECT	Selects menu options, On Demand programming, Pay-Per-View events or programs from the program guide.
8 GUIDE	Displays the program guide.
9 CHANNEL + CHANNEL -	Changes the channels by moving up or down.
10 SMART CARD SLOT	Not currently enabled – intended for future use.

There are also inputs for a Universal Serial Bus (USB), audio/video jacks and a Smart Card slot. These inputs are for future applications under development and are not enabled on this unit.

The DCT6412 Back Panel

The rear panel of the DCT6412 consists of three types of interfaces - audio, video and data. The table following this drawing describes each connection and its use.



Important Safety Instructions

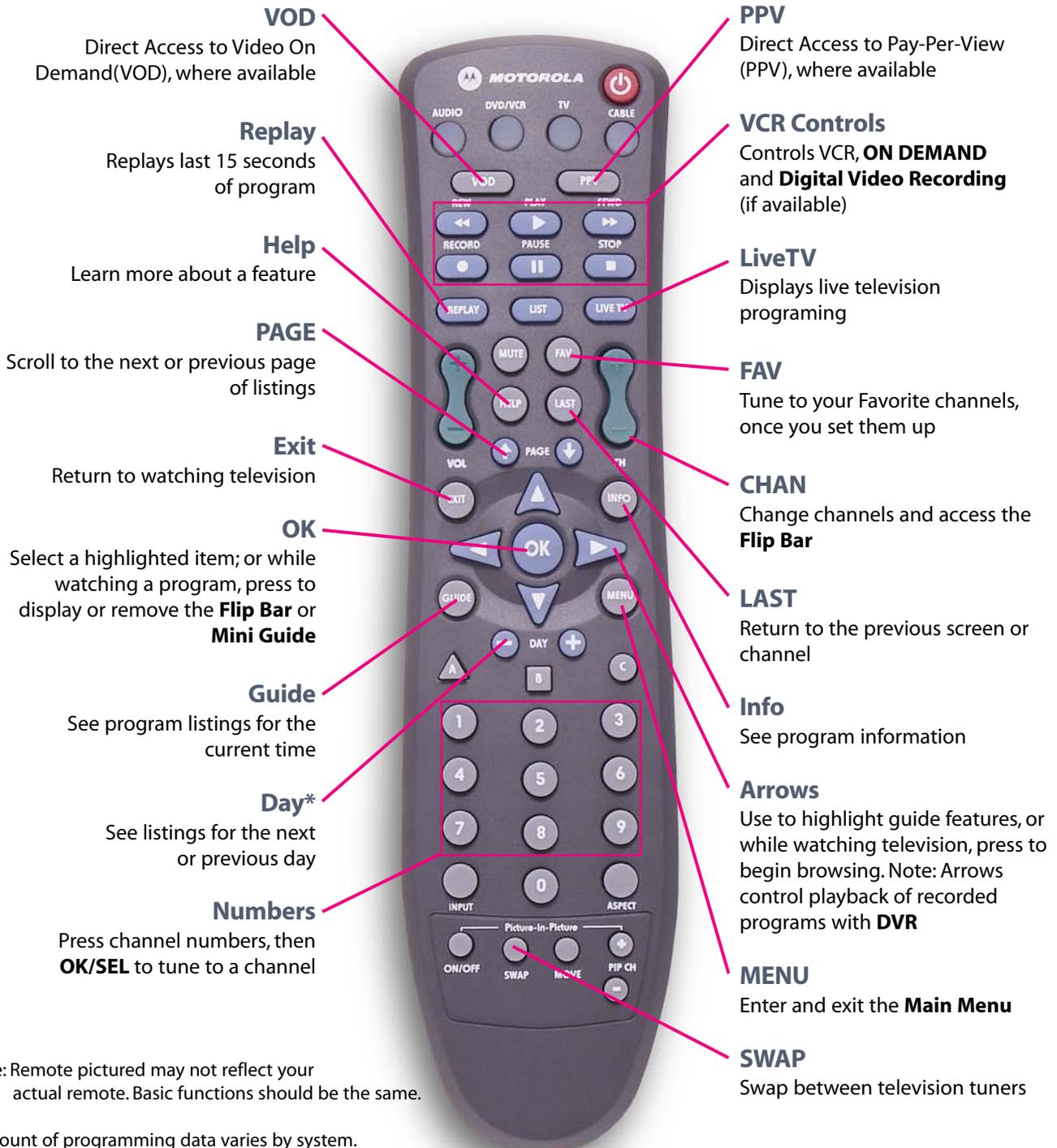
Please refer to the Motorola DCT6412 User Guide for complete safety and operating instructions. The Motorola DCT6412 has been designed to operate reliably in a well-ventilated household environment. Slots and openings in the unit cabinet are provided for ventilation. These openings should never be blocked. As such, do not place the product on a bed, sofa, rug, or similar surface.

- Position the DCT6412 with at least 2 inches of space above and on all sides.
- Do not block the slots and openings in the DCT6412.
- Do not place anything on top of the DCT6412.
- Do not position the DCT6412 in an enclosed space that would restrict airflow around the unit.
- Do not position the DCT6412 near any external heat source that could raise the temperature around the unit.

Basic i-Guide Navigation Tips

- * Yellow is always the highlight color. As you navigate listings using your remote, the highlight appears on screen to indicate your current selection.
- * Press the ▲▼◀▶ buttons on your remote to move the highlight.
- * Press **OK** to make your selection.
- * Press the **EXIT** button on your remote to return to watching TV.

Remote Control Features



Note: Remote pictured may not reflect your actual remote. Basic functions should be the same.

*Amount of programming data varies by system.

Reminders

With **i-Guide**, you can set **Reminders** so you don't miss shows you want to watch.

Setting Reminders

From a Program Information screen, highlight the  **Icon** from **Quick Menu** and press **OK**. Follow the on-screen prompts to confirm the **Reminder** or set **Reminder Options**.



Reminder Options

Reminder Options let you customize the frequency and timing for **Reminders**.

- Use the   buttons to set repeating **Reminders** that will appear Once, Once a Day, Once a Week, Mon-Fri or Sat-Sun.
- Determine the Start Time for the **Reminder** to appear on screen, up to 15 minutes prior to the program start.
- **Reminder** End Time enables you to extend the reminder period beyond the end of the program up to 2 hours after the program is over.
- When you set a **Reminder**, you have the option of bypassing locks* you placed on the program. You can then tune directly to the program from the **Reminder** without having to enter your **Locks PIN**, if you have set one up (See **Parental Locks** section for more information).

* This option appears only if you have already set a lock for that program.



Building Your Library - Recording Programs

You can set and schedule recordings three ways with **i-Guide**: one touch record, interactively by program and by manually scheduling your recording.

One Touch Record

Press **RECORD**  on your remote any time while watching TV or while navigating through the guide. Recording begins immediately at the point you pressed **RECORD**  for programs airing now. 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.

*Some remotes are equipped with Instant Replay and LIVE buttons.

Record From Program Information

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

Note: For more information on **Action Icons**, see the **Action Icons** section in this manual.

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:

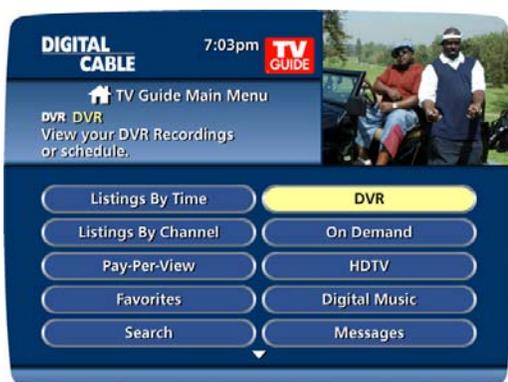
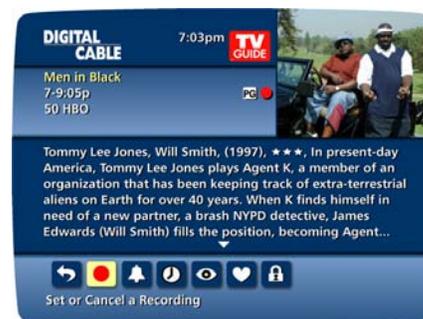
- Press Record to record the program you are watching.
- Press SWAP to switch to the other tuner and find the second program you want to record.
- Press Record when you locate the second program you want to record.

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.

Manually Schedule a Recording

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



Step 1: Select **DVR** from the **Main Menu**, then select **Set a Recording**.

Step 2: Select the start and end times and the day you wish to record and confirm your settings.

Step 3: A channel list will then appear, allowing you to select the channel to record. Select the channel you want.

Step 4: 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.

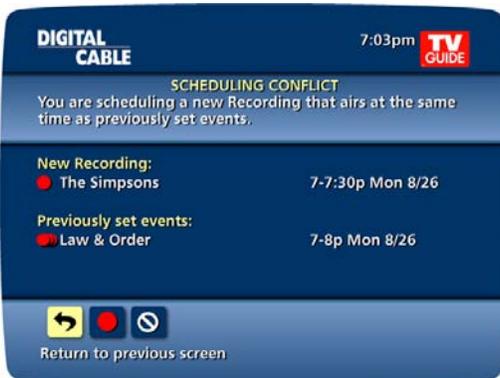
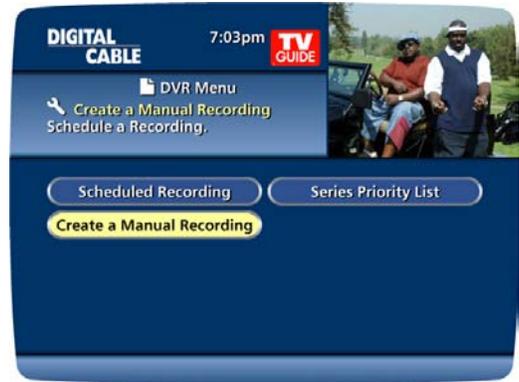
Record a Series

Your Dual Tuner **DVR** lets you record multiple episodes of a program according to your preferences. You can set the **DVR** to record only new (first run) episodes, first run episodes and repeats or all episodes.

When you set a recording from a Series Program Information screen, you'll have an additional icon on the preceding Recordings Overlay. Choose this **Create a Series Recording** Icon to specify your series recording options.

- Select the episode type to record, such as first run only, first run and repeats or all episodes.
- Specify how many recording 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 Setup  Icon to review all options.

Your series recordings' will appear in your **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 (arrow left/right) buttons on your remote to View by Date, View by Channel or View by Title.



Managing Scheduling 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.

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

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.
- Highlight a program and use the Page +/- buttons on your remote to modify its priorities.

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 Cancel a Scheduled Recording section).

View Your List of Scheduled Recordings

Step 1: From the **Main Menu** or **Quick Menu**, select **DVR***

* Menu label may vary

Step 2: Select **Future Recordings**.

Step 3: See a list of all the programs you have scheduled to record, select a title to cancel the scheduled recording or modify recording options.



Modifying Recording Options

i-Guide gives you flexibility to manage your personal video library. You can change your **Recording Options** at any time, as often as you like.

Change Options for Scheduled Recordings

From the Main Menu

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



Select the **R** Icon from the program information screen. Select **Wrench** to change the **Recording Options**, or select **X** to delete this program from your list of **Future Recordings**.

Use the **Up/Down/Left/Right** 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 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.

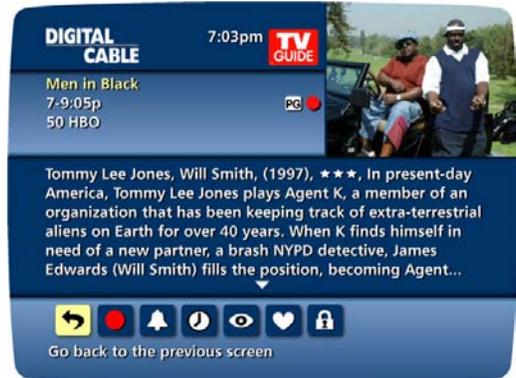


From Listings

Select your **Scheduled Recording** in the listings indicated by the red dot in the instant info.



Press **OK** or **INFO** and select the **Wrench** Icon.



From here, select **Close** Icon to cancel the recording, or select **Wrench** Icon to modify the **Recording Options**.

Guide 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" in this manual.



Managing 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 40 hours of standard definition programming and up to 40 hours of **High Definition** programming*. To make the most efficient use of **DVR** storage space, follow these guidelines:

To Delete Recordings

From the program information screen, select the **X** Icon to delete the recording, or select the **i** Icon to modify the **Delete Priority**. For example, you can tell the guide to delete the recording when space is needed.



Copy Recordings to A VCR Tape

After you watch a recording, decide to either erase it or keep it permanently by transferring it to a VCR tape.

When you copy recordings to a VCR tape, make sure that the recording is displayed on the TV screen for the entire time the recording is being copied. If you change channels or display guide screens during the copying process, your tape copy will contain these images and you will not have a complete copy of the recording.

1. Connect the **Cable Out** or **OUT 1 (TV)** connection on the back of the **DVR** to the **Cable IN** of your VCR.
2. Put a tape in your VCR.
3. Access your list of **Recorded Programs**.
4. Use the **▲▼◀▶** buttons on your remote to highlight a program from your list of **Recorded Programs**. Press **OK** to select a program.
5. From the Information Screen, select **▶** to resume play from where you left off or select **⏮** to restart from the beginning.
6. Start recording on the VCR when playback begins.
7. As the recording plays, it is taped to your VCR.

Note: Refer to your VCR User Manual for specific instructions on using your VCR.



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.

* Recording HD programming requires a DVR connection to a HD television.

On Demand (Optional Feature)

Q. Do my Parental Locks & Purchase PIN settings stay the same for On Demand purchases as with regular programs?

A. Yes. PINs and settings apply to **On Demand** ratings and purchases.

Q. What if I only watched 15 minutes of my On Demand program and didn't get to watch the rest before it expired?

A. You will have to order it again. Refer to the **On Demand** section in this manual for remaining rental and viewing time for more information on rental and viewing times.

Q. If I get to the end of a On Demand program and want to watch it again, can I restart at the beginning?

A. Yes, as long as your viewing period has not expired, you may watch it again.

Q. How do I return to watching an On Demand program after I've tuned to another channel?

A. Select **My Rentals** from the **On Demand Menu** and choose the program you want to resume watching. You can either begin watching where you left off by selecting **Resume**, or start over with the **Restart**.

Q. Some of the programs appear in the listings with a checkmark or a dollar sign next to the title. What does this mean?

A. Depending on the services your cable provider offers, you may see a checkmark or a dollar sign to indicate a program you have ordered is available for viewing.

Q. How many On Demand programs can I order at one time?

A. Typically, there is no limit on purchases. Check with your cable operator for system-specific ordering information.

Q. I tried to order an On Demand program and received an error screen that said, "Unable to Process Request." What does this mean?

A. The "Unable to Process Request" message occurs when the set-top box is unable to communicate with the **On Demand** equipment at your cable company. Try turning your set-top box off, and then turn it on again. If the message appears again, note the time it appeared and the action you took and call your cable operator.

Q. When I select a category from the On Demand menu, I receive a message that says, "No program listings available?"

A. If there are no listings for a particular category, this message will appear.

DVR (Optional Feature) and Digital Services

Q. How many hours of programming can I store on my DVR? What is the hard drive capacity?

A. The recording capacity depends on the video format that is being recorded. Your DVR can record up to 90 minutes standard definition programming or up to 20 hours of high-definition programming. The hard drive capacity is 120GB. See "Managing your Personal Video Library" section in this manual for more information.

Q. How many tuners does my DVR have?

A. Your DVR has two tuners so that you can, 1) record two channels at the same time, 2) record one and watch the other or 3) record two channels and watch a 3rd program from your DVR recordings library.

How do I return to live TV when I'm watching recorded programming?

Simply press the LIVE button on your remote.

Q. Can I record or watch two programs at the same time?

A. YES

Q. How do I record a Pay Per View (PPV) broadcast?

A. PPV broadcasts must be recorded manually; you cannot schedule automatic recording in advance. Follow your cable operator's instructions for viewing PPV content, then press Record on your DVR DCT6412 Cable Box.

How many other home entertainment components can be connected to my DVR DCT6412 Cable Box?

Three: your television, cable box, and one other component (VCR, DVD player, or audio).

Q. Do I have to connect my Cable Box DVR DCT6412 to a telephone or other data source?

A. The DVR DCT6412 gets all the information it needs from your cable signal, so that's the only connection required.

Q. I currently record programs on my VCR. How is a DVR different?

A. Your Cable Box DVR DCT6412 takes recording technology to a new level, capturing picture and sound digitally (for a superior result to tape-based recording) and allowing greater viewing flexibility. With the DVR DCT6412 you can PAUSE a broadcast while you're watching it, and restart it up to 2 hours later. And you can say goodbye to those annoying "what just happened?" moments when you're watching a movie — simply press INSTANT REPLAY to review the last 15 seconds, or REWIND to see a longer scene again. Yet you won't miss a moment of the action, because the DVR DCT6412 keeps recording forward while you pause, rewind or replay scenes. No VCR can do that!

Q. Can I adjust the quality of the video recording to conserve hard disk space?

A. No, the DVR DCT6412 records at a pre-set level to ensure consistently good results.

Q. How does the Parental Control (Locks) feature work?

A. Parental Control / Locks allows you to block programs, or types of programs, from being recorded. You can set blocks based on the program's Title or Rating, or you can block entire Channels. See Parental Locks on page 22 of this manual.

Q. How can I find programs I want to record?

A. Using i-Guide, you can search many ways: through the search menu, by programming genre, and category, by reviewing a listings screen, program information screen for other times or through an alphabetical search by Title. When you find something that sounds interesting, simply press RECORD. The DVR DCT6412 will automatically record that program for you.

Q. Can my cable operator or another company track what I record with my DVR DCT6412?

A. No. What you choose to record with the DVR DCT6412 is private.

Q. Can the DVR DCT6412 playback a high definition recording while another HD program is being recorded?

A. YES, in fact you can record two programs at once while watching a previously recorded program from the hard drive.

Q. Are there two record buttons; one for each tuner? How do you make the DVR DCT6412 record two programs at once?

A. You can set it for two recordings using i-Guide by selecting two different programs listed with overlapping times and pressing the record button or by manually scheduling programs which times overlap.

Q. What kind of programs can I record?

A. You can record both standard and high definition programs which are automatically interpreted by the DVR DCT6412. Note: Recording HD programs will take more storage space on your DVR.

Q. How much high definition programming can I save versus standard definition programming?

A. You can record up to 90 hours of standard digital TV or up to 15 hours of HDTV (depending on the transmission bit rate). Recording times may vary.

Q. Does the DVR DCT6412 support digital video interfaces?

A. Yes, it features both DVI and 1394-DTV digital interfaces.

Q. Does the DVR DCT6412 support external storage devices?

A. Yes, it includes an IEEE1394 port that will be functional in the future.

Q. I have a home theater system. Can I record a program in Dolby Digital™ 5.1 on my DVR?

A. As long as the program is being broadcast in digital audio, the DVR will record the digital audio portion. A Dolby Digital indicator will appear on the **Flip Bar** for programs that are broadcast in Dolby Audio.

Q. What is the picture quality of recorded programs?

A. The DVR records programs in the same quality in which they are broadcast. For example, programs broadcast in HDTV format are recorded in HDTV quality (if your DVR is connected to a High Definition television). Broadcast quality may vary.

Q. Can I record Digital Music channels?

A. Yes, you can record and playback Digital Music. However, the playback controls (Pause, FF and REW) are not functional for recorded digital music.

Q. Can I record On Demand and Pay-Per-View programs?

A. On Demand cannot be recorded with the DVR. You may record Pay-Per-View programs like any other program.

Q. Does the DVR automatically delete programs when the record space is full?

A. Only if you set it up that way. The **DVR** will automatically delete programs if you tell it to do so by setting the programs to be deleted when space is needed. When the record space is full, the oldest recordings that you have set to be deleted, will be deleted first. If you do not want the **DVR** to automatically delete certain recordings, you can set them so that they are only deleted by you.

Troubleshooting

Q. Why doesn't the set-top box respond when I press the keys on my remote?

A. Make sure your remote is in the Cable mode. Press the **CABLE** button on the remote.

Q. If the power goes out, do I need to reset my Parental Locks and Purchase PINs, Favorite Channels, Locks and Reminders?

A. No. These items will not be lost if the terminal loses its power.

Q. Nothing happens when the MENU button is pushed, but I can change the channel up and down.

A. If the terminal was just installed, it takes approximately 15-30 minutes for the guide to be downloaded to the set-top. If after 15-30 minutes nothing happens, unplug the terminal, plug it back in and wait another 15-30 minutes. If **i-Guide** still does not appear, contact your cable company.

Q. I can't see the edges of the i-Guide screens.

A. Select the **Adjust Screen Position** option from the **Setup** screen. Press the  buttons until the arrows on the screen are centered.

Q. The guide has locked up. Neither the buttons on the remote, nor the buttons on the terminal itself work.

A. Try unplugging the terminal and then plugging it back in. This will reset the terminal and allow for data to be downloaded. It will take some time for the information to appear. If there is still a problem after the information has appeared, call your cable company.

Q. I have no video, a snowy picture, or I cannot tune to any of the digital channels.

A. Make sure that all of the cable connections are secure and that the TV is tuned to the correct channel (3 or 4). Also, make sure you are actually controlling the cable terminal (press the **CABLE** button on the remote).

Q. Why won't my remote control respond when I press a button?

A. Go through this quick checklist to determine the problem:

1. Press the **CABLE** button on the remote to make sure it is in Cable mode. Try using the remote again. Move to Step 2 if necessary.
2. If the remote is still not functioning correctly, press the **CHAN**  button on the front of the terminal. If the channel changes, there is a problem with the remote control. The batteries or the remote control itself may need to be replaced.

Q. There are no listings in i-Guide, or the words "To Be Announced" appear in the listings screens.

A. This can happen if there has been a power failure or if the terminal was unplugged. Make sure everything is plugged in and running. Wait 15-30 minutes as the channels and program data start to fill in.

Q. I have a message on my screen that says ‘This feature is currently being restored.’ What does this mean?

A. This screen appears if you try to access a feature that is not available because the set-top box has not received all the necessary data. This most commonly happens following a power loss.

Q. I have a message on the screen that says “This channel should be available shortly.” What does this mean?

A. This screen will appear when you tune to a channel that is currently not available. If the channel is not available after 15-30 minutes, call your cable company.

Q. What do I do if I am stuck in a screen or menu I do not understand and want to get out?

A. You can always press the **EXIT** button to immediately return to watching TV. You can also press the **LAST** button to back up one screen at a time.

Q. The displayed listing information or pricing information is incorrect.

A. Although **i-Guide** checks all data thoroughly before it is sent to your home, programmers do sometimes change their schedules at the last minute without letting us know. Please report erroneous data to your cable company.

Q. What happens to my DVR recordings if my digital cable box temporarily loses power?

A. All recordings that were saved prior to the power loss are preserved, as well as future recording schedules. You miss only the recordings scheduled to be recorded while the power was out.

Note: If you experience continued problems with your cable box, remote control or program listings, please contact your local cable company.