4 D T V ™ **V I E W E R S H A N D B O O K**

General Instrument

INTRODUCTION

SECTION 1.0

Welcome to 4DTV. The Ultimate in Satellite Entertainment.

The 4DTV™ Model 920 receiver brings you the ultimate in entertainment value—more programming choices, better picture quality, and the freedom that only big-dish systems can deliver. When you add the 4DTV digital satellite receiver to your system, you'll be able to receive all four available satellite signals: analog "in the clear" (free) programming, analog VideoCipher® scrambled (subscription) channels, and all of the cutting-edge free and DigiCipher® II scrambled digital broadcasts.
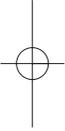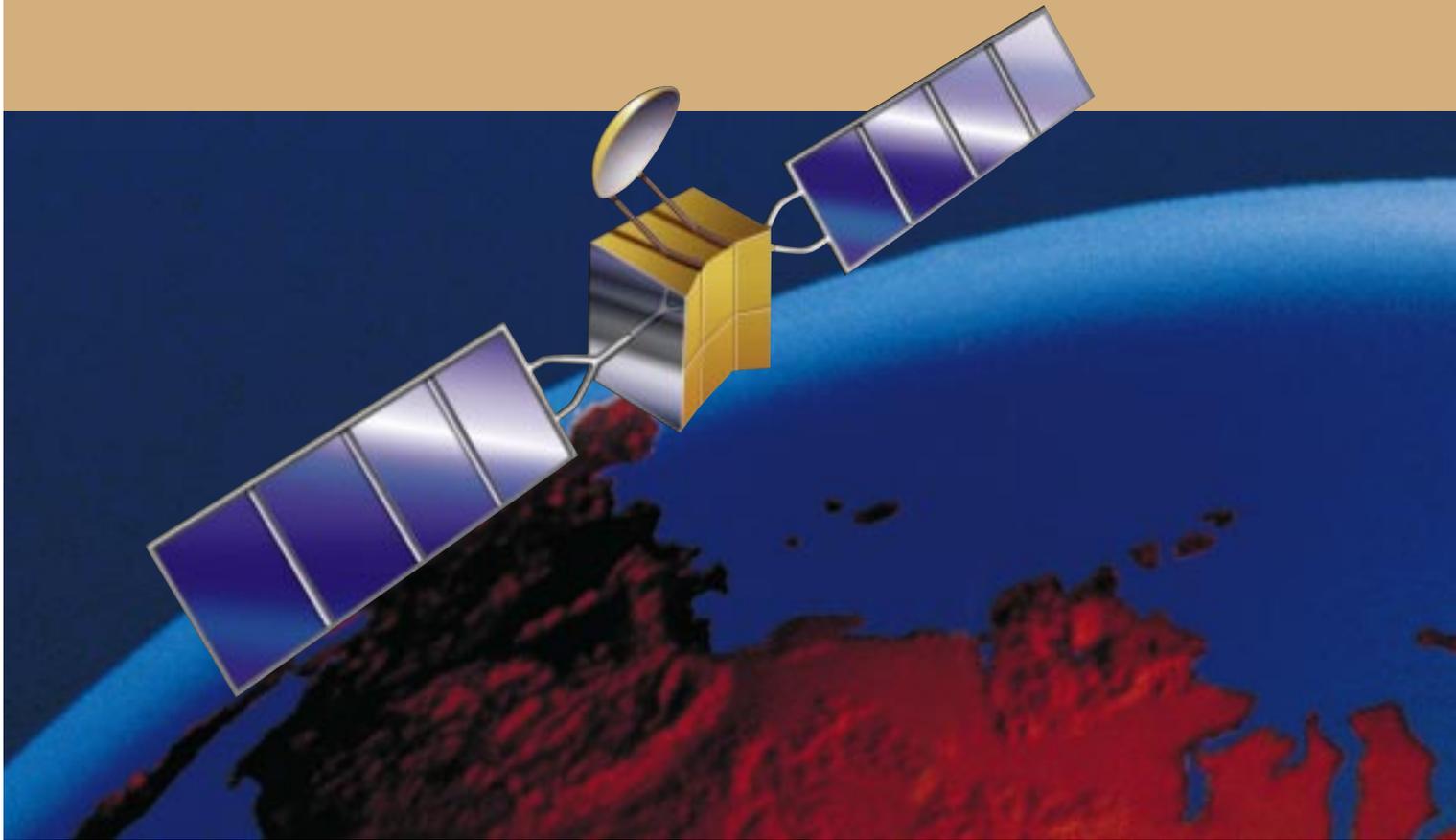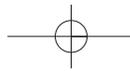
Beginning at the current level of more than 500 channels, you'll have more Pay Per View channels, sports, movies, music, special interest channels, adult entertainment, and international programming. And with multiple programming packages available, you'll be able to choose where you buy your programming— allowing you to shop around for the best price!

To make sure you are able to enjoy the benefits of your new 4DTV receiver, this *Handbook* explains all of the day-to-day features you are likely to use. It is a companion to the *4DTV Installation Guide* and the detailed *4DTV Reference Guide*. Current C-Band customers will already be familiar with features such as the VideoCipher module, but to take advantage of 4DTV's new menus and capabilities, we recommend reviewing this *Handbook*.

Sections

SECTION 2.0
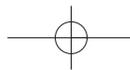
Using Your Remote

Program Your Remote Control The 4DTV remote control is set at the factory to control all of the 4DTV receiver functions, but in order to use it to operate your TV and VCR as well, you will need to "program" it for the brand of TV and VCR you own. Instructions for programming your remote control are included in the *Reference Guide.*

A Word About Modes To enable the 4DTV remote control to operate your 4DTV receiver, your TV, and your VCR, it has three main modes of operation: 4DTV mode, TV mode, and VCR mode. This means that when you press the 4DTV, TV, or VCR keys on the remote control, you enable it to control each of these devices, one at a time. Naturally, some of the remote control keys have more than one function, depending upon which mode you are using at the time. Keep this in mind as you read the descriptions for each remote control key. Also keep in mind that *some 4DTV functions are available only within 4DTV mode.* Among these special functions are access to the 4DTV menus through the OPTIONS key, use of the Interactive Program Guide (IPG) through the GUIDE key, and the ability to select a satellite by using the SAT key. In addition, you can assume that if you see a key on the 4DTV remote that you have never seen on a TV or VCR remote control, it is only useful for 4DTV functions and can only operate when the remote is in 4DTV mode.

If You Misplace the Remote Control If you ever misplace the remote control and need to use the various 4DTV menus, just press the MENU key on the Front Panel, and a special Menu screen will appear.

Key Functions

4DTV Press this key to change the remote to 4DTV™ mode so that it can control the 4DTV receiver.

TV Press this key to change the remote to TV mode so that it can control the TV.

VCR Press this key to change the remote to VCR mode so that it can control the VCR.

SOURCE Press this key to control the input source to your 4DTV receiver, your TV, or your VCR—depending upon the mode to which your remote control is set.
■ In 4DTV mode, it shifts between satellite and TV input.
■ In TV mode, it shifts between auxiliary cable, antenna, and video sources.
■ In VCR mode, it shifts between TV input and VCR input.

OPTIONS Press this key to exit any menu and display the Options menu. Press it again to remove the Options menu and return to watching 4DTV programs.

INTERESTS Press this key to exit any menu and display the Interests menu. Press it again to remove the Interests menu and return to watching a program.

◄▲▶▼ Press these keys to highlight selections from menu screens. If you are watching an analog channel (usually a channel below 100) in 4DTV mode, the ◄▶ keys move the antenna to the east or west, and the ▲▼ keys fine tune the picture.

VIEW Press this key to exit any menu and watch a program in 4DTV mode. If you are already watching a program, press this key to display program information.

VOL ∧∨ Press these keys to raise or lower the volume level on the TV.

Number keys These keys operate in different ways, depending upon which mode you are in:
■ If you are using the menus, press these keys to select a numbered option.
■ If you are watching a program in 4DTV mode, press these keys and ENTER to change channels. If the channel has three numbers, it will tune in immediately after you enter the third number.
■ In SAT mode, the keys numbered 1, 2, 3, 4, 5, and 6 function as *letter keys for the first key press after you press the SAT key.* This allows you to enter the letter portion of a satellite name.
■ In VCR mode, keys 7, 8, 9, and 0 operate the VCR's record, stop, pause, and play functions.
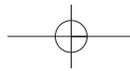
HELP Press this key to display the help screens. Press it again to turn off the help screens and return to watching a program in 4DTV mode. In VCR mode, press this key to rewind your VCR.

POWER Press this key to turn the receiver on or off.

SAT Press this key to display the Satellite Select menu to select a satellite.

GUIDE Press this key once to display the Interactive Program Guide (IPG), a second time to display the Mini-Guide, and a third time to return to program viewing.

GO BACK Press this key to return to a previous menu or to the last channel you were watching.

NEXT While you are watching a program in 4DTV mode, press this key to display the On Next program banner, which has program information (not available while viewing "clear" channels).

LAST CH Press this key to return to the last channel viewed.

INFO Press this key to display detailed information about the current program or a highlighted program in the IPG. Press it again to turn the information off.

CHAN ∧∨ These keys have several functions. If you are watching a program in 4DTV mode, press these keys to change to a higher or lower numbered channel. If you are using a menu, press these keys to change channels without removing the menu. If you are using the IPG, press these keys to move one screen up or down.

MUTE Press this key to mute the TV sound.

Letter keys The keys numbered 1, 2, 3, 4, 5, and 6 function as *letter* keys M, E, T, C, G, and S *for the first key press after you press the SAT key.* This allows you to enter the letter portion of a satellite name—for example the G in satellite G5. These keys return to functioning as number keys for the second key press so that you can enter the number portion of a satellite name— the 5 in satellite G5.

VCR Keys If you are in VCR mode, keys 7, 8, 9, and 0 operate the VCR's record, stop, pause, and play functions.

ENTER For convenience, there are two ENTER keys: If you are using a menu, press the ENTER key to select a highlighted option. In 4DTV mode press the ENTER key to tune in the channel whose numbers you have pressed. IN VCR mode, press the ENTER key on the bottom of the remote control to operate your VCR's fast-forward function.

SECTION 3.0

RECEIVER

Using Your Receiver

Most viewers find it more convenient to use the keys on the remote control rather than the keys on the Front Panel of the 4DTV receiver. But even though there are far fewer keys on the receiver, they still allow you to control most 4DTV functions. After plugging in your receiver, allow it to "warm up" for 30 seconds before using it.

Turn the power off (POWER key) when you are finished watching programs because the receiver can only move the dish to receive its nightly updates for the Interactive Program Guide (IPG) when it is off.

Tune Your TV to Channel 3 Make sure to tune your TV to Channel 3 or 4 (the channel you use for your VCR) when using the 4DTV receiver.

Front Panel Key Descriptions

Front Panel Display In addition to displaying the current time while not in use, this area displays the satellite name and current channel number while you are viewing programs. It also displays the letters SLP when the sleep timer is set, and if a timer is executing, two dashes revolve in a clockwise direction. A period flashes each time you press a remote control key.

VC This indicator lights up when the unit is receiving a VideoCipher signal.

MESSAGE This indicator lights up when there is a mail message waiting for you.

SAT/TV This indicator lights up when the unit is set to receive satellite broadcasts (controlled by the SOURCE key on the remote control).

TIMER A steady light indicates the timer system is on. The indicator flashes when the timer system is within two minutes of being activated.
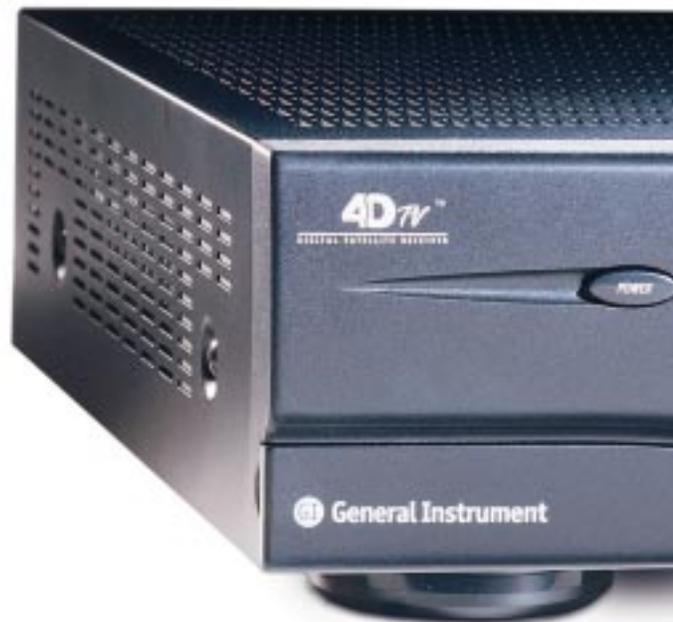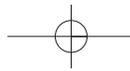
DC This indicator lights up when the unit is receiving a DigiCipher® II signal.

POWER This key turns on the power to the 4DTV™ receiver and enables you to watch programs in 4DTV mode.

ENTER Press this key to select a highlighted menu option.

◄▲▼► Press these keys to highlight selections from menu screens. If you are watching a program in 4DTV mode and are tuned to an analog channel (a channel below 100), press the ► key to move the antenna west and the ◄ key to move it east. If you are watching a program in 4DTV mode, press the ▲ and ▼ keys to fine tune the picture.

MENU Press this key to display the Menu screen. Press it again to turn off the Menu and return to a 4DTV mode program. Press this key to control the receiver if you cannot find your remote control.

GO BACK Press this key to return to a previous menu or the last channel viewed.

VIEW Press this key to exit any menu and watch a program in 4DTV mode. If you are already watching a program in 4DTV mode, press this key to display program information.
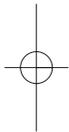
SECTION 4.0

Watching TV

Once you become accustomed to the various controls and features, you will spend most of your time enjoying the programs made available through 4DTV. The features described on this page will be available to you when the remote control is set to 4DTV mode — in other words, when you have pressed the 4DTV key and are viewing various programs.

How to Select Menu Options As you use the many 4DTV menus, you will be asked to *select* various options. When you see the word *select*, it is important that you understand what to do—whether you use the remote control or the keys on the Front Panel of the receiver:

■ *If you use the remote control*, there are two ways to select a menu option:

A. Press the ▲▼ arrow keys or the ◄► keys to highlight an option. Then press the ENTER key to select it.

B. If the options are numbered, simply press the number key for an option. You do not have to press the ENTER key.

■ *If you use the Front Panel of the receiver*, there is only one way to select a menu option. Press the ▲▼ keys or ◄► keys to first highlight an option. Then press the ENTER key to select the highlighted option.

Screen Appearance: Digital vs. Analog You will notice that when you are viewing analog (Videocipher®) channels, some headers, banners, and menus may have a different appearance than they do when you are viewing a digital (DigiCipher® II) channel. In general, analog channels are below 100, and digital channels are over 100.

Headers

Your viewing screen displays a variety of information about the programs you are viewing or plan to view. When you tune in a channel, a header appears at the top of the screen. It displays the following information from left to right:

■ Interests—Until you identify your viewing interests (covered later in this *Handbook*), nothing appears on the left side of the header. After you select an interest such as movies, sports, Pay Per View, or music/radio, the name of the interest you selected will appear on the left side of the header.

■ Channel name—HBO-W, ENCORE, TBS, etc.

■ Satellite—G5 for example.

■ Channel number—A number from 1 to 999.

■ Message—A mailbox icon appears if a message is waiting for you.

■ Time—The current time automatically appears on the right side of the header.

Banners

Program banners appear at the bottom of the screen:

■ On Now banner—When you tune in a channel or press the VIEW key, this banner displays the current program title, start and end times, and rating icon. Press VIEW to remove the banner.

■ On Next banner—While you are viewing a channel, if you press the NEXT key, the On Next Banner displays the next program's title, start and end times, and ratings icon. Press NEXT to remove the banner.

■ During VideoCipher® broadcasts, the Now Banner and Next Banner appear in a box in the lower middle part of the screen. Wait 5 seconds for it to disappear.

INFO Key

■ To obtain detailed information about the current program, press the INFO key.

■ To obtain detailed program information about the next program on a selected channel, press the INFO key and then press the NEXT key or the ► key. If the On Next Banner is already displayed at the bottom of your screen, just press the INFO key to display more detailed information about the next program. Press the ◄ key to return to the information display for the current program.

Power Off at Night

Turn the power off (POWER key) when you are finished watching programs because the receiver can only move the dish to receive its nightly updates for the Interactive Program Guide (IPG) when it is turned off.

Interest   Channel Name   Satellite   Channel Number   Message   Time

Movies   HBO G5 456   12:04 PM

Grand Canyon $3.99
12:00 - 1:27 PM   PPV SAP   R, AL

How to Change Satellites

G5 ✓ To change to a different satellite when you are watching a program, press the SAT key. The Satellite Select menu will appear, and the current channel name, satellite name, and channel number will be displayed near the top of the screen. The current satellite will have a check mark in the list of satellites in the middle of the screen.

■ To select a satellite, press the ◀▲▼▶ keys to highlight the satellite you wish to select, and then press the ENTER key.

■ You can also select a satellite by directly entering the letter and number of the satellite name using the remote control letter/number keys. The first key press will register a letter; the second press will register a number. Then press the ENTER key.

■ If you press the SAT key when you are viewing the Channel Locks, Favorite Channels, Set Timer, IPG, or Mini-Guide, a special menu with a satellite list will appear—allowing you to obtain information about the satellite without actually moving the dish.

■ To remove a satellite, refer to step 4, screen 9 of the *Installation Guide*— in the section entitled "You Chose Satellite NN Prompt Screen (Changing/Removing Settings)."

SECTION 5.0
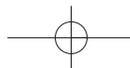
Interactive Program Guide (IPG)

The Interactive Program Guide (IPG) gives you instant access to current and future program information—channel by channel—while you watch TV. It's an onscreen "window" that displays a 90-minute block of scheduled programs, and it's even a starting point for purchasing IPPV programs and setting timers.

How to Display the IPG

■ Press the GUIDE key once for a full-screen IPG (displays 6 channels at once).

■ Press the GUIDE key a second time for the Mini-Guide (displays 2 channels so you can continue viewing as you browse through the Mini-Guide).

■ Press the GUIDE key a third time or press the VIEW key to return to watching programs.

■ Press the GO BACK key to return to the menu last viewed (or return to TV viewing).

How to Use the IPG

■ Press the ▲▼ keys to display different channels.
■ Press the ◄► keys to scroll backward and forward by half-hour increments.
■ Enter a particular channel number to display that channel at the top of the screen.
■ Press the ENTER key to tune to a current program that is highlighted. If you press the ENTER key on a future program, a detailed program information banner appears (discussed later in this section).
■ Press the INFO key to display more detailed information.
■ Press the SAT key to display a satellite list. Then select a satellite, and the IPG will display its programming schedule without moving the satellite dish.
■ Press the CHAN ∧∨ to page up and down through the IPG (moves up and down one channel at a time in the Mini-Guide).

Full IPG Screen

The header (top of screen) displays the current Interests menu setting (sports, movies, etc.) on the left side and the date and time on the right. The line below the header displays the day of the program information being viewed. The rest of the screen displays the channel names, satellites, and numbers on the left and the program names on the right—along with information icons. The full IPG screen displays 6 programs.

Mini-Guide

The Mini-Guide displays only two program selections and allows you to continue viewing a program as you view the program schedule.
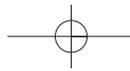
How to Set Your Display for the Full IPG or Mini-Guide

Some viewers prefer to use the full IPG; others prefer the Mini-Guide. You can change the IPG setting so that it always displays either the full IPG or the Mini-Guide. To make your choice:

■ Display the Options menu (press the OPTIONS key on the remote control).

■ Select option 2 (Guide & Favorites). The Guide & Favorites menu appears.

■ Select either Full or Half for option 1 (Guide Size). A check will appear in the selected box. (If you selected Half, from now on when you press the GUIDE key once, the Mini-Guide will appear; if you press it twice, the full IPG will appear.)

SECTION 5.0

Interactive Program Guide (IPG)

How to Display a Future Day and Time on the IPG

You can always scroll ahead with the IPG, but if you want to immediately look at program offerings for another day or a specific time, you can jump ahead without scrolling. To jump to a specific date and time:

■ Display the Options menu (press the OPTIONS key on the remote control).

■ Select option 2 (Guide & Favorites). The Guide & Favorites menu appears.

■ Select option 2 (Set a Future Day & Time for the Guide). A Choose Day menu appears.

■ Select which day of the IPG you would like to display. A Choose Time menu will appear.

■ Select the time of day for the IPG programming you would like to view.

After you have finished reviewing the IPG information and have returned to your program viewing, remember that the next time you press the GUIDE key, the IPG will always return to displaying the current day and time. If you press the GO BACK key, you will return to the previous screen or the program you were watching.

How to View the IPG by Interests

You can also focus the IPG display to a list of your favorite channels or to special programming interests (such as sports or movies). To select an interest:

■ Press the INTERESTS key. The Interests menu will appear.

■ Select an interest by highlighting one of them and pressing the ENTER key.

■ The IPG will appear and display only programs that pertain to the interest (such as sports) you have selected. For example, if you selected a list of favorite channels (Favorites A or Favorites B), the IPG will display only the list of favorite channels you have selected. (Refer to the *Handbook* section entitled "Setting Favorite Channels" to select the channels you want to include in your Favorites list.)
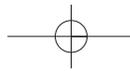
Detailed Program Information

info Press the INFO key to display a program information banner that has a detailed description of the program, ratings, purchasing information, and information icons.

Set Timer for Future Program

Using the IPG, you can set a timer to automatically display a program at a future time and date. If you are viewing a programming list for a future date or time on the IPG, press the ENTER key or the INFO key while a program is highlighted to display the detailed program information banner. This banner includes a Timer button. Select the Timer button by pressing the ENTER key to display a Confirm Timer screen. More information on timers is in the *Handbook* section entitled, "Options: Setting Timers." Press INFO again or the GO BACK key to turn off the detailed information and return to the IPG.

SECTION 6.0
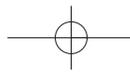
Channel Surfing for Interests & Favorites

You have the choice to scan every channel when you "channel surf." But to help you locate channels and shows of specific interest to you, 4DTV has an Interests menu that helps you to focus your channel surfing.

■ By using the Interests menu, you can quickly locate programs according to a particular theme such as movies, sports, PPV, music/radio, news/education, or network series.

■ You can also surf through two lists of favorite channels (Favorites A and Favorites B) and surf only the channels on these lists.

How to Display and Use the Interests Menu

■ Press the INTERESTS key on the remote control. The Interests menu appears.

■ To select an interest (for example, All Programs, Favorites A, Favorites B, Network Series, News/Education, Movies, Sports, Pay Per View, or Music/Radio), just highlight one of them and press the ENTER key. The IPG will appear and display channels or programs that pertain to the interest you selected. Remember that once you have selected one of the options (or interests) from the Interests menu:

A. The information you see in the IPG will be limited to programming that matches the interest you selected. If there is no programming that matches the selected interest, a message will appear.

B. Once you surf through the programming on one satellite you can switch to another satellite and continue surfing according to the interest you selected.

C. You will notice that while you are watching a program or channel, the left side of the header will display the interest you selected. If there is no programming matching the selected interest, a message will appear.

■ Press the INTERESTS key again to display the Interests menu and change your selection.

1 **All Programs** Each time you turn on the 4DTV™ receiver, it automatically returns to the All Programs setting. When this option is selected, you will be able to scan for all programs while channel surfing or when you are using the IPG.

2/3 **Favorites A or Favorites B** If you select Favorites A (or Favorites B), you will be able to limit your channel surfing and the IPG information listings to channels that are listed in the Favorites A (or Favorites B) list. If you have not yet made a list of favorite channels, a message will instruct you to do so. (Refer to the *Handbook* section entitled, "Options: Setting Favorite Channels," for instructions about how to create a list of favorite channels.)

4 **Network Series** If you select this interest, you will be able to channel surf exclusively for network series programs.

5 **News/Education** If you select this interest, you will be able to channel surf exclusively for news/education programs.

6 **Movies** If you select this interest, you will be able to channel surf exclusively for movies.

Interests   12:34 PM

1. **All Programs**

2. Favorites A   6. Movies
3. Favorites B   7. Sports
4. Network Series   8. Pay Per View
5. News/Education   9. Music/Radio

Press GO BACK to return.
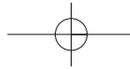
7 **Sports** If you select this interest, you will be able to channel surf exclusively for sports programs.

8 **Pay Per View** If you select this interest, you will be able to channel surf exclusively for Pay Per View (PPV) programs.

9 **Music/Radio** If you select this interest, you will be able to channel surf exclusively for music/radio programs.

SECTION 7.0
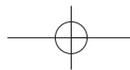
Instant Pay Per View Events (IPPV)

With 4DTV, you have opportunities to purchase Pay Per View hit movies, concerts, live sporting events, or adult entertainment. You can make a purchase in two ways: (1) telephone ahead to the service provider to purchase a Pay Per View (PPV) program, or (2) use the Instant Pay Per View (IPPV) screens to purchase a program through your 4DTV receiver. This section explains how to purchase IPPV events. The prices shown in these examples are purely for demonstration.

PROGRAM TITLE

COST:
(+APPLICABLE TAXES)
TIME STARTS IN:

"ENTER"

VideoCipher® Current Program Purchase Screen

How to Purchase an IPPV Event

■ Tune to a channel that displays DigiCipher® II IPPV programs.
■ Follow the instructions on the Purchase menu.

Free Preview Period There is a free preview period at the beginning of an IPPV event when you can watch the program without purchasing it. You can purchase a program or cancel your purchase anytime during the free preview period.

Passwords You may be asked to enter your password before you can view the program. If you forget your password or the system does not accept it, you may have to call your distributor for assistance.

Videotaping Options You may be unable to videotape some programs, or you may have the option of paying a higher price for the opportunity to tape the program on your VCR.

Purchase Screen

There are a variety of purchase screens, but most of them have the following elements:
■ The header (top of screen) will have the screen name, viewing interest (if one is selected), channel name, satellite name, channel number, a mailbox (if you have an unread message), and the time.
■ If the program is within the free preview period, video will appear in the middle of the screen.
■ The screen will display the program name, the start and end times, icons, ratings, and the price of the program.
■ There will be a purchase button, instructions to press the ENTER key, or instructions to call the program provider.
■ Follow any additional instructions. For example, you may need to enter a password, or you may be unable to purchase a program for another reason.
■ A confirmation screen will appear so that you can verify your purchase. You may be asked to enter a password and press the ENTER key.

Watch ▭ $3.99 + tax
Confirm Purchase

Press ENTER to confirm your purchase.
Press GO BACK to change or cancel.
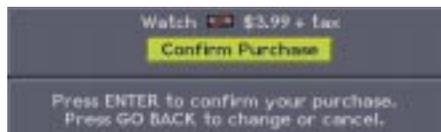
How to Cancel a Purchase

You may only cancel a purchased program (that has been confirmed) during the free preview period.
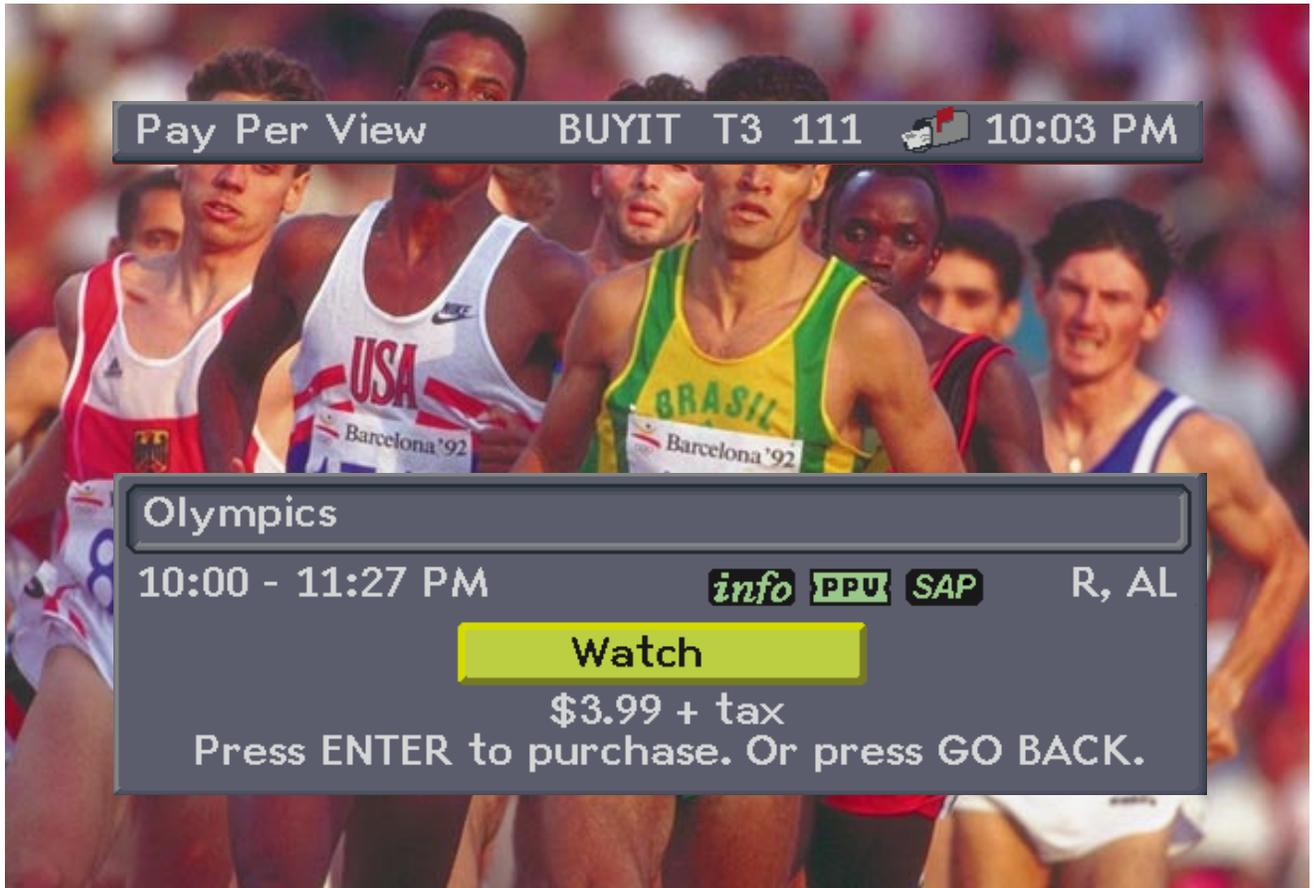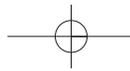
■ Press the VIEW key or the NEXT key. A cancel screen will appear. Press the ENTER key to cancel the purchase.

■ You may also cancel a program by changing the channel during the Free Preview period.

Purchase the Next Program

You will be unable to purchase a program if you have missed a significant portion of it, but you will be able to purchase the next program through the screen that appears. After you have purchased the next program, a countdown timer displays how much time remains before the program begins.

Purchase a Future Program

You can pre-purchase a program that starts hours or days ahead by using timers that are explained in the section of this *Handbook* entitled "Options: Setting Timers."

Changes in Purchase Options

If a program provider changes the purchase options after you have pre-purchased a program using a timer, and if the change affects your purchase, your purchase will be canceled, and you must buy the program again.

PAY PER VIEW

Instant Pay Per View Events (IPPV)

"CORRINA, CORRINA"
ON THEATER-1 'PG'

RATING: PG
COST: $3.99
(PLUS APPLICABLE TAXES)

STARTED AT : 10:00 AM
TIME LEFT: 1:27:41
(PRESS ENTER TO PURCHASE PROGRAM)
(OTHERWISE CHANGE CHANNEL)

VideoCipher® Next Program Purchase Screen

PURCHASE HISTORY
11-APR-95   10:30PM $3.99
              "THE CLIENT"
ON THEATER-9 'PG13'

11-APR-95   3:30AM $1.99
              CHINATOWN
              ADAM & EVE

11-APR-95   2:30AM $3.99
              "TRUE LIES"
ON THEATER-9 'R'
(PRESS ← OR → FOR MORE PURCHASES)

VideoCipher® Purchase History Screen

How to Purchase a Program While Viewing an IPPV Program

To purchase an IPPV program while you are viewing another IPPV program:
■ Press the GUIDE key to display the Mini-Guide.

■ Select the program you wish to purchase. If the selected show is currently on, the channel will switch to the selected program.
■ Press the ENTER key, and a miniature Confirm Purchase screen will appear. Press the ENTER key to confirm your purchase.

How to Display Your Purchase History

The List Purchases option allows you to review a list of previously purchased IPPV programs.
■ Display the Options menu (press the OPTIONS key on the remote control).
■ Select option 6 (Change System Settings).
■ Select option 1 (List Purchases). The Purchases menu will display a list of purchases. If it displays more than two programs, press the ▼▲ keys to scroll through them. Press the GO BACK key to exit this menu.

Purchase List

This list shows the date, time, cost, and name of each purchased program. The most recent purchase is at the top of the list. If you wish to display previous purchases, press the ▼▲ keys to scroll through the list. A telephone icon indicates that the purchase was reported to the service provider.

VideoCipher® System Purchases

The purchase list only displays DigiCipher® II system purchases. To obtain information about VideoCipher® system purchases, press 9 on the remote control. If you are currently tuned to a VideoCipher system channel, the VideoCipher Setup menu will appear. If you are not tuned to a VideoCipher system channel, follow the instructions on the screen that appears. Refer to the *Handbook* section entitled "Options: Overview of Options" for further instructions about the VideoCipher Setup menu.

Purchases   12:34 PM

Account Status   Active

You are able to purchase movies, events & other programs.

Oct 24, 1996   4:00 PM $ 6.00
The Hand that Rocks the Cradle

Oct 25, 1996 $99.00
Sports Package

For VideoCipher® Setup, press 9.

Press GO BACK to return.
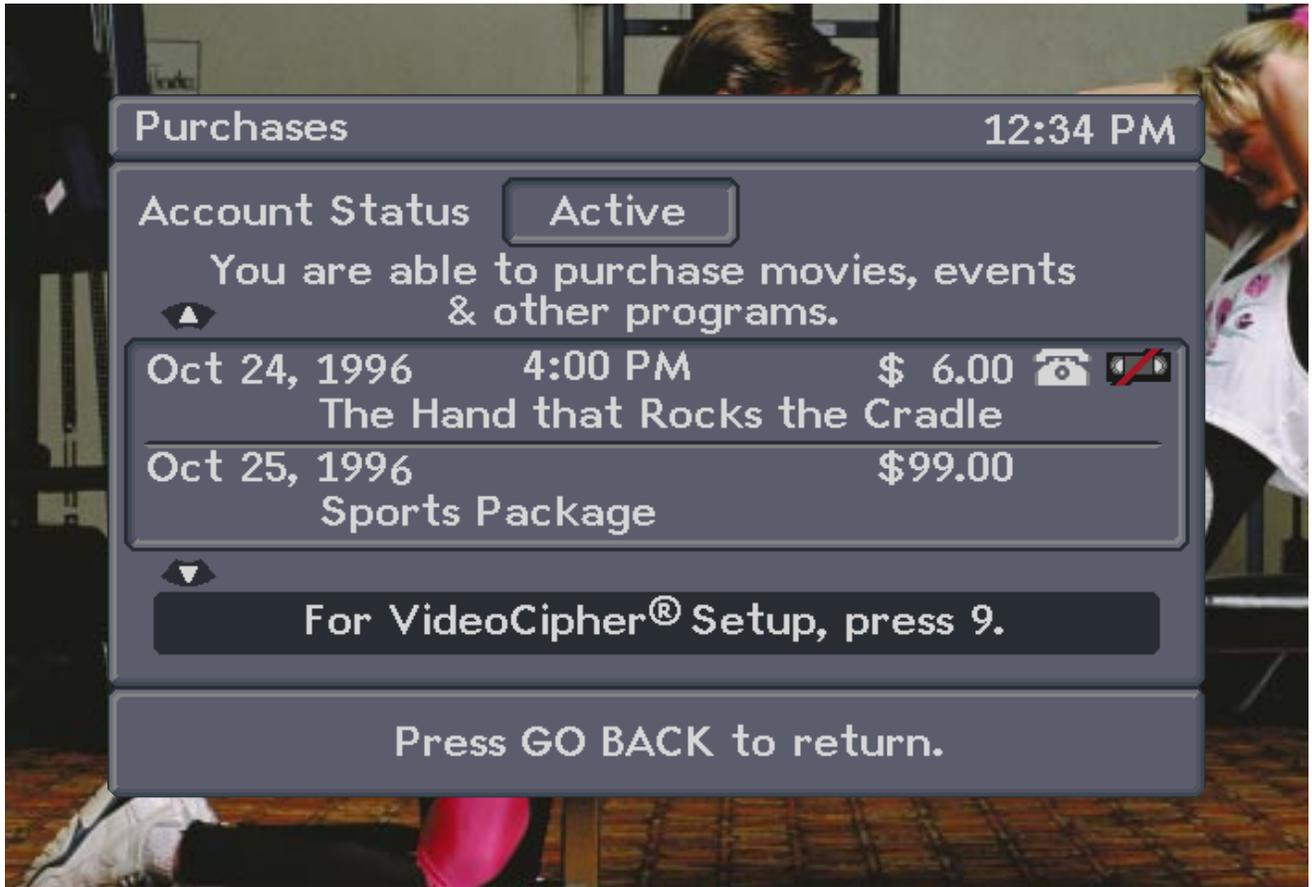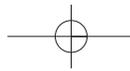
Account Status

If you are qualified to make IPPV purchases, the Account Status option will display the word Active. If the word Inactive appears, you cannot purchase an IPPV program. You will need to call your program provider to discuss your account if it is Inactive.

Credit Message

Below the Account Status is a message that explains your credit status.

SECTION 8.0
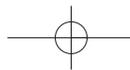
Overview of Options

What Is the Options Menu? The Options menu is your doorway to a series of menu screens that allow you to set up various 4DTV features.

How to View the VideoCipher Setup Menu This option allows you to display the VideoCipher Setup menu. The VideoCipher Setup menu allows you to change features that affect only VideoCipher channels.

■ Press the 9 key. The Setup menu will appear. (If you are not tuned to a VideoCipher channel, a message screen will inform you about the nearest VideoCipher channel.)

■ You can also gain access to the VideoCipher Setup menu through the following menus: Mailbox, Parental Control, List Purchases, and Set Timers.

SETUP
1. UNIT
2. MESSAGE
3. VIEW
4. SETUP OPERATIONS

VideoCipher Setup Menu

How to Display and Use the Options Menu

There is one procedure for displaying the Options menu if you are using the remote control, and there is another if you are using the keys on the Front Panel of the receiver.

■ *If you are using the remote control,* press the OPTIONS key. The Options menu will appear.

■ *If you are using the receiver,* press the MENU key. When the Menu screen appears (see below), press the ▲▼ keys to highlight Options, and then press the ENTER key. The Options menu will appear.

Menu	10:11 PM
GUIDE	
SAT	
INTERESTS	
OPTIONS	

Use ◊ & Press Enter
Press GO BACK to return.
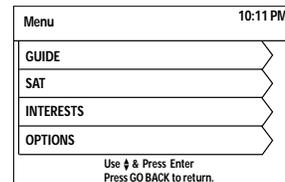
The following list will give you a broad overview of these menu options and the features they control:

1 **Open Your Mail** This option lets you read personal, programming, or promotional messages. Look for the mailbox icon on your viewing screen.

2 **Set Guide & Favorites** This option allows you to create a list of favorite channels that can be used for selective channel surfing and to limit the programs displayed on the IPG to a particular group.

3 **Set Parental Control (and Passwords)** Parental Control features and passwords allow you to control the programs, channels, and subject matter that can be viewed with the 4DTV™ receiver.

4 **Set Timers** This option allows you to set a timer to view (or tape) a program at a future time and day up to one year in advance.

5 **Adjust Picture** This option, which is addressed in the *Reference Guide,* allows you to fine tune both analog channels (channels below 100) and digital channels.

6 **Change System Settings** There are a variety of topics available through this menu option. Instructions for some of these topics are in the *Reference Guide* or the *Installation Guide.*

Options   **12:34 PM**

1. Open Your Mail

2. Set Guide & Favorites

3. Set Parental Control

4. Set Timers

5. Adjust Picture

6. Change System Settings

For VideoCipher® Setup, press 9.

Use ⬍ & then press ENTER. Or, press 1-6 to
choose option. Press GO BACK to return.
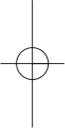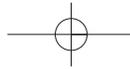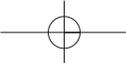
OPTIONS

Opening Your Mail

Your 4DTV receiver is able to display a variety of messages that are sent to it. Some messages will be displayed on your screen as soon as they arrive, but others are stored in your mailbox for you to retrieve. If a message is waiting in your mailbox, the mailbox icon will appear on your screen header while you are watching a program.

Message Indicator for VideoCipher® Channel If you are watching a VideoCipher channel, a * will appear at the top of the screen instead of the mailbox symbol.

How to Display the Mailbox Menu

- Display the Options menu.
- Select option 1 (Open Your Mail). The Mailbox menu appears.

Mailbox Menu

The Mailbox menu displays a list of numbered message titles, each with a date. If you wish to read the entire contents of a message, select the message (while the message is highlighted, press the ENTER key), and a Message screen will appear within the Mailbox menu.

Mailbox Message Screen

The Message screen contains the complete message. Once you read the message and wish to erase it, press either the ENTER key or the GO BACK key. An Erase Message prompt screen will appear. Some messages will be automatically erased after you read them. Such messages will have the following statement in the instructions at the bottom of the screen: "This message will erase after being read."

Mailbox   12:34 PM

Happy Thanksgiving. Special Offer. Buy two movies about Pilgrims and get the third movie absolutely free! This offer won't last long so buy your movies today.

Press GO BACK when finished.
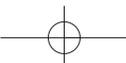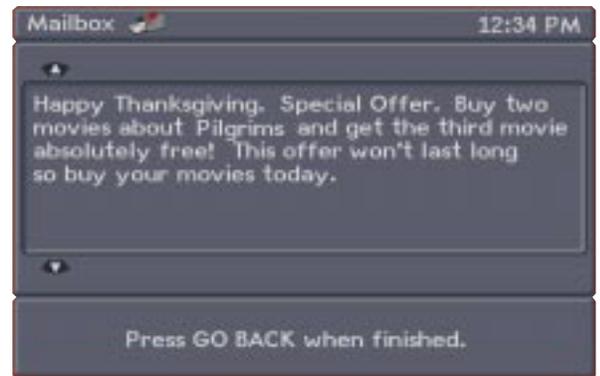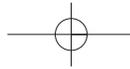
Erase or Keep Message Screen

When the Erase Message prompt screen appears within the Mailbox menu, it allows you to select from two options.

■ Select Erase Message to erase the message and return to the Message List menu.

■ Select Keep Message to save the message and return to the Message List menu.
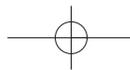
OPTIONS

Setting Favorite Channels

With this option, you can create a list of favorite channels using the Favorite Channels menu. Once you create this list, you will be able to focus your channel surfing and find programs more quickly.

How to Display the Favorite Channels Menu

■ Display the Options menu.
■ Select Option 2 (Set Guide & Favorites). The Guide & Favorites menu appears.
■ Select Option 3 (Set Favorite Channels). The Favorite Channels menu appears.

Favorite Channels Menu

The Favorite Channels menu allows you to assign channels to either the Favorites A list or Favorites B list in the Interests menu (refer to the section entitled, "Viewing Interests & Favorites"). The Favorite Channels menu displays the following information:

■ Running down the left side of the screen is a listing of channels available on the current satellite. For each channel listing (from left to right), you will see the name of the channel (for example, ESPN), the satellite name (for example, G5), and the channel number (for example, 23).
■ To the right of each channel name are two boxes. The left box is under a title that reads: Favorites A. The right box is under a title that reads: Favorites B.
■ Press the ▲▼ keys to scroll through the list of channels.

To assign a channel to the Favorites A list or to the Favorites B list:
■ Scroll to the channel you wish to assign to the Favorites A list or to the Favorites B list.
■ Press the ◄► keys to highlight the box (Favorites A or Favorites B) to which you will assign the channel.
■ Then press the ENTER key. A check mark will appear in the box you select. Press the ENTER key again if you wish to remove the check mark.
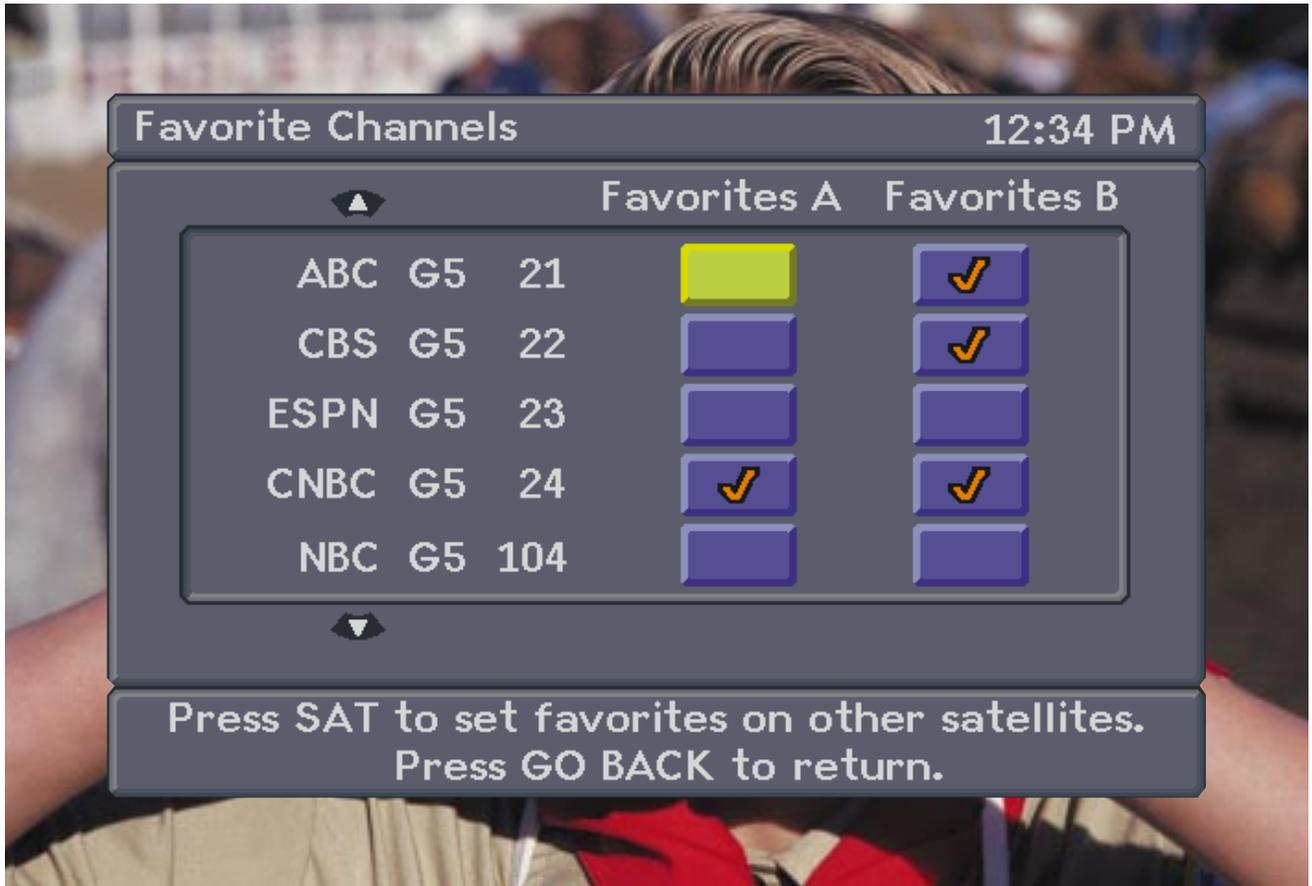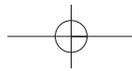
How to Set Favorite Channels from Other Satellites

If you wish to view channels available on another satellite, press the SAT key. A Favorites menu with a satellite list will appear. Select a satellite, and you will be returned to the Favorite Channels menu, where you can assign channels from the new satellite to the Favorites A list or the Favorites B list.

SECTION 8.3

Setting Timers

With timers, you can schedule your viewing up to one year in advance—whether you want to schedule one-time-only events or daily programs. Once you have set the timer, the 4DTV receiver will automatically tune to the satellite and channel when the program begins (the Front Panel display of the receiver displays two dashes rotating in a clockwise direction while a timed program is in progress). You can change, erase, and review the timers whenever you wish. Make sure to set your VCR if you wish to make a tape since 4DTV will not automatically program your VCR to tape an event.

Sleep Timer Sometimes when you are watching a program in 4DTV mode, you will want to automatically turn off the picture and sound because you plan to fall asleep after a certain amount of time.

◀ **0:30** ▶

To set the sleep timer:
■ Display the Options menu (press the OPTIONS key on the remote control).
■ Select option 6 (Change System Settings), and the System Settings menu appears.
■ Select option 6 (Sleep Timer) to highlight it.
■ Press the ◀▶ keys to set the amount of time you wish to watch and hear a program until the sleep timer shuts off the picture and sound (shown in hours and minutes). The maximum time limit is 3 hours.

How to Display the Timers Menu
■ Display the Options menu.
■ Select Option 4 (Set Timers). The Timers menu appears.

How to Use the Timers Menu
The Timers menu has up to five timer listings. Each listing that has already been set includes the program name, the day and time it begins, and icons for parental controls and IPPV programs.
■ Press the ▲▼ keys to scroll up and down the listings.
■ If you select a Not Used listing, a Set Timer menu will appear (turn to the next page for instructions about how to use the Set Timer menu).
■ If you select a listing that has already been set, the Change Timer/Erase Timers prompt screen will appear (see below).

Change Timer/Erase Timer Prompt Screen
The Change Timer/Erase Timer prompt screen has two options:
■ If you select the Change Timer option, the Set Timer menu will appear so that you can change the timer settings.
■ If you select Erase Timer, the Timers menu will reappear, and the listing will be changed to Not Used.
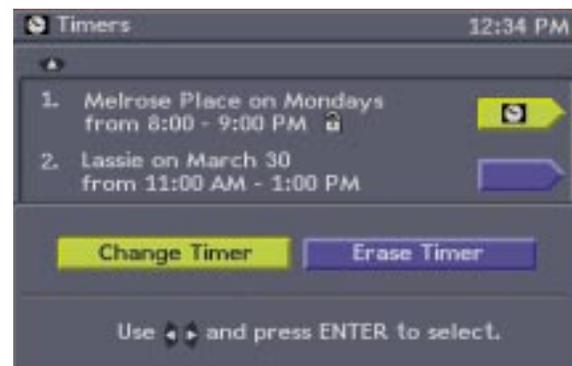
A clock icon appears on the right side of the arrow-shaped box if the timer is set but the program has not yet begun.
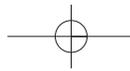
Maximum Number of Timers

If all five timers have been set, a prompt screen will appear and ask you to erase a timer so a new one can be set.

Before a Timer Executes

Two minutes before a timer executes, the Front Panel Timer LED will blink, and a countdown screen will appear. You may either: (1) press the GO BACK key to remove the countdown screen, (2) press the ENTER key to return to the Timers menu so that you can erase the timer, or (3) wait until the timer executes.

SECTION 8.3
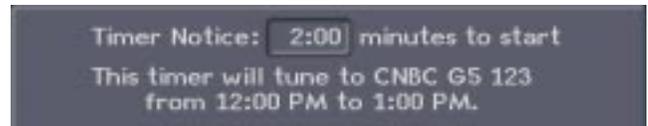
Setting Timers

How to Use the Set Timer Menu

If you selected a Not Used listing in the Timers menu (previous page), the Set Timer menu appears. The Set Timer menu allows you to select the scheduled time (or times) for a program, the date, the beginning and ending times for the program, the satellite, and the channel.

■ Press the ◄♦► keys to highlight the various options.

■ To set each option, press either the ◄► keys or the number keys as indicated (see the section below entitled "How to Set Each Option").

■ When you are finished setting all of the timer options, select the Confirm Timer arrow to display the Confirm Timer menu.

How to Set Each Timer Option

Press the ◄♦► keys to display the day of the week or the program's frequency (for example, a weekly or daily program).

Once ✓ | Daily | Weekly | Other

If Daily, Weekly or Other is selected, different screens will appear.

Press the ◄► keys to display the date.

on ◄ FEB 28 ►

Press the number keys to set the time. A timer must be at least 5 minutes long to activate.

starting at 12:34 PM

and ending at 1:34 PM

You can select a satellite in either of two ways:

■ Press the ◄► keys to display the correct satellite.

■ Press the SAT key to display the Satellite Select menu. Then select a satellite from the list. You will automatically be returned to the Set Timer menu, which will now display the selected satellite.

on satellite ◄ G5 ►
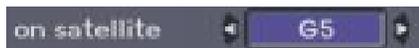
Press the ◄► keys, or press the number keys to indicate the channel number.

on channel ◄ ABC 123 ►

🕐 **Set Timer 4**   12:34 PM

This timer will happen

| Once ✓ | Daily | Weekly | Other |

on   ◀ FEB 28 ▶

starting at   12:34 PM

and ending at   1:34 PM

on satellite   ◀ G5 ▶

on channel   ◀ ABC 123 ▶

Confirm Timer ▶
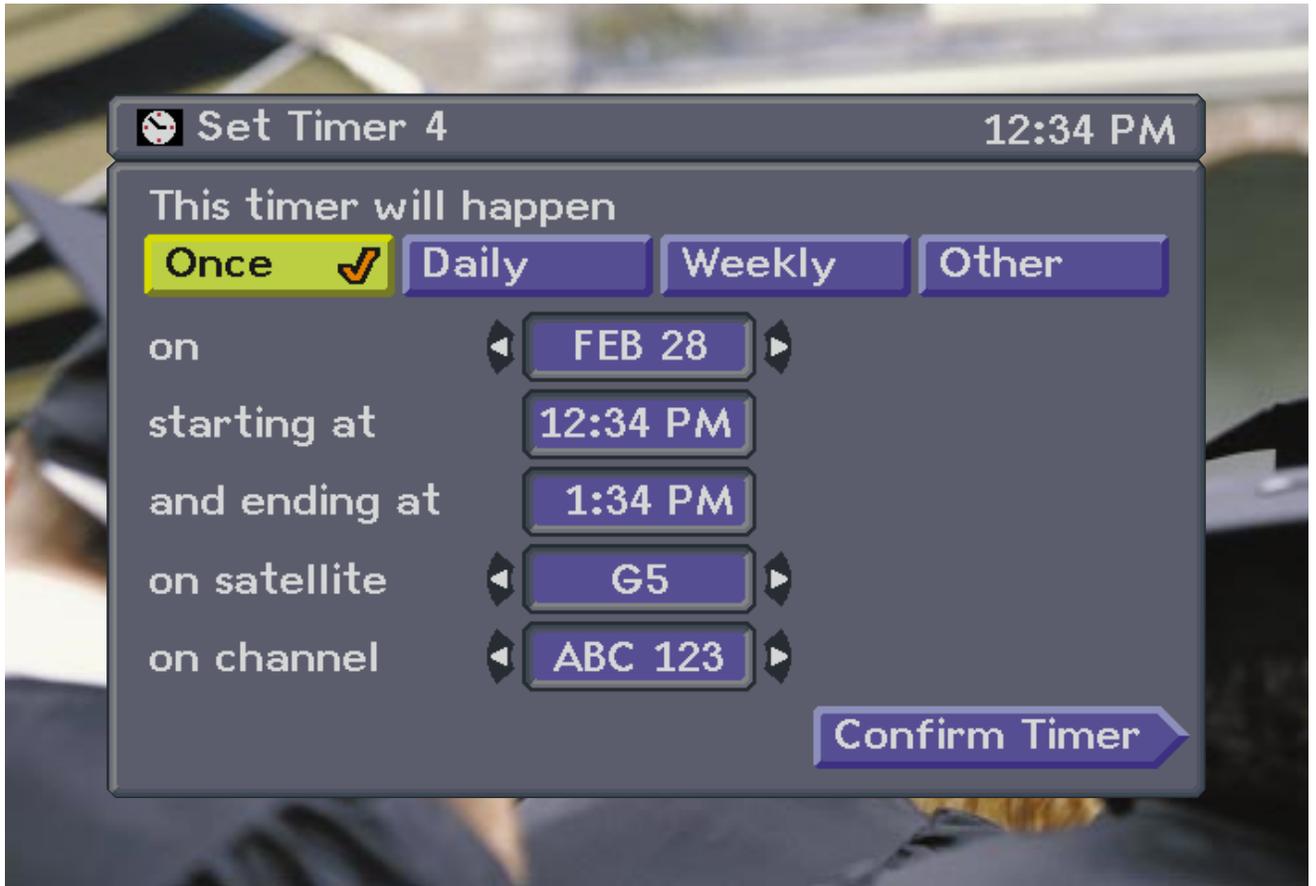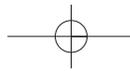
Setting a Timer for Next Year

If you set the timer for a month and day that have already passed in the current year, the 4DTV™ receiver will consider the setting to be for next year on that date. For example, if it is December and you set a timer for February, your timer will execute in February of the coming new year.

If You Press the GO BACK Key

If you press the GO BACK key from the Set Timer menu, a message screen will appear. It will instruct you to do either one of the following:
- Cancel your changes by pressing the ENTER key.
- Press the GO BACK key again to return to the Set Timer menu.

SECTION 8.3

Setting Timers

Confirm Timer Menu for VideoCipher Channels

The Confirm Timer menu has a slightly different appearance and functions differently for VideoCipher channels. You may set a timer, but you cannot pre-purchase an IPPV program or override a parental control rating ceiling from the Confirm Timer menu. You can approve an IPPV purchase and override the parental control rating ceiling only when the program starts.

Confirm Timer Menu for VideoCipher® Channels

How to Use the Confirm Timer Menu

The top portion of the Confirm Timer menu displays timer information followed by up to four options (the IPPV option does not appear if the program is not a subscription program).

1 Select option 1 (Confirm Timer and Leave) to complete your settings from the Set Timer menu and to return to the Timers menu to complete additional settings. Select this option only after you make sure the other options on this screen are correct.

2 Select option 3 (Change Timer) to return to the Set Timer menu and change the Timer option settings.

3 Option 3 (Approve Purchase?) allows you to pre-purchase a program before viewing time. This option only appears if your receiver is IPPV enabled. The program's price is not always displayed.
■ Select the Yes option to pre-purchase the program.
■ If you select the No option, the program will not be pre-purchased. The timer will be set for the program, but you will have to purchase the program at viewing time.
■ If the program cannot be taped, a no tape icon will appear.

If you have purchased a program or have used parental control features to lock out channels, satellites, or program content, a Password screen will appear. You will have to enter your password to finish setting the timer. Refer to the section entitled "Options: Setting Parental Controls and Passwords."

Setting a Timer Using the IPG

To set a timer while you are using the IPG or the Mini-Guide:
■ Highlight a future program.
■ Press the INFO key or the ENTER key.
■ The Confirm Timer menu will appear (follow the instructions for the Confirm Timer menu).

How to Cancel a Timer

To cancel a timer while it is executing:
■ Press the POWER key. For repeating timers (such as those used for daily or weekly programs), pressing the POWER key only cancels the currently executing event. The timer for the next repeating event (the timer for the next day or week) will be re-enabled at the start of the next day.
■ Erase the timer on the Timers menu. This will cancel single-event and repeating event timers. Refer to the section entitled "Change Timer/Erase Timer Menu" (on a previous page).

🕐 **Confirm Timer 4**   12:34 PM

This timer will tune to The Client
on April 27, 1998 from 4:00 PM to 6:00 PM.

1. Confirm Timer and Leave

2. Change Timer

3. Approve Purchase?

Yes ✓	No
Watch	Don't
$5.99 + tax	Purchase
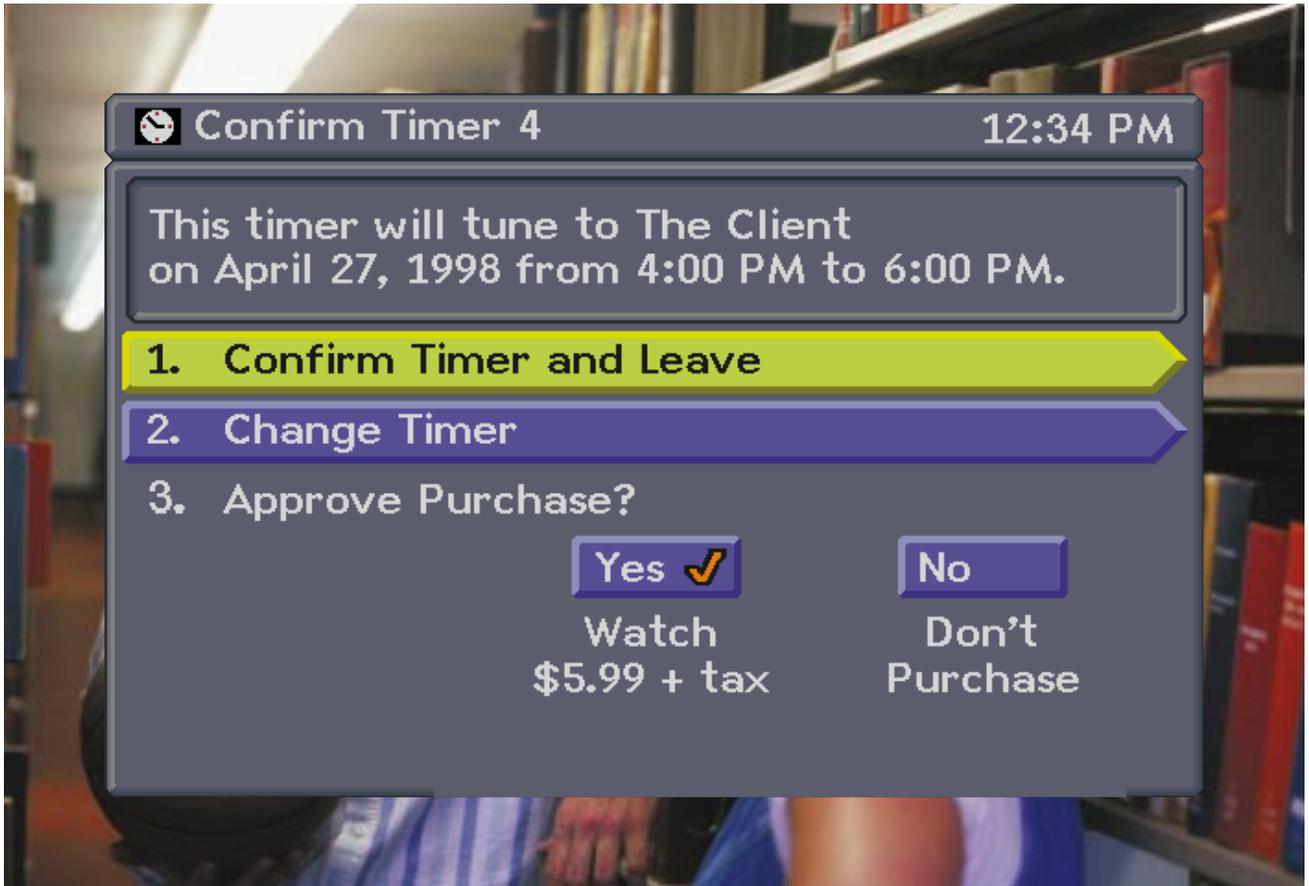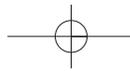
If New Settings Conflict with Previous Settings

If your new timer settings conflict with a previously set timer (for example, if both are set for the same time), a message screen will appear. It will describe the conflict and ask you to do either one of the following:

■ Press ENTER to replace the conflicting (previously set) timer with the new one.

■ Press GO BACK so that you can retain the previously set timer and change the settings of the current timer so that they no longer are in conflict.

A timer already exists for this day and time.

Press ENTER to erase the old timer
and save the new timer.
Or, press GO BACK to return.

OPTIONS
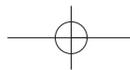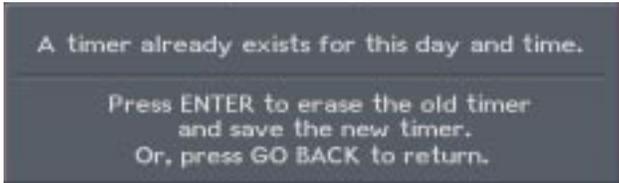
Setting Parental Controls & Passwords

We all have opinions about the type of programming we want in our homes. 4DTV's parental control features allow you to tailor your viewing to meet the specific needs of your household.

Press the 9 key for menus and instructions to set parental control/passwords for VideoCipher channels.

```
PARENTAL CONTROL
1 SELECT SATELLITE
2 SAT C3              UNLOCKED
3 CHANNEL             UNLOCKED
4 PC SYSTEM           UNLOCKED
5 ERASE ALL PC LOCKS
6 SET PC PASSWORD

USE 1-6 ↓↑ ENTER
```

VideoCipher® Parental Control Menu

```
ENTER PARENTAL
CONTROL
PASSWORD ( ------- )

USE 0-9 ENTER
```
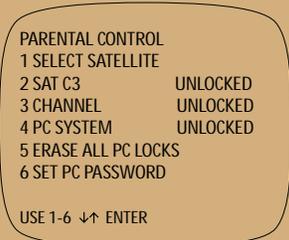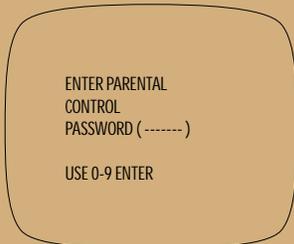
VideoCipher® Parental Control Password Screen

How to Display the Parental Control Menu

■ Display the Options menu.
■ Select option 3 (Set Parental Control). If a password has already been programmed, you will be asked to enter your password before you can have access to the Parental Control menu.

Parental Control Menu

The Parental Control menu enables you to set passwords, lock out certain satellites and channels, and lock out certain programs based on their rating or specific content.

1 **Set Password** The Set Password option allows you to set a parental control password that prevents others from viewing certain satellites, channels, and programs. It also prevents them from purchasing IPPV programs. The parental control password is different from the installation password used when you installed your 4DTV™ system.
■ From the Parental Control menu, select option 1 (Set Password). The New Password screen appears.
■ Use the number keys to enter a password of up to 8 numbers. An asterisk (*) will appear each time you add a number. Press the ◀ key to move to the left and change a number. When you are finished, press the ENTER key. The Confirm Password screen appears.
■ Re-enter your password numbers and press the ENTER key. The Password Changed screen appears, letting you know that your password is now effective. Press the GO BACK key to return to the Parental Control menu.

New Password: ********

To Set a New Password If you wish to change your password in the future, you must first enter your current password to gain access to the Parental Control menu. From the Parental Control menu, select option 1 (Set Password). The New Password screen appears. Key in a new password, and press the ENTER key. When the Confirm Password screen appears, re-enter the new password. A Password Changed screen will confirm that your password has been changed.

To Clear Your Password If you wish to clear your password so that no passwords are required to purchase Pay Per View programs or view locked-out channels, satellites, or programs, you must first enter your current password to gain access to the Parental Control
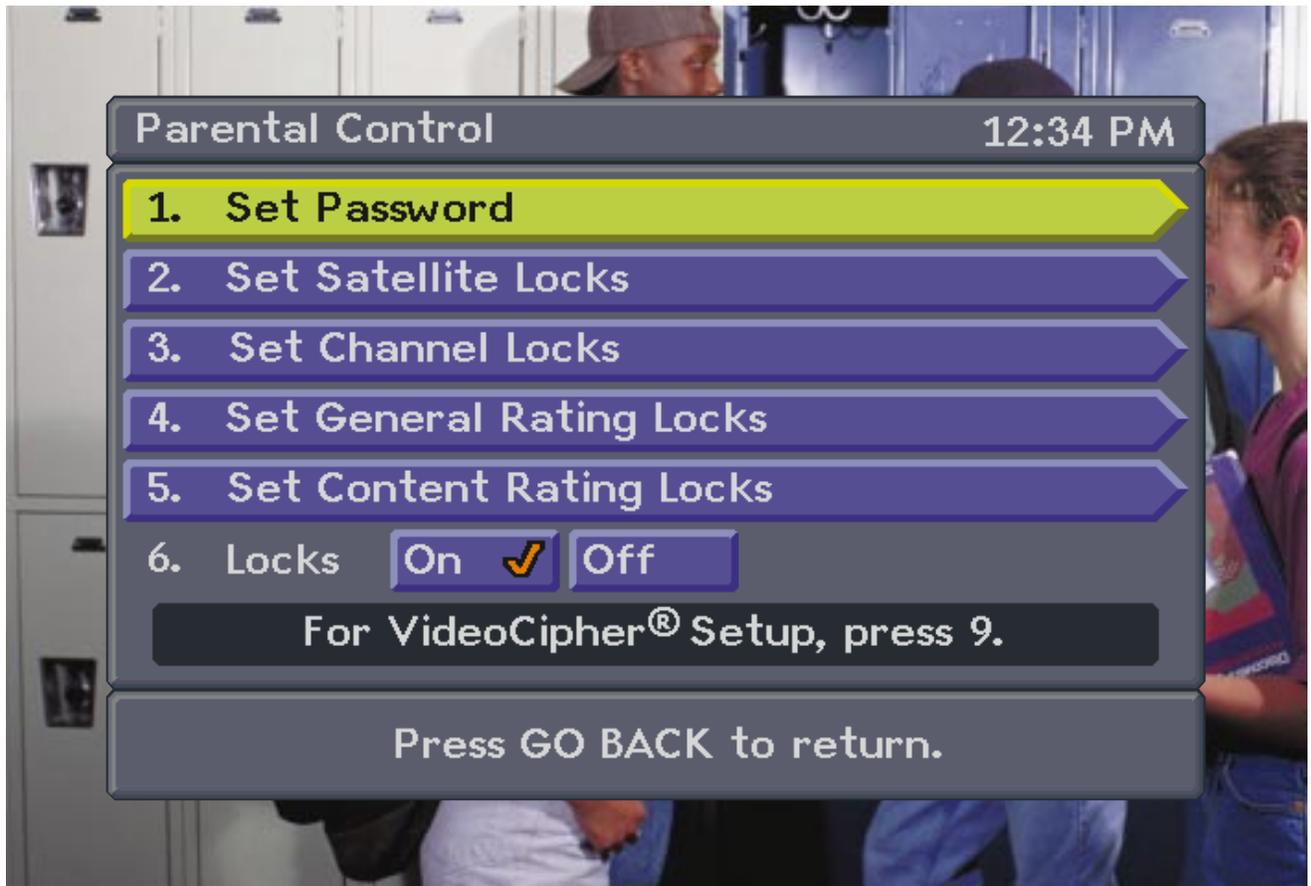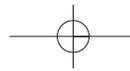
menu. From the Parental Control menu, select option 1 (Set Password). The New Password screen appears. Press the ENTER key without keying in any numbers. When the Confirm Password screen appears, press the ENTER key again without keying in any numbers. A Password Changed screen will confirm that your password has been cleared.

2 **Set Satellite Locks** The Set Satellite Locks option allows you to lock out specific satellites. Once a satellite is locked out, you must use the parental control password to view programs on the locked out satellite.

■ Select option 2 (Set Satellite Locks). The Satellite Locks menu appears with a satellite list.

T4 ■ Select the satellites you wish to lock out (press the ◄♦► keys to highlight a satellite, and press the ENTER key to select it). A lock icon appears to the right of the satellite name.

■ To unlock a locked satellite, press the ENTER key again, and the lock will disappear.

■ When you are finished, press the GO BACK key to exit this menu.

O P T I O N S

SECTION 8.4
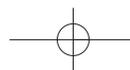
Setting Parental Controls & Passwords

VideoCipher Setup Press the 9 key for a menu and instructions on how to set rating ceilings for VideoCipher channels.

SET RATING CEILING

PROGRAM RATING: PG
RATING CEILING: X

(PRESS ←, → OR ENTER)
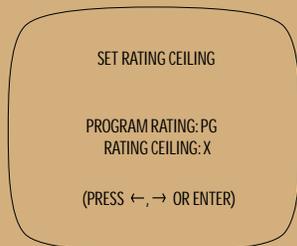
VideoCipher® Satellite Lock Menu

3 **Set Channel Locks** The Set Channel Locks option allows you to lock out specific channels without locking out an entire satellite. Once a channel is locked out, you must use the parental control password to view programs on the locked out channel.
■ Select option 3 (Set Channel Locks). The Channel Locks menu appears. The Channel Locks menu displays a list of channel names for the current satellite with buttons next to each name. Press the ▲▼ keys to scroll up and down the list of names.

■ Select a highlighted channel (press the ENTER key) to lock it out. A lock appears on the button. To remove a lock, select a channel that is already locked (press the ENTER key when it is highlighted).
■ To lock out channels on another satellite, press the SAT key to display a list of satellites. Select a satellite, and the Channel Lock menu will reappear, and you can select the channels you wish to lock out.
■ When you are finished, press the GO BACK key to exit this menu. Changes are saved automatically each time you set a lock.
■ When you are channel surfing, the 4DTV™ receiver will skip locked out channels. If you try to directly enter the channel number of the locked-out channel while channel surfing, the following message will appear: Channel Is Locked Out.

4 **Set General Rating Locks** The Set General Rating Locks option allows you to lock out programs based on their general rating—PG, R, NC-17, X, etc. Once you set a general rating limit, you must use the parental control password to view programs with that rating or a higher rating.
■ Select option 4 (Set General Rating Locks). The General Rating Locks menu appears.
■ If you highlight one of the rating boxes on the left side of the menu, a description of that rating will appear.
■ Select a rating to lock out programs with that rating . All higher ratings will also be automatically locked out. A closed lock symbol will appear. If you select a locked rating, it will be unlocked.
■ You may also select No Locks to permit access.
■ Press the 9 key for the Setup menu to set general ratings locks for VideoCipher® system channels.

Parental Control   12:34 PM

1. **Set Password**

2. Set Satellite Locks

3. Set Channel Locks

4. Set General Rating Locks

5. Set Content Rating Locks

6. Locks   On ✓   Off

For VideoCipher® Setup, press 9.

Press GO BACK to return.
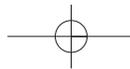
5 **Set Content Rating Locks** The Set Content Rating Locks option allows you to lock out digital programs based on their specific content—violence, sexual material, or offensive language—regardless of their general rating. Once you set a content rating lock, you must use the parental control password to view programs that possess the locked-out content.
■ Select option 5 (Set Content Rating Locks). The Content Rating Locks menu appears.
■ Listed under each category (Violence, Sexual Material, or Language) are four boxes. For example, under the Violence category are: No Locks, GV (graphic violence), V (violence), and (MV) mild violence. If you highlight one of the boxes, a full description of the category will appear.

■ Select a rating to lock out programs with that rating. All higher ratings will be automatically locked out, and a closed lock icon will appear. If you select a locked rating, it will be unlocked.
■ You may also select No Locks for each category.

6 **Locks** The Locks option allows you to turn off all of the satellite, channel, and program locks so that you can view all of the locked out satellites, channels, and programs. If you set any new locks after Locks is set to Off, the Locks option automatically re-sets itself to On. Each time you press the POWER key to turn on the receiver, the Locks Option re-sets itself to On.
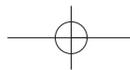
SECTION 9.0

Using Onscreen Help

If you occasionally forget what an icon (symbol) means or how to use one of the 4DTV features, just press the HELP key to display the Help messages. Press the ENTER key to display each successive Help screen.

Explanations

Some screens provide explanations that help you to use 4DTV™ receiver features.

Help	12:15 PM

GUIDE shows a list of programs. Or, if an Interest has been chosen, GUIDE shows a list of programs matching your Interest catagory.

INTERESTS lets you channel surf or see the Guide with your favorite channels or program catagory. Choose from Favorite Channel list A or B, Movies, Sports and more.

Favorite Channels are set in Options. **More ▶**

Press ENTER to continue.
Or, press GO BACK to return.

Help	12:15 PM

VIEW always takes you back to watching TV.

INFO brings up detailed information about a program while watching TV, in the Guide or while choosing favorite channels.

LAST CH returns to the last channel watched.

OPTIONS lets you read mail, set locks, and change system options. **Exit ▶**

Press ENTER to leave.
Or, press GO BACK to return.

Help	12:15 PM

You have mail.
Press OPTIONS.

PPU Pay Per View program.

info More information.
Press INFO.

Program cannot be videotaped.

SAP Alternate language.
Press OPTIONS to set.

Program, channel or satellite lock.

A timer is set for the program.

CC Closed Captioned.

More

Press ENTER to continue.
Or, press GO BACK to return.

Icons

If you forget what certain keys or icons mean, just look them up by displaying the screen above.
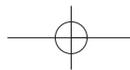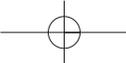
SECTION 10.0

Glossary

info

Detailed Information If detailed information such as actors and program content are available for the program you are viewing, you will see the italicized *info* symbol on your screen.

0:30

Decrease/Increase Arrows Arrow keys can appear to the left and right of a menu item display, such as the sleep timer. You can decrease the number in the menu display, or increase it by using the ◄► keys.

Mail You have a personal message in your mailbox. Go to your Options menu screen to read it.

Timer The clock symbol appears when you have set a timer to view a particular program at a certain time. See the Options section of the *Guide* for additional details on setting Timers.

SAP

Secondary Audio Programming Some programming will be available in a secondary language such as Spanish or French. You may select that language in the Options menu.

On

Yellow Button A highlighted yellow button indicates the active item on a menu screen. Press the ENTER key and the menu item will appear, or use your remote to highlight a different button.
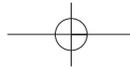
Checked Button A checked button indicates you have made a selection.

Closed Captioning This symbol indicates the program is available in closed captioning for the hearing impaired.

Password You can create a password of up to eight numbers. The asterisks hide your password from other viewers.

Locked When you see a "locked" padlock, a particular program or channel has been locked out and is password-protected. See the Options section of this guide.

Unlocked An "unlocked" padlock means that the password has been temporarily overriden.

No Taping If you purchase a Pay Per View program that does not permit videotaping or if you have chosen not to pay the additional fee that permits you to tape the program, this icon will appear.

Phone When a purchased program has been reported to the service provider, this phone icon appears.

Pay Per View If the Pay Per View function is available to you, this symbol will appear on your IPG listing and on various headers and banners.

Purchase This symbol appears when a program has already been purchased.
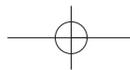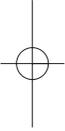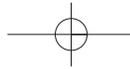
GENERAL INSTRUMENT CORPORATION OF DELAWARE, SATELLITE DATA NETWORKS GROUP

GI General Instrument