DVR FOR iO TV

With DVR for iO TV's capabilities, you will have more freedom, more choices, more control — and best of all — more fun! The possibilities are endless.

Record your favorite programs when you're busy

Record 1 program and watch another

Record 2 live programs while watching a 3rd program you recorded earlier

Record and store up to 100 hours of standard-definition (SD) programming on the DVR for iO TV and up to 24 hours of High-Definition (HD) programming on the HD-DVR for iO TV

Pause live TV for up to 1 hour without missing a minute

Use Instant Replay any time you want

Watch 2 programs at the same time on any TV you have, using the Picture-in-Picture feature

Note: Recording capacity varies based on the type of programming being recorded.

YOU'RE IN CONTROL

The Parental Control feature allows you to decide what TV content is appropriate for your family by setting viewing restrictions and spending limits. For additional information, visit optimum.com/parentalcontrol.

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WELCOME!

With the iO TV Digital Video Recorder (DVR), you can easily record your favorite programs and then play them back anytime. The DVR for iO TV lets you pause the live program, or rewind and play a portion of it again, or fast-forward it to catch up to live TV.

Sports fans can enjoy complete control by using instant replay, slow motion, and frame advance and rewind to watch their favorite play again.

Record TV Programs Without a VCR

Record and save your favorite TV programs to the DVR for iO TV to watch later.

When two of your favorite TV programs are scheduled at the same time, record one program to the built-in recorder while watching the other! Never miss your favorite programs that are scheduled at the same time. Simply record both programs at the same time. While recording both programs, you can play back a third program you have already recorded.

Record a single episode, or program your DVR for iO TV to record all episodes of your favorite TV programs. Record one of your favorite TV programs and at the same time, access any advanced application, such as On Demand or iO Games. Not sure if you have room to record new programs? You can check your available recording space any time.

Watch Two TV Programs at the Same Time

PIP is built into the DVR for iO TV, so you can watch two live programs at the same time on any make or model TV that is connected to your DVR for iO TV.

When something exciting occurs in the PIP program, you can easily swap the PIP into the Main screen. Once that program is in the Main screen, you can pause, rewind, or record it.

When the PIP screen position is covering a “must see” moment on the Main screen, simply move the PIP screen to a different corner of your TV screen.

Let's Get Started!
PREPARING THE DVR FOR iO TV TO WORK WITH YOUR HIGH-DEFINITION (HD) TV

Note: This section is for customers with HDTV. If you do not have an HDTV, skip to page 7.

First make sure that your DVR for iO TV is properly connected to your HDTV television and other electronic devices. Use the component (PrPbY) or HDMI ports to connect the DVR for iO TV to your HDTV.

For more information on connecting your DVR to your TV, refer to page 18 — Connecting Entertainment Devices.

Selecting HDTV Picture Formats with the HDTV Setup Wizard

The following section provides instructions for using the HDTV Setup Wizard to select HDTV picture formats using the Easy and Advanced Setup modes.

Easy Setup Instructions

1. Press \ or \ to select the type of TV screen you have. The setup is complete.
2. Press Power to begin watching TV.

Notes:

• If you pressed \ for the standard screen (4:3) TV setting, the TV is set to receive programming in 480i format on non-HD channels and 1080i format on HD channels.
• If you pressed \ for the widescreen (16:9) TV setting, the TV is set to only receive programming in 1080i format (even on non-HD channels).

Tip: After you complete the setup, you can use \ to stretch or zoom the picture.

Advanced Setup Instructions

1. Press \ or \ to select the type of TV screen you have.
2. Follow the on-screen instructions to select your picture formats.

Note: Choosing the Easy Setup mode limits your HDTV picture formats to 480i and 1080i, depending on the TV type you select.

3. Press SEL \ to toggle between the Save and Remove options, or press \ to see how the next format looks on your TV screen.

Note: If you see a black screen, do not press SEL again. Press \ again to view the next screen format.

4. After saving the picture formats, press Exit. The setup is complete.
5. Press Power to begin watching TV.

Tip: After you complete the setup, you can use \ to stretch or zoom the picture.

Selecting HDTV Picture Formats with the HDTV Setup Wizard

To start the HDTV Setup Wizard, follow these steps.

1. Make sure that the DVR for iO TV is powered OFF, but still plugged in to an active power outlet, and connected to the HDTV using the proper connectors (HDMI or Component cables).
2. Turn the TV ON.
3. With the DVR for iO TV powered OFF, press Guide and Info at the same time. Two screens will appear: SD setup, choose \; and HD setup, choose \. Select the setup for your TV. The HDTV Setup Wizard screen appears.
4. Press \ to start the setup.
5. Choose one of the following options:
   • To choose the Easy Setup option, press \, then, go to Easy Setup Instructions on page 5.
     Note: Choosing the Easy Setup mode limits your HDTV picture formats to 480i and 1080i, depending on the TV type you select.
   • To choose Advanced Setup option, press \, then, go to Advanced Setup Instructions on page 5.
     Note: Choosing Advanced Setup mode allows you to save all the HDTV picture formats, so that you can toggle between them easily while watching TV.
Select Picture Mode for Normal Viewing

After you use the HDTV Setup Wizard to select all the HDTV picture formats you want to use, you need to choose a General Settings picture mode for normal viewing. If you have your HDTV connected to the DVR for IO TV using component cables, Pass-Through mode is recommended for normal viewing. Pass-Through mode allows non-HD channels to be displayed using their native picture formats, which can improve picture quality on non-HD channels.

To select Pass-Through mode for normal viewing, follow these steps.

1. Press Settings twice. The General Settings menu appears.
2. Press Move Up or Move Down to highlight Set: Picture Format.
3. Press Move Right to highlight the picture format setting.
5. Press Accept to use this option for the HD-DVR for iO TV. The DVR front panel displays AUTO, plus the scan rate you are viewing (for example, 1080i).
6. Press Exit to return to normal viewing.

Note: When the HDMI connector is connected to the HDTV, the General Settings - Set: Picture Format screen displays the AutoDVI/HDMI option instead of the Pass-Through option.

Important: Do not connect the HDMI (DVI) output to an HDTV that does not support High-Definition Copy Protection (HDCP). If you connect the HDMI (DVI) output cable to an HDTV that does not support HDCP, you will not be able to see any video output. A message will be displayed instructing you to disconnect the HDMI connection and connect the component (PrPbY) cables.

CONTROLLING LIVE TV

Control a Live Program You Are Watching

Your DVR for IO TV lets you pause the live program, rewind and play a portion of it again, or fast-forward to catch up to live TV. Use the following remote control keys to control the live program in the Main screen:

The Pause, Rewind, Fast-Forward, Play, Instant Replay, and DVR keys on the remote control are used to control the live program in the Main screen.

For example, when you are watching your favorite live TV program and the telephone rings, press Pause to pause the program for up to 1 hour. From Pause mode, press Pause or Play to resume the normal play mode.

While in normal play mode, press Rewind or Fast-Forward to cycle through four different speeds of rewind or fast-forward.

To reverse or advance one frame at a time, press Pause and then repeatedly press Rewind or Fast-Forward. For example, to advance three frames, press Pause and then press Fast-Forward three times.

To see the action in slow motion, press Play from normal play mode. Press Play again to resume normal play mode.

To replay the last 8 seconds of a live or recorded program, press Instant Replay.

If you have rewound or paused a live program, press LIVE at anytime to catch up to the live TV program.

Note: You can use these same dedicated DVR for IO TV keys to control the reduced screen in the On-Screen Channel Guide and in all DVR for IO TV screens.

Pause a Live Program

The paused status bar appears when you press Pause.

Note: All of the features for controlling live TV (such as Pause, Fast-Forward, Rewind) are also available when playing back recorded programs.
USING THE CHANNEL GUIDE

Find a Program to Watch
1. Press Guide to get to the Main Menu, then SEL "Channel Guide". The Channel Guide appears and lists the next 7 days of programs.
2. Press the directional keys to move through the program listings and highlight the program you want to watch.
3. Press SEL If the program is currently on, the Channel Guide closes and the program you selected appears in full-screen TV. If the program is on in the future, a future program option screen appears including the option to record.

Search for a Program by Channel, Title or Theme
1. Press Guide to get to the Main Menu, then SEL "Channel Guide". The Channel Guide appears and lists the next 7 days of programs.
2. Press Browse By The Browse By area of the Channel Guide displays the options: Title, Channel and Theme.
3. Press Move Up or Move Down to highlight one of the following options:
   • Title, which lists programs alphabetically by program title
   • Channel, which lists programs numerically by channel number
   • Theme, which lists programs by theme, such as adventure, comedy, sports, or news
4. Press SEL The Browse By area of the Channel Guide displays the programs according to the option you selected.

Search for a Program by Date
1. Press Guide to get to the Main Menu, then SEL "Channel Guide". The Channel Guide appears and lists the next 7 days of programs.
2. Press Date The Browse By area of the Channel Guide displays the next 7 dates.
3. Press Move Up or Move Down to highlight a date.
4. Press SEL The Channel Guide displays the programs that will broadcast on that date.

Note: You will see the date you have selected at the bottom of the screen.

RECORDING TV PROGRAMS

Record a TV Program You Are Watching
1. Press Record The Confirm Recording screen appears.
2. While in the Confirm Recording screen, choose your recording options and press The Record Indicator is lit on the front panel of the DVR for IC TV.
3. To manually stop recording before the scheduled time, press Stop and then follow the on-screen choices.

Record a TV Program from the Channel Guide
1. Press Guide to get to the Main Menu, then SEL "Channel Guide".
2. Press the arrow keys to highlight a TV program, and then press Record The recording program is highlighted in red in the Channel Guide.
3. In the Confirm Recording screen, choose your recording options and press The recording program is highlighted in red in the Channel Guide.

Record Multiple Episodes or New First Run Episodes of a TV Program
If you want to record all the episodes of a program, follow these steps:
1. Press Record
2. Choose All Episodes Press SEL Notice the information in the fourth column changes, based on your selection. Press The All Episodes Recording Options screen appears.
3. Choose one of the options on the screen.
4. Press SEL to save your settings.

If you want to record new first-run episodes only, follow these steps:
1. Choose All Episodes and press
2. Highlight new first-run episodes on this channel and press SEL
WATCHING YOUR RECORDINGS

Access and Play Back Your Recorded Programs Anytime

1. Press DVR.
2. Use the arrow keys to choose the program you want to play back.
3. Press SEL to display your option.
4. After reviewing your selection, press DVR to select another recorded program, or press any channel to return to watching TV.

MANAGING RECORDING SPACE

How Much Recording Space Do I Have?

1. Press DVR.
2. Press to display the Preferences screen, which displays the percentage of space used.

Automatically Erasing Oldest Recordings if Space is Needed

Turning Auto Erase on will automatically erase your oldest recordings one by one until there is enough space to record your new programs.

Note: Any recordings that have a Save Time of “Until I Erase” will not be automatically erased.

1. Press DVR.
2. Press to display the Preferences screen.
3. Choose Turn ON Auto Erase.
4. Press SEL.

How to Erase a Single Title

Press DVR to see your recordings.

Note: LIST may appear on screen. LIST and DVR function in the same way.

Using the directional keys, highlight the title you want to erase.

Press SEL for Options/Play. Using the directional keys, highlight Erase and press SEL. Press to erase or to cancel.

COPY RECORDINGS FROM YOUR DVR FOR iO TV TO A VCR TAPE

The Copy to VCR feature lets you copy recordings from your DVR for iO TV to a VCR tape.

Warning: Avoid electric shock. Unplug all electronic devices before connecting or disconnecting any device cables to the DVR for iO TV.

Verify that the OUT 2 outputs are connected to your VCR inputs.

Note: This graphic shows the HD-DVR for iO TV back panel layout. The DVR for iO TV back panel is slightly different.

The program that you are copying appears in the PIP window. Connecting to your VCR using the OUT 2 outputs allows you to watch or record another program or even change channels in the Main screen, without affecting the copy in progress.

Notes:
• You can turn the PIP feature off and on without affecting the copy in progress. A “Copying to VCR” banner will be displayed for 3 seconds when you turn the PIP feature on.
• You can still record live TV directly to a VCR tape (instead of your DVR for iO TV) by connecting the DVR for iO TV OUT 2 outputs directly to the VCR inputs and not using the Copy a Recording to a VCR Tape instructions on page 12. Recording live TV directly to your VCR causes the VCR to record all remote control activities, including information banners and on-screen displays such as when Guide is pressed.

The Copy to VCR feature lets you copy recordings from your DVR for iO TV to a VCR tape.

Warning: Avoid electric shock. Unplug all electronic devices before connecting or disconnecting any device cables to the DVR for iO TV.

Verify that the OUT 2 outputs are connected to your VCR inputs.

Note: This graphic shows the HD-DVR for iO TV back panel layout. The DVR for iO TV back panel is slightly different.

The program that you are copying appears in the PIP window. Connecting to your VCR using the OUT 2 outputs allows you to watch or record another program or even change channels in the Main screen, without affecting the copy in progress.

Notes:
• You can turn the PIP feature off and on without affecting the copy in progress. A “Copying to VCR” banner will be displayed for 3 seconds when you turn the PIP feature on.
• You can still record live TV directly to a VCR tape (instead of your DVR for iO TV) by connecting the DVR for iO TV OUT 2 outputs directly to the VCR inputs and not using the Copy a Recording to a VCR Tape instructions on page 12. Recording live TV directly to your VCR causes the VCR to record all remote control activities, including information banners and on-screen displays such as when Guide is pressed.
Copy a Recording to a VCR Tape

1. Connect the VCR to the OUT 2 connection on the back of the DVR for iO TV. See page 11 for more information.

2. Make sure that a tape is in your VCR and that the VCR is ready to record.

3. Press DVR \( \text{out} \). The Recorded List screen appears.

4. Press Move Up or Move Down to highlight the recording you want to copy to the VCR. Make sure to select a program that is not currently being recorded.

5. Press SEL. The Recorded Program Options screen appears.

6. Press Move Up to highlight “Copy to VCR.”

7. Press SEL. The Copy to VCR screen appears.

8. Make sure your VCR is properly connected to your DVR for iO TV outputs, and press Record on your VCR.

9. Press Start copy. The recording begins copying to the VCR tape. The Recorded List displays the VCR symbol for the recording that is copying to the VCR.

Note: You can watch the copying in progress through the PIP.

Activate PIP on Your TV

While watching a program, press PIP On-Off to activate the PIP screen.

Notes:
- To pause or record the video in the PIP screen, you must first swap it to the Main screen, by pressing PIP Swap.
- You can only use the dedicated DVR for iO TV keys (Pause, Rewind, Fast-Forward) to control the program shown in the Main screen.
- To change the channel in the PIP screen, use PIP CH+ and PIP CH-.

Tip: While the PIP screen is activated, press INFO to display channel information for both the Main screen and the PIP screen.

Activate PIP from the Channel Guide

From the Channel Guide, press Exit or Guide to close the Channel Guide, and then press PIP On-Off to activate PIP. You can only activate PIP from full-screen video.

Swap the Main and PIP Screens

To swap the TV program that is in the PIP screen to the Main screen, press PIP Swap.

Note: You will only hear the audio for the program shown in the Main screen.

Move the PIP Screen

To move the PIP screen clockwise to a different corner of the Main screen, press PIP Move. You can move the PIP screen to any of the four corners of the Main screen.
USING POWER-SAVE MODE

To maximize the life of your DVR, you should power-down the DVR when it is not in use. Simply press **CBL** and then **TV** on your remote control, or press **Power** on the front panel of the DVR. The Power light turns off, but, because the DVR is still plugged in, your scheduled recordings still occur.

Between 1:00 a.m. and 6:00 a.m. daily, your DVR will automatically enter Power-Save mode unless you press a key on the remote control or a key on the DVR front panel at least once every 2 hours. In Power-Save mode, the set-top is powered-down, but all scheduled recordings still occur. When the DVR enters Power-Save mode, your TV displays a grey screen with a "Press Any Key" message.

**Note**: Cablevision controls whether or not the automatic Power-Save mode is activated on your DVR for iO TV.

At 1:10 a.m., the DVR displays a 5-minute warning banner, indicating that the DVR is about to enter power-save mode. When this banner appears, do one of the following:

- To allow the DVR to enter Power-Save mode, do nothing when the warning banner appears. The DVR will automatically power-down. After your DVR powers down, press any key on your remote control, or press **Power** on the front panel of your DVR to start watching TV again.
- To prevent the DVR from entering Power-Save mode, simply press any key on your remote or any key on the front panel of the DVR when the warning banner appears. The DVR will not attempt to enter power-save mode again until another 2 hours of inactivity has passed.

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THE FRONT PANEL OF DVR FOR iO TV AND HD-DVR FOR iO TV

1. **Power**: Provides power to the digital cable box. The light to the left of the POWER key illuminates when the power is on. To receive nightly programming updates, turn off the box when not in use.
2. **Video and Audio Input**: Connects to video and left/right (L/R) audio outputs of an external device (e.g., video camera or game system) to display on the TV.
3. **List**: Displays the list of recorded programs.
4. **Exit**: Exits menus, the on-screen guide and program information.
5. **Info**: Displays channel and program details for channel currently selected.
7. **IR Sensor**: Receives the infrared signal from the remote control.
8. **LED Display**: Displays the selected channel number and time of day. The LED also displays the following:
   - Message
   - HDTV (if applicable)
   - Power
   - Output Resolution (1080i, 720p, 480p, 480i)
   - RECORD
   - AUTO - Automatically outputs native scan rates that your TV can accept.
9. **VOL+ and VOL-**: Increases and decreases volume.
10. **CH+ and CH-**: Scrolls up and down through the channels.
11. **Select**: Displays highlighted on screen selection.
12. **Smart Card Slot**: The slot into which Smart Card is inserted. **DO NOT REMOVE CARD UNLESS INSTRUCTED!**
13. **USB Port**: Reserved for future use.
### The Back Panel of the HD-DVR for iO TV

<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Cable In</td>
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<tr>
<td>2</td>
<td>Cable Out</td>
</tr>
<tr>
<td>3</td>
<td>Component Outputs (PrPbY)</td>
</tr>
<tr>
<td>4</td>
<td>Digital Audio Output</td>
</tr>
<tr>
<td>5</td>
<td>Secondary Video and Audio Out</td>
</tr>
<tr>
<td>6</td>
<td>Audio Out (LEFT and RIGHT)</td>
</tr>
<tr>
<td>7</td>
<td>Optical Audio</td>
</tr>
<tr>
<td>8</td>
<td>S-Video Out</td>
</tr>
<tr>
<td>9</td>
<td>HDMI (High Definition Multimedia Interface)</td>
</tr>
<tr>
<td>10</td>
<td>IR</td>
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<tr>
<td>11</td>
<td>SATA</td>
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<tr>
<td>12</td>
<td>1394 Firewire</td>
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<td>13</td>
<td>AC Outlet</td>
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<tr>
<td>14</td>
<td>AC Power Input</td>
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</tbody>
</table>

- **Cable In**: Connects to the coaxial cable coming from the wall
- **Cable Out**: Connects to the coaxial cable input of TV or VCR
- **Component Outputs (PrPbY)**: Connects to HDTV component output ports to the HDTV input on your HDTV
- **Digital Audio Output**: Connects an RCA cable to send a digital audio signal to a surround-sound receiver or other digital audio device
- **Secondary Video and Audio Out**: Connects to a VCR for archiving saved content from the HD-DVR for iO TV
- **Audio Out (LEFT and RIGHT)**: Connects an RCA cable to send an analog audio signal to a surround-sound receiver or other audio device
- **Optical Audio**: Connects an optical cable to send a digital audio signal to a surround-sound receiver or other digital audio device
- **S-Video Out**: Connects an S-Video cable to send an S-Video signal to your TV. This signal is standard definition, but higher quality than other SDTV connections
- **HDMI (High Definition Multimedia Interface)**: Connects the HDTV HDMI connector to the HDMI port of your HDTV. HDMI supports both digital audio and video. May be used to connect to a DVI interface using an adapter
- **IR**: Reserved for future use
- **SATA**: Connects an optional external SATA (eSATA) hard drive to expand storage space
- **1394 Firewire**: Connects to optional 1394-equipped (FireWire) devices
- **AC Outlet**: Connects the AC power cord from another device, such as a TV
- **AC Power Input**: Delivers power from the AC electrical outlet to the digital cable box using the cord provided

### The Back Panel of the Standard DVR for iO TV

<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Cable In</td>
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<tr>
<td>2</td>
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<tr>
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<td>Audio Out (LEFT and RIGHT)</td>
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<td>S-Video Out</td>
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<td>8</td>
<td>IR</td>
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<td>SATA</td>
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<td>10</td>
<td>AC Outlet</td>
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<tr>
<td>11</td>
<td>AC Power Input</td>
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</tbody>
</table>

- **Cable In**: Connects to the coaxial cable coming from the wall
- **Cable Out**: Connects to the coaxial cable input of TV or VCR
- **Audio Out (LEFT and RIGHT)**: Connects RCA cables to send analog audio signals (left and right) to a stereo receiver or TV with stereo outputs
- **Digital Audio Output**: Connects an RCA cable to send a digital audio signal to a surround-sound receiver or other audio device
- **Secondary Video and Audio Out**: Connects either to a VCR for archiving saved content from the DVR for iO TV or connect to another set of inputs (composite) on your TV
- **S-Video Out**: Connects an S-Video cable to send an S-Video signal to your VCR. This signal is standard definition, but higher quality than other SDTV connections
- **IR**: Reserved for future use
- **SATA**: Connects an optional external SATA (eSATA) hard drive to expand storage space
- **AC Outlet**: Connects the AC power cord from another device, such as a TV
- **AC Power Input**: Delivers power from the AC electrical outlet to the digital cable box using the cord provided
CONNECTION DIAGRAMS

Where are the Connection Diagrams?
The diagrams on the following pages show examples of common ways to connect the DVR for iO TV to your TV, VCR and home theater receiver. However, these diagrams do not show every possible combination of devices. Please consult the user’s guides that came with your other electronic devices for further information.

What Cables Do I Need?
Some of the cables shown in the diagrams may not be included with the DVR for iO TV. Cablevision provides you with the component (PbPrY) video cables and the red/white audio cables.

How Do I Connect the DVR for iO TV to My Television or Other Entertainment Devices?
When you are ready to connect the DVR for iO TV, follow these instructions.
1. Power off all electrical devices before connecting to avoid electrical shock.
2. Connect the DVR for iO TV to the coaxial cable coming from the wall.
3. Connect the DVR for iO TV to your TV, VCR and other entertainment devices as shown in the diagrams on the following pages. (The diagrams in this guide do not cover every possible combination.)
4. Plug the DVR for iO TV and the TV into an AC power source.
5. Do not turn on the DVR for iO TV or TV yet.
6. Wait until you see the following display on the front of the DVR for iO TV:
   • Current time
   Important: It may take several minutes for the DVR for iO TV to receive the latest software, programming and service information. When the front panel displays the time or four dashes, the update is complete.
7. After the update is complete, turn ON the TV.

How Do I Set Up Stereo Sound?
To set up stereo sound, choose one of the following options:
• Connect an RCA cable from the DIGITAL AUDIO OUT on the DVR for iO TV to the DIGITAL AUDIO IN on your TV (if equipped) or stereo receiver.
• Connect stereo audio cables from the AUDIO OUT LEFT and RIGHT connectors on the DVR for iO TV to the AUDIO IN LEFT and RIGHT connectors on your TV.

CONNECTING THE DVR FOR IO TV TO YOUR STANDARD-DEFINITION (SD) TV AND VCR
CONNECTING THE DVR FOR iO TV TO YOUR STANDARD-DEFINITION (SD) STEREO TV AND STEREO VCR

1. Connect DVR for iO TV to Stereo TV
2. Connect Home Theater Receiver to SD Stereo TV
3. Connect SD Stereo TV to Stereo VCR

WARNING: Electric shock hazard! Unplug all electronic devices before connecting or disconnecting any device cables to the DVR for iO TV.

CONNECTING THE DVR FOR iO TV TO YOUR HOME THEATER, STANDARD-DEFINITION (SD) STEREO TV AND EXTERNAL SATA HARD DISK DRIVE

1. Connect DVR for iO TV to Home Theater Receiver
2. Connect DVR for iO TV to SATA hard disk drive
3. Connect Home Theater Receiver to SD Stereo TV

WARNING: Electric shock hazard! Unplug all electronic devices before connecting or disconnecting any device cables to the DVR for iO TV.
What is the Difference Between a Standard Screen and a Wide Screen?

The type of screen your HDTV has (wide screen or standard screen) determines how the HD-DVR for iO TV displays programs on the screen. The picture format for an HDTV is a combination of aspect ratio and screen resolution and is different for standard-screen and wide-screen HDTVs.

What is Aspect Ratio?

An aspect ratio is the ratio of the width to the height of the TV screen. The aspect ratios differ because the television industry manufactures both standard-screen and wide-screen TVs to appeal to consumer viewing preferences.

What is the Screen Resolution?

The screen resolution indicates the amount of detail that the picture displays. Resolution is identified by the number of display lines on the screen. The techniques that an HDTV uses to “paint” the picture on the screen are referred to as progressive and interlaced.

Progressive scan displays all of the lines of a resolution sequentially in a single pass, resulting in a smoother image, especially with high motion programming, such as sports or action movies.

Interlaced images are drawn on your screen sequentially: odd-numbered lines drawn first, then even-numbered lines — all within 1/30 of a second.

Required Connections for an HDTV

When using the HD-DVR for iO TV with an HDTV set, you must make one of the following connections to view the HD content. In addition, you can make connections to a VCR or other external recording device. See the tables and cabling diagrams in this section for more detailed information.

Optional Connections for a VCR

There are several brands and models of VCRs in the marketplace. The features and connectors are not the same on all brands and models. The following table describes the connectors commonly found on stereo VCRs and specifies the corresponding connector on the HD-DVR for iO TV that should be used.
CONNECTING THE HD-DVR FOR iO TV TO AN HDTV WITH COMPONENT INPUT (PrPbY)

**WARNING:** Electric shock hazard! Unplug all electronic devices before connecting or disconnecting any device cables to the HD-DVR for iO TV.

CONNECTING THE HD-DVR FOR iO TV TO AN HDTV WITH AN HDMI CONNECTOR

**WARNING:** Electric shock hazard! Unplug all electronic devices before connecting or disconnecting any device cables to the HD-DVR for iO TV.

CONNECTING THE HD-DVR FOR iO TV TO AN HDTV WITH A DVI CONNECTOR

Note: When connecting the HDMI connector to the HDTV's DVI connector, you need an HDMI-to-DVI adaptor, and you need a separate audio connection.

**WARNING:** Electric shock hazard! Unplug all electronic devices before connecting or disconnecting any device cables to the HD-DVR for iO TV.
TROUBLESHOOTING

If the DVR for iO TV does not perform as expected, the following tips may help. If you need further assistance, contact your cable service provider.

No Picture
• Verify that the power to your TV is turned on.
• If plugged into a wall switch, verify the switch is in the ON position.
• Verify that all cables are properly connected.
• If your system includes a VCR and/or stereo, verify that you have properly connected them to the DVR for iO TV.
• Verify that the TV is set to the proper input.
• Verify that the TV is connected to the proper TV input port.
• If HDTV, verify that the DVR for iO TV is set to the proper screen type and resolution using the HDTV Wizard.

No Color
• Verify that the current TV program is broadcast in color.
• Adjust the TV color controls.

No Sound
• If your setup includes a VCR or stereo, verify that you have properly connected them to the DVR for iO TV.
• Verify that the volume is turned up.
• Verify that the mute function is not engaged.
• See “Important” Note under “Getting Connected.”

Automatic Software Updates
The TV screen displays a message that indicates the DVR for iO TV is automatically updating its software. Wait for the time to display on the front panel of your DVR for iO TV before continuing with the install process. When the front panel displays the time, the update is complete.

USING PARENTAL CONTROL
Blocking and Unblocking Channels Using General Settings
Perform the following steps to select channels that you want to block:
1. Press the SETTINGS key twice.
2. At the General Settings menu, press the UP or DOWN arrow keys to highlight Block Channels; then, press the SEL key.
3. Enter your Parental Control Blocking PIN, if required.
4. Press the UP or DOWN arrow keys to highlight each channel you want to block.
5. Press the SEL key.

Important Note Regarding the HDMI Interface
The High-Definition Multimedia Interface (HDMI) is an all-digital audio and video interface. HDMI provides a digital interface between any audio and video source, HDMI supports standard, enhanced or high-definition video, plus digital audio. Some HDTVs do not contain circuitry to decode Dolby® Digital formatted content. If you connect your DVR for iO TV to an HDTV that cannot support Dolby Digital audio, the DVR for iO TV automatically switches its audio outputs to 2-channel PCM audio (so it be compatible with the HDTV). In this case, all digital audio outputs on the DVR for iO TV are formatted as 2-channel PCM. As a result, you will not be able to receive Dolby Digital or DTS audio on your home theater system when connected to either the optical or coax (RCA Connector) S/PDIF port. You can avoid this by overriding the automatic configuration through the DVR for iO TV General Settings menu and switching the audio output to Dolby Digital.

Important: If your HDTV cannot decode Dolby Digital formatted content and you have configured the DVR to output in the Dolby Digital format, you will not be able to listen to audio through the TV. Instead, you must use your home theater or your Dolby Digital decoding device in order to hear audio. Alternatively, you can record the TV show to DVD, then play it back on your DVD player.

Note: Blocking does not take effect until you turn on the Parental Control feature. For details on how to turn on and turn off the Parental Control feature, visit optimum.com/parentalcontrol.
FREQUENTLY ASKED QUESTIONS

How far back can I rewind live TV? The length of time you can rewind live TV depends on how long you have been tuned to a single channel. Each time you change channels, a new copy is automatically stored to the built-in recorder. This copy saves up to the last 1 hour of programming. For example, if you have been watching the same channel for 15 minutes, you can rewind that 15 minutes of the program on the channel you have been watching.

Can I record the quarter screen in the Channel Guide or the DVR for iO TV Recorded List? Yes, you can record the quarter screen on all DVR for iO TV screens by pressing Record. You can also record the quarter screen in the Channel Guide. Press Exit to display the video in full screen, and then press Record.

Note: Pressing Record while in the Channel Guide will record the highlighted program in the grid.

Can I record or pause the video in the PIP screen? Yes, but you must swap it to the Main screen first. After pressing Record and confirming the recording, you can swap it back to the PIP screen and it will continue recording. You can also press PIP Off-On, and the video will continue to record.

Can I use PIP while copying a program to my VCR? When copying a program to a VCR, the PIP can be used to monitor the progress of the copy status. You cannot use PIP to watch another program while copying a program to a VCR.

What happens if my DVR for iO TV loses power temporarily? Everything you have recorded is saved, based on the save time you selected in the Confirm Recording screen. Your scheduled recordings during the time the DVR for iO TV lost power are the only recordings you may miss; recording will automatically resume when power comes back on.

Do my Parental Controls in the Channel Guide carry over to DVR for iO TV recordings? Yes, if you block programs by channel or rating in General Settings menu, those settings are carried over to DVR for iO TV recordings. For example, if you decide to block all R-rated programs in the General Settings menu, the R-rated programs will still be recorded, but you cannot play them back until you enter the correct PIN.

How do I block or erase individual recordings in my recorded list or change the save time for the recording? Highlight the recording on the Recorded List screen, and press SEL on the remote control. An Options screen appears for the program you selected.

Can I record or pause the video in the PIP screen? Yes, but you must swap it to the Main screen first. After pressing Record and confirming the recording, you can swap it back to the PIP screen and it will continue recording. You can also press PIP Off-On, and the video will continue to record.

How will I know the DVR for iO TV is almost out of recording space? When you try to schedule the next recording, a warning appears on the Confirm Recording screen. Also, you can see what percentage of recording space you have used. Press DVR and then press B for preferences.

What happens if my DVR for iO TV loses power temporarily? Everything you have recorded is saved, based on the save time you selected in the Confirm Recording screen. Your scheduled recordings during the time the DVR for iO TV lost power are the only recordings you may miss; recording will automatically resume when power comes back on.

Do my Parental Controls in the Channel Guide carry over to DVR for iO TV recordings? Yes, if you block programs by channel or rating in General Settings menu, those settings are carried over to DVR for iO TV recordings. For example, if you decide to block all R-rated programs in the General Settings menu, the R-rated programs will still be recorded, but you cannot play them back until you enter the correct PIN.

How do I block or erase individual recordings in my recorded list or change the save time for the recording? Highlight the recording on the Recorded List screen, and press SEL on the remote control. An Options screen appears for the program you selected.

Why are all my programs displayed in 1080i format (HD Only)? You may have selected the Easy Setup mode and the wide screen (16:9) TV setting in the HDTV Setup Wizard. Choosing these two settings together limits your programming to 1080i format, even on non-HD channels. To see your non-HD programs in 480i on a wide screen (16:9) HDTV, use the Advanced Setup in the HDTV Setup Wizard. Make sure that you select 480i as one of your saved formats, and then select Pass-Through in General Settings. Picture Format for your default picture format.

COMPLIANCE INFORMATION

United States FCC Compliance

This equipment has been tested and found to comply with the applicable limits of Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or TV reception, which can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult your cable company or an experienced radio/TV technician for help

Any changes or modifications not expressly approved by Scientific-Atlanta could void the user’s authority to operate the equipment.

Canada EMI Regulation

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Software and Firmware Use

Scientific-Atlanta, Inc. owns copyrights to the software included in your DVR for iO TV and furnishes the software to Cablevision under a license agreement. You may only use or copy this software in accordance with Cablevision. Scientific-Atlanta, Inc. owns copyrights to the firmware in this equipment. You may only use the firmware in the equipment in which it is provided. Any reproduction or distribution of this firmware, or any portion of it, without the express written consent of Scientific-Atlanta, Inc. is prohibited.

Trademarks

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Disclaimer

Scientific-Atlanta, Inc. assumes no responsibility for errors or omissions that may appear in this guide. Scientific-Atlanta reserves the right to change this guide at any time without notice.
SAFETY COMPLIANCE STATEMENTS

Read and Retain These Instructions
- Read all of the instructions before you operate this DVR. Give particular attention to all safety precautions. Retain the instructions for future reference.
- Comply with all warning and caution statements in the instructions. Observe all warning and caution symbols that are affixed to this DVR.
- Comply with all instructions that accompany this DVR.

Placement
Place this DVR in a location that is close enough to an electrical outlet to accommodate the length of the power cord.
Note: Place this DVR on a stable surface. The surface must support the size and weight of this DVR.

WARNING: Avoid personal injury and damage to this DVR. An unstable surface may cause this DVR to fall.

Ventilation
This DVR has openings for ventilation that protect it from overheating. To ensure the reliability of this DVR, follow these guidelines to avoid obstructing the openings:
- Do not place other equipment, lamps, books, vases with liquid, or any other object on the top of this DVR.
- Do not place this DVR in any of the following locations:
  - On a bed, sofa, rug, or similar surface
  - In a bookcase or equipment rack, unless the installation provides proper ventilation

Cleaning the DVR
Before cleaning this DVR, unplug it from the electrical outlet. Use a damp cloth to clean this DVR. Do not use a liquid cleaner or an aerosol cleaner. Do not use a magnetic/static cleaning device (dust remover) to clean this DVR.

Object and Liquid Entry
Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Do not expose this DVR to liquid or moisture. Do not place this DVR on a wet surface. Do not spill liquids on or near this DVR.

Power Sources
A label on this DVR indicates the correct power source for this DVR. Operate this DVR only from an electrical outlet that has the voltage and frequency that the label indicates. If you are unsure of the type of power supply to your residence, consult your local power company.

Power Cord Polarization
This DVR has a two-prong plug. Properly ground (earth) this DVR by inserting the plug into a grounded electrical, two-socket outlet. If this plug is polarized, it has one wide prong and one narrow prong. This plug fits only one way.

CAUTION: To prevent electric shock, match wide blade of plug to the wide slot, and then fully insert.

If you are unable to insert this plug fully into the outlet, contact an electrician to replace your obsolete outlet.

Damage that Requires Service
For damage that requires service, unplug this DVR from the electrical outlet. Refer to qualified personnel when any of the following occurs:
- There is damage to the power cord or plug
- Liquid enters the DVR
- There is exposure to rain or water
- Operation is not normal (the instructions in this guide describe the proper operation)
- If you drop this DVR, or damage the cabinet of this DVR
- If this DVR exhibits a distinct change in performance

Upon completion of any service or repairs to this DVR (home terminal), the service technician will perform safety checks to determine that the equipment is in proper operating condition.
Identify your DVR for iO TV

To find the serial number for your DVR for iO TV, look on the back for a label that is similar to the example shown here. The serial number begins with SA and is located in the lower left corner of the bar code.

You can also retrieve the serial number from the TV: Tune to channel 500 and press \[\text{ABC}\quad\text{ABC}\quad\text{ABC}\] keys on your remote, in that order. The serial number will display on the TV screen.

If the DVR for iO TV requires troubleshooting in the future, Cablevision may ask for this serial number.

Use the space provided here to record the serial number:_______________.

Equipment provided by Cablevision is the property of Cablevision and must be returned when customer changes or disconnects cable service. In the event that any equipment is lost, stolen, damaged, destroyed or not returned, Cablevision will charge customer's account in accordance with fee structure outlined within.