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Verizon FiOS TV User Guide



Welcome to Verizon FiOS TV

Congratulations. You made a great choice by subscribing to FiOSSM TV. It's going to revolutionize your television experience.

As a Verizon FiOS TV subscriber, you can unleash the full potential of your television and enjoy the programming selection, picture and sound quality that only fiber-optic technology can deliver.

This guide will help you get the most out of your FiOS TV. You'll learn about our dynamic Interactive Programming Guide (IPG) which helps you control how you watch TV. And find out how to access our extensive Video on Demand library. While you're at it, spend a few minutes getting familiar with your new easy-to-use remote control. If you have our supercharged digital video recorder (DVR), you'll learn how it lets you record TV so you can watch what you want when you want.

Thank you for choosing FiOS TV. Now get ready to experience the power of fiber optics.

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Verizon FiOS Network

The Verizon FiOS Difference: Understanding your new fiber-optic connection

Now that you're hooked up, here's how it works. While traditional telephone and cable TV networks use mostly copper wire and coaxial cable to deliver services, Verizon FiOS is 100% fiber-optic, bringing you state-of-the-art voice, TV and high-speed Internet service. With Verizon FiOS, your home is now ahead of its time.

Verizon FiOS uses hair-thin strands of glass to carry information in the form of laser-generated pulses of light. When those pulses of light reach your home through our network, they are converted into electrical signals in a box installed outside your home called the Optical Network Terminal (ONT). Once the signals have been converted, your home's existing telephone wiring and coaxial cable carry voice and TV signals to your phones and TV sets. Either CAT5 or a combination of CAT5 and coaxial cable is used to carry Verizon FiOS Internet signals. Similarly, when information is sent from your home, those electrical signals are changed into light pulses in the ONT so they can travel to their destinations.

Unlike traditional self-powered telephone or cable television service, your Verizon FiOS service depends on your home's power source.



**Your ONT
when closed.**



**Your ONT
when opened.**

Please note: The ONT has a power cord that goes into your home through the ONT Power Supply Unit, where it plugs into an existing standard electrical outlet.

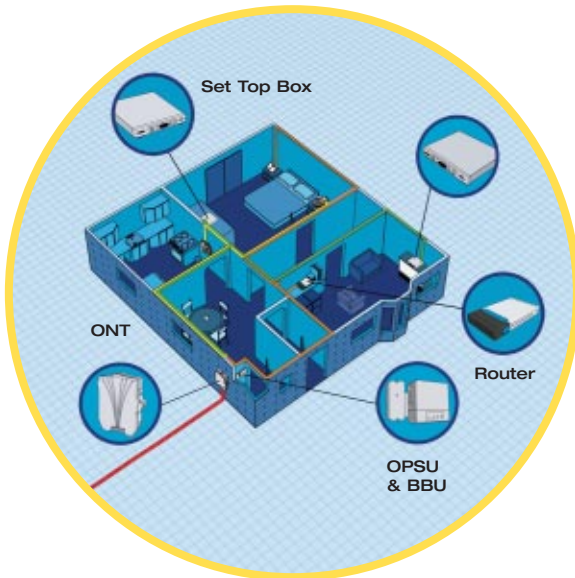
ONT Power Supply Unit (OPSU): Finding your electricity source



Your ONT requires electricity to operate all Verizon services provided on the FiOS network. The OPSU supplies power by connecting your ONT directly to an electrical outlet in your home or garage.

The OPSU contains a single indicator light that tells you if electrical power is present. If the indicator light is dark, electricity is not flowing from the outlet to the ONT. In normal operation, the light should be green.

The ONT requires very little power to operate. In fact, the amount of power needed is as little as what it would take to operate a couple of night-lights.



To ensure connectivity to the Verizon FiOS network, please make sure your ONT Power Supply Unit is plugged in at all times.

Battery Backup Unit (BBU): Continuous power when you need it



In case your ONT Power Supply Unit is accidentally unplugged — or in the event of a commercial power failure — a backup battery has been installed to provide you with power for voice service for approximately four hours. Your BBU was installed in a location in your home or garage where it can be easily monitored — most likely near the OPSU. The BBU is connected directly to the ONT to provide backup power if it's needed. In addition, the BBU contains a series of indicator lights that tell you whether your service is being powered by your home's electricity or the battery.

The BBU also tells you when the battery needs replacing. The average life of your battery is between one and four years, depending on the average temperature of the environment. When your battery does need replacing, you can purchase a sealed lead-acid battery at major electronics outlets and home improvement stores.

BBU Indicator Lights: The meaning behind the signals

Your BBU has four distinct lights to signify certain conditions, as described below. Please take a moment to review them.

System:

Green — Operating normally.

Blinking Green — Battery is going through a self-test.

Yellow — ONT is operating from the battery and the battery is discharging.

Blinking Red — Battery is fully discharged and needs to be replaced.

Please note: Battery disposal standards and requirements vary by state. If you need to replace the sealed lead-acid battery in your Battery Backup Unit, please check the following Environmental Protection Agency resources for proper disposal instructions: visit www.epa.gov/epr/products/batteries.html or call the EPA directly at 1-800-424-9346.

Battery:

Green — ONT is operating normally. BBU is on standby.

Yellow — Battery is either recharging or conducting a self-test, or the BBU is providing power to the ONT.

Red — Battery is low. When this light comes on, approximately two hours of talk time remain.



Replace Battery:

Red — Battery needs to be replaced.

Auxiliary (currently not available):

Green — Auxiliary Battery Pack (ABP) is connected to the BBU.

Off — No ABP is connected.

BBU Audible Alarms:

Listening to help you troubleshoot

Your BBU is also equipped with an audible alarm to inform you of problems with your BBU. The alarm sounds for two seconds and then is silent for 58 seconds. The conditions listed below are the potential reasons for the audible alarm. You can use the alarm in combination with the indicator lights to resolve your BBU issue.

Low Battery — Alarm is silenced if the battery voltage goes above 12V (electrical power has returned), the battery is fully discharged or the battery is removed from the BBU.

Foreign Voltage — Alarm is silenced once the foreign voltage has been properly removed.

Replace Battery — Alarm is silenced when the battery is removed.

Overcurrent — Alarm is silenced once the overcurrent has been properly removed.

Since you are responsible for the management of your battery, it is very important that you familiarize yourself with these light signals and audible alarms, to ensure that you have backup power if it's needed.

Please note: In the event of a power outage, only your telephone service will receive power. Your backup battery will not operate your FiOS TV service or Internet service.

Troubleshooting Tips

If you experience problems with any of your FiOS services, the following checklist could save you a call to the Verizon Fiber Solutions Center. It will also help us get to the root of the problem faster when you do call.

Power:

1. Check to see if you are experiencing a power outage.
2. If there is no power outage, check to see if your OPSU is plugged into an electrical outlet and that the indicator light is illuminated.
3. If the indicator light is not illuminated and the outlet is a Ground Fault Circuit Interrupter (GFCI), make sure it hasn't been tripped. If it has, press the reset button.
4. Check the fuse or circuit breaker to make sure your outlet is working. Reset the circuit breaker or replace the fuse if necessary.
5. After taking these steps, recheck the indicator light on the OPSU to see if it is illuminated. If it is, recheck for service.

Battery:

If you are experiencing a power outage, please review the following:

1. If the Battery indicator light is dark and the System indicator light is yellow, check your battery connection inside the BBU.

2. If the battery is properly connected and the Replace Battery indicator light is red, replace the battery in your BBU, as it is fully discharged.
3. After taking these steps, recheck the BBU indicator lights. If the battery lights are not in normal status, call the Verizon Fiber Solutions Center for assistance at 1-888-553-1555.

Voice Service Test:

If you are still having problems with your voice service, it could be your inside wiring. To find out, take a corded wire-line telephone and a slotted-tip screwdriver to your ONT. Then, open your ONT and remove the wire from the phone jack corresponding to the line in question. Plug your telephone into that phone jack and listen for a dial tone. (If you have only one phone line, plug your phone into jack #1.)



If you hear a dial tone, then the problem may be with your inside wiring. Please contact the Verizon Fiber Solutions Center for assistance. (Charges may apply for the repair of inside wiring.)

If you do not hear a dial tone while at the ONT, you will need to contact the Fiber Solutions Center at 1-888-553-1555. Your technician may ask you to describe the indicator lights inside your ONT in order to diagnose the problem. See the illustration on the following page for an explanation of some of the indicator lights.

Please note: If you do not have voice service with Verizon, you will not be able to perform the Voice Service Test.

Here's a quick guide for reading your ONT Indicator Lights:

Green light:

The battery is connected and the voltage level is adequate.

No light:

The ONT is not operating from the battery or the battery is depleted.

Red light:

The ONT has detected a hardware failure.

Blinking light:

The ONT is not synchronized with the Central Office.

No light:

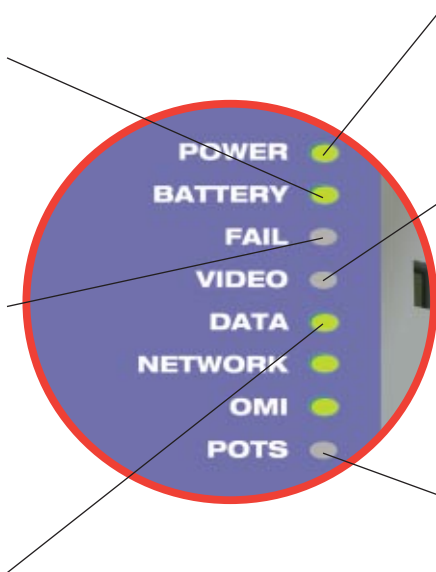
The ONT is fully operational and connected to the Central Office.

Green light:

The ethernet port is transmitting data.

No light:

No activity or the ethernet port is disabled.



Green light:

The main AC power is available.

No light:

There is no power at the ONT.

No light:

Adequate video signal or video port is enabled.

Red light:

The video signal is below the adequate voltage level.

Green light:

At least one telephone is in an off-hook condition.

Blinking light:

At least one telephone has been in an off-hook condition for over an hour.

No light:

All telephones are in an on-hook condition.

Power for services provided on the Verizon FiOS network must be supplied by the customer. Customer is responsible for backup battery replacement. Backup battery does not supply power for Internet or video services. Certain telephones, answering machines and other telephone equipment not meeting industry standards may not work with service provided on the Verizon FiOS network.





Remote Control

Everything You Need to Know about Your New Remote.

Whether you're browsing through channels, recording your favorite shows or ordering the latest hit movies from our extensive Video on Demand (VOD) library, your Verizon FIOS TV universal remote does it all.

Your new remote allows you to enjoy all the advanced features of FIOS TV, such as our state-of-the-art Interactive Programming Guide (IPG). In addition to operating your Verizon FIOS TV Set Top Box (STB), you can use your four-in-one remote control to operate up to three other devices of your choice.

Take a moment to review the capabilities of your new remote below. You'll find everything you need to get started using Verizon FIOS TV.

Easy-To-Use Buttons



get direct access to Pay Per View (PPV).



rewinds VCR, DVD, VOD, DVR or Home Theater System (HTS).



plays VCR, DVD, VOD or DVR.



fast-forwards VCR, DVD, VOD, DVR or HTS.



records to VCR or DVR.



pauses VCR, DVD, VOD or DVR.



stops VCR, DVD, VOD or DVR.



replays the previous few seconds of a program (only available with DVR STB).



displays a list of programs that you recorded (only available with DVR STB).



displays live TV programming (only available with DVR STB).



moves up or down through menu screens on the Interactive Programming Guide (IPG).



these buttons are reserved for future use.



use these keys to enter a channel or device code number. To access channels lower than 100, you may need to enter 3 digits. For example, to access channel 2, press 0-0-2. For channel 22, press 0-2-2.

INPUT

selects the video source.

ASPECT

changes the viewing aspect (if available).

PIP ON/OFF

turns Picture-in-Picture (PIP) on or off (if available).

PIP SWAP

changes the PIP signal to the main display (if available).

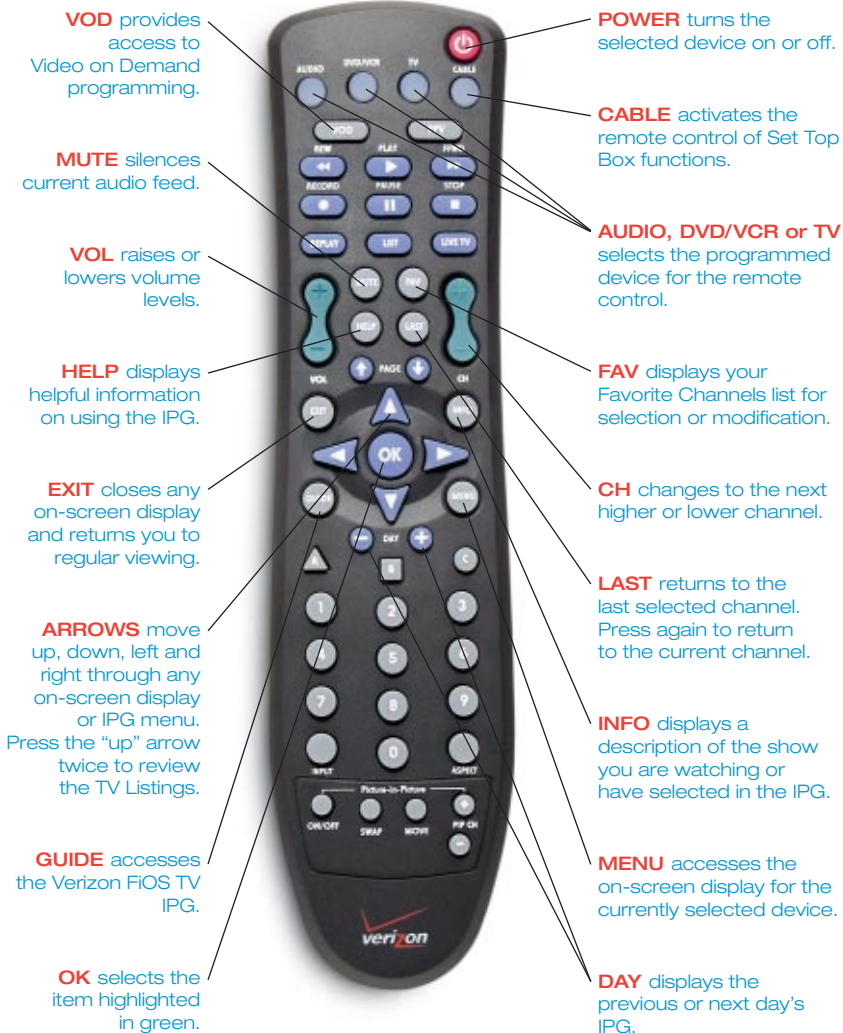
PIP MOVE

moves the position of the PIP display (if available).

PIP +/-

selects the next or previous channel in the PIP display, if available (the main display does not change).

Your Remote Control at a Glance



Using Your Remote Control

Your new remote can control up to four devices. To select the device you'd like it to control, simply press one of the device keys (TV, AUDIO, DVD/VCR or CABLE) at the top of your remote. Then follow programming instructions below.

Programming Device Control

Each of the additional device keys controls a particular type of device. For example, the DVD/VCR key controls your VCR, DVR or DVD player, but not your TV, unless you specify otherwise. (See *Reassigning Device Keys* on page 20.)

To specify a device:

1. Look up the device you want to control in the device code list included in this Guide (see pages 22–27).
2. Press and hold a device key (AUDIO, DVD/VCR or TV) for at least six seconds. The LEDs for each device key light up momentarily and the LED for the device you selected remains on.
3. Enter the four-digit code. The device key LED turns off briefly after each key press.

NOTE: You have 10 seconds to press each digit. If you take longer than that, the remote “times out” and you must begin again.

4. If the remote recognizes the code, the device key's LED blinks three times. You can now test the remote by pressing **POWER**. If your device responds (i.e., turns off), you have found the right code. If your device does not respond, repeat steps 2 and 3 with the next code on the list.

If the remote does not recognize the code, the LED will turn off. Retry the code (by repeating steps 2 and 3 using the next code listed for your brand) or search for a new device code. (See *Searching for Codes* below.)

This Device Key	Controls This Type of Device
TV	TV
DVD/VCR	DVD, VCR, DVR, HTS and Combination sets
CABLE	FIOS TV Set Top Box only
AUDIO	Amplifier, Tuner

Searching for Codes

If none of the codes listed in this guide match your device, you can search for a set of commands that will work.

1. Press and hold a device key (AUDIO, DVD/VCR or TV) for at least six seconds. The LED for each device key lights up momentarily and the key for the device you selected remains on.
2. Press a function key (such as Power or Mute). The following function keys are valid for searching (POWER is recommended):

• **POWER** • **MUTE** • **PLAY** • **CH+** • **STOP**

The device key's LED blinks three times, then turns off.

3. Press **▲** . The remote will send the command for the function you pressed in step 2.
4. If the device performed the function you pressed, press **OK**. The remote will now control the device you selected in step 1. If the device did not perform the function you pressed, repeat step 3. Press **▼** to retry the previous code.

Checking Codes

1. Press and hold a device key (AUDIO, DVD/VCR or TV) for at least six seconds. The LED for each device key lights up momentarily and the key for the device you selected remains on.
2. Enter 9-9-0 to tell the remote you are verifying the device code. The LED blinks twice.
3. Press 1, then count the number of times the LED blinks and write down the number. (If the LED does not blink, the number is 0.) This is the first digit of the device code. Press 2, 3 and 4 to obtain all four digits of the device code.

Tip: Write down the code that worked, in case you must re-code your remote.

DVD/VCR	TV	AUDIO

Changing Volume Lock

Locking the volume controls to a single device makes it easier to control volume without having to guess whether the volume will change. If you lock the remote's volume controls to the TV (for example), you will always be able to change the volume to the level you want, without having to adjust it on multiple devices.

1. Press and hold the device key (TV, AUDIO, DVD/VCR or CABLE) for six seconds. The LED for each device key lights up momentarily and the key for the selected device remains on.
2. Press Volume + (up).

The device key's LED blinks three times, indicating it has locked the volume control to the device you selected. The **AUDIO** device key always controls its own volume, regardless of which device is locked to volume control.

NOTE: If you reassign **AUDIO** to another device, such as a second TV, the second TV will always control its own volume.

Unlocking Volume Control

1. Press and hold the device key (TV, AUDIO, DVD/VCR or CABLE) corresponding to the device currently locked to the volume control for at least six seconds. The LED for each device key lights up momentarily and the key for the selected device remains on.
2. Press Volume - (down).

The device key's LED blinks three times, indicating it has unlocked the volume control for all devices.

Reassigning Device Keys

Each device key accesses a specific type of device (for example, the DVD/VCR key can only be programmed to control a DVD player, VCR, DVR or HTS). This makes it easier to search for a code if your device's code does not appear on the list provided.

Your new remote allows you to change the type of device that may be assigned to a device key. That way, if you have two TVs, for example, you can control them both by changing the type of device the DVD/VCR or AUDIO key controls.

1. Press and hold the device key (TV, AUDIO, DVD/VCR) that corresponds to the device you want the reassigned key to control (for example, TV) for six seconds. The LED for each device key lights up momentarily and the key for the selected device remains on.
2. Enter 9-9-2.
3. Press the device key you want to reassign (for example, AUDIO). That key's LED blinks three times and turns off, indicating that it has been reassigned.

The reassigned key automatically uses the same device code as the key you selected in step 1. If your second device uses a different code, you may program it for the new code. (See *Programming Device Control*.)

NOTE: You may not reassign the CABLE device key to another type of device.

Assigning a key back to its original device type:

1. Press and hold the device key (TV, AUDIO, DVD/VCR) you want to reset to its original type (for example, AUDIO) for at least six seconds. The LED for each device key lights up momentarily and the key for the device you selected remains on.
2. Enter 9-9-2. The device key LED blinks three times and turns off.
3. Press the device key you selected in step 1 again. The LED blinks three times and turns off.
4. Program the restored key to control a device. (See *Programming Device Control*.)

Installing Batteries

Your remote requires two AAA batteries. The first set of batteries is included and should last up to six months under normal usage.

1. Remove the battery case cover and the old batteries (if necessary).
2. Follow the diagram inside the battery case to insert the new batteries.

NOTE: You have 10 minutes to replace the batteries before the remote loses memory.

Operating Range

Your remote controls devices from up to 50 ft. (15 m) away if you are directly in front of the device or from up to 20 ft. (6 m) away if you are off to either side.

Troubleshooting

If you have trouble with your remote, try the following steps, in order:

My remote is not responding.

1. Review the information in *Using Your Remote Control* to make sure that the key you pressed is active for the device you are controlling.
2. Make sure you are controlling the device you think you are. (See *Using Your Remote Control* for more information on choosing a device control.)
3. Make sure your batteries are good. If battery power is low, your remote enters a *Low Battery Condition* to conserve battery power for retaining your settings. (See *Installing Batteries* for more information on changing the batteries.)
4. Reset all settings:
 - Press and hold a device key (TV, AUDIO, DVD/VCR) for at least six seconds. The LED for each device key lights up momentarily and the key for the device you selected remains on.
 - Enter 9-8-1.
 - The LED blinks twice to indicate that your remote has returned to its factory settings. You will need to reset all device code settings. (See *Programming Device Control*.)

Some features may require additional equipment at an additional cost. Your use of FIOS TV will require your acceptance of the Terms of Service, a copy of which will be given to you at the time of installation. The Verizon FIOS TV remote control does not have any user-serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to your remote control. Other terms and conditions apply. ©2005. Verizon. All Rights Reserved.



Device Codes

Audio Amplifiers

Aiwa **0406**
Carver **0269**
Curtis Mathes **0300**
Denon **0160**
GE **0078**
Harman/Kardon **0892**
JVC **0331**
Left Coast **0892**
Linn **0269**
Luxman **0165**
Magnavox **0269**
Marantz **0892, 0321, 0269**
Nakamichi **0321**
Optimus **0395, 0300**
Panasonic **0308**
Philips **0892, 0269**
Pioneer **0300, 0013**
Polk Audio **0892, 0269**
RCA **0300**
Realistic **0395**
Sansui **0321**
Sony **0689, 0220**
Soundesign **0078, 0211**
Technics **0308**
Victor **0331**
Wards **0078, 0211, 0013**
Yamaha **0354**

Set Top Boxes Cable Converters

Director **0476**
General Instrument **0476**
Jerrold **0476**
Motorola **0476, 1376**

Pioneer **1877**
Scientific Atlanta **1877**

Audio Amp Tuners

ADC **0531**
Aiwa **1405, 0158**
Anam **1609**
Audiotronic **1189**
Bose **1229, 0639**
Capetronic **0531**
Carver **1189**
Dell **1383**
Denon **1360, 0004**
Harman/Kardon **0110**
Integra **0135**
JBL **0110**
JVC **0074**
Kenwood **1313, 1570, 1569, 0027, 0239**
Magnavox **1189, 1269, 0039**
MCS **0039**
Nakamichi **0097**
Onkyo **0842, 0135**
Optimus **1023, 0531**
Panasonic **1518, 0039**
Philips **1189, 1269**
Pioneer **1023, 0531, 0014**
Proscan **1254**
Quasar **0039**
RCA **1023, 1609, 1254, 0531**
Rio **1383**
Sonic Blue **1383**
Sony **1058, 1441, 1258, 1759, 0158, 1406**
Stereophonics **1023**

Sunfire **1313**
Technics **1308, 1518, 0039**
Thorens **1189**
Victor **0074**
Wards **0158, 0014**
Yamaha **0176, 1176**

TVs

A-Mark **0003**
Abex **0032**
Admiral **0093, 0463**
Advent **0761, 0783, 0842, 0817, 0815**
Adventura **0046**
Aiko **0092**
Aiwa **0701**
Akai **0702, 0030, 0672**
Aleron **0179**
Albatron **0843, 0700**
Ambassador **0177**
America Action **0180**
Anam **0180**
Anam National **0055**
AOC **0030, 0052, 0003, 0185**
Apex Digital **0748, 0765**
Archer **0003**
Audiovox **0451, 0180, 0092, 0623, 0003**
Bell & Howell **0154, 0016**
Bradford **0180**
Broksonic **0236, 0463, 0003**
Candle **0030, 0056, 0046**
Carnivale **0030**
Carver **0054**

TVs (continued)

Celebrity 0000

Celera 0765

Changhong 0765

Citizen 0060, 0030,
0092, 0039, 0056,
0046

Clairtone 0185

Clarion 0180

Concerto 0056

Contec 0180, 0185,
0157

Craig 0180

Crosley 0054

Crown 0180, 0039

Curtis Mathes 0047,
0054, 0154, 0451,
0093, 0060, 0702,
0030, 0145, 0166,
0056, 0016, 0466,
0039

CXC 0180

Daewoo 0451, 1661,
0092, 0672, 0623,
0039

Denon 0145

Dumont 0017

Durabrand 0180, 0178,
0003

Electrobrand 0000,
0185

Emerson 0154, 0236,
0463, 0180, 0178,
0171, 0623, 0185

Envision 0030, 0813

Fisher 0154, 0159

Fujitsu 0683, 0179,
0809, 0853

Funai 0180, 0171, 0179

Futuretech 0180

Gateway 1756, 1755

GE 0047, 0051, 0451,
0178, 0055, 0135,
0027, 0282, 0021

Gibraltar 0017, 0030

GoldStar 0030, 0178,
0001, 0032

Grumpy 0180, 0179

Haier 0768

Hallmark 0178

Harley-Davidson 0179

Harman/Kardon 0054

Harvard 0180

Havermey 0093

Hello Kitty 0451

Himitsu 0180

Hisense 0748

Hitachi 0145, 0151,
0032, 0016, 0056,
0038

Hyundai 0849

Infinity 0054

Inteq Janeil 0046

JBL 0054

JCB 0000

Jensen 0761, 0817,
0815

JVC 0053

Kaypani 0052

KEC 0180

Kenwood 0030

KLH 0765

Kloss 0046, 0024

Konka 0707, 0632,
0628

KTV 0180, 0030,
0039, 0185

LG 0856

LXI 0047, 0054, 0154,
0156, 0178

Logik 0016

Luxman 0056

Magnavox 0054,
0030, 0706, 0020,
0187, 0179, 0024,
0096

Majestic 0016

Marantz 0054, 0030,
0855, 0704

Matsushita 0250, 0650

Megatron 0178, 0145,
0003

MEI 0185

Memorex 0154, 0250,
0463, 0150, 0178,
0179, 0016

MGA 0150, 0030, 0178

Midland 0047, 0017,
0051, 0035, 0032

Minutz 0021

Mitsubishi 0093, 0150,
1250, 0178

Monivision 0843, 0700

Motorola 0835, 0093,
0055

Moxell 0835

MTC 0060, 0030,
0185

Multitech 0180

NAD 0156, 0178, 0866

NEC 0030, 1704, 0056

Nikko 0030, 1704,
0056

Norcent 0748, 0824

Noshi 0018, 0092

Onwa 0180

Optimus 0154, 0250,
0166, 0650

Optonica 0093, 0165

Orion 0236, 0463,
0179

Panasonic 0250, 0051,
0055, 0650

Penney 0047, 0156,
0051, 0060, 0030,
0178, 0032, 0018,
0135, 0003, 0027,
0039, 0021

Philco 0054, 0030,
0020, 0096

Philips 0054, 0690

Pilot 0030, 0039

TVs (continued)

Pioneer **0166, 0038, 0866, 0679**

Portland **0092, 0039**

Prima **0761, 0817, 0815, 0783**

Princeton **0700**

Prism **0051**

Proscan **0047**

Proton **0178, 0466, 0052, 0003**

Proview **0835**

Pulsar **0017**

Quasar **0250, 0051, 0165, 0055, 0650**

RadioShack **0047, 0154, 0180, 0030, 0178, 0032, 0056, 0765**

RCA **0047, 0679, 0038, 0135, 0018, 0090**

Realistic **0154, 0180, 0030, 0178, 0039, 0165, 0032, 0056**

Rhapsody **0185**

Runco **0017, 0030**

Sampo **0030, 0032, 1755, 0052, 0039**

Samsung **0060, 0702, 0030, 0178, 0056, 0032, 0766**

Samsux **0039**

Sansui **0463**

Sanyo **0154, 0146, 0159**

Scotch **0178**

Scott **0236, 0180, 0178, 0179**

Sears **0047, 0054, 0154, 0156, 0178, 0171, 0146, 0159, 0179, 0056**

Sharp **0093, 0039, 0165, 0157**

Sheng Chia **0093**

Signature **0016**

Simpson **0187**

Sony **0000, 0111, 0080**

Soundesign **0180, 0178, 0179**

Spectricon **0003**

Squareview **0171**

SSS **0180**

Supre-Macy **0046**

Supreme **0000**

SVA **0748, 0768**

Sylvania **0054, 0030, 0171, 0020, 0096**

Symphonic **0180, 0171**

Tandy **0093**

Tatung **0055, 0003**

Technics **0250, 0051**

Technol Ace **0179**

Techview **0847**

Techwood **0051, 0003, 0056**

Teknika **0054, 0180, 0150, 0060, 0039, 0179, 0016, 0056, 0092**

Telefunken **0702, 0056**

TMK **0178, 0056, 0177**

TNG **0017**

Toshiba **0154, 0156, 0060, 1704, 0650**

Tosonic **0185**

Totevision **0039**

Trical **0157**

TVS **0463**

Universal **0027**

Vector Research **0030**

Victor **0053**

Vidikron **0054**

Vidtech **0178**

Viewsonic **1755**

Viking **0046**

Wards **0054, 0030, 0178, 0111, 0179, 0021, 0096, 0020, 0080, 0165, 0866, 0016, 0027, 0056**

Waycon **0156**

White Westinghouse **0463, 0623**

Yamaha **0030**

Zenith **0017, 0463, 0178, 0016, 0092**

Zonda **0003**

VCRs

Admiral **0048, 0209**

Adventura **0000**

Aiko **0278**

Aiwa **0037, 0000**

Akai **0041**

American Action **0278**

American High **0035**

Asha **0240**

Audiovox **0037, 0278**

Beaumarck **0240**

Bell & Howell **0104**

Broksonic **0184, 0121, 0209, 0002, 1479, 0479**

Calix **0037**

Canon **0035**

Carver **0081**

CCE **0072, 0278**

Citizen **0037, 0278, 1278**

Colt **0072**

Craig **0037, 0047, 0240, 0072**

Curtis Mathes **0060, 0035, 0162, 0041, 1035**

Cybernex **0240**

Daewoo **0045, 0278, 1278**

Denon **0042**

VCRs (continued)

Durabrand **0039, 0038**

Dynatech **0000**

Electrohome **0037**

Electroponic **0037**

Emerex **0032**

Emerson **0037, 0184, 0000, 0121, 0043, 0209, 0002, 0278, 0479, 1479, 1278**

Fisher **0047, 0104**

Fuji **0035, 0033**

Funai **0000**

Garrard **0000**

GE **0060, 0035, 0240, 1035, 0807, 1060**

Go Video **0432**

GoldStar **0037, 0038, 1237**

Gradiente **0000**

Harley-Davidson **0000**

Harman/Kardon **0081, 0038**

Harwood **0072**

HI-Q **0047**

Hitachi **0000, 0042, 0041**

Hughes Network Systems **0042**

Jensen **0041**

JVC **0067, 0041**

KEC **0037, 0278**

Kenwood **0067, 0041, 0038**

KLH **0072**

Kodak **0035, 0037**

Lloyd's **0000**

Logik **0072**

LXI **0037**

Magnasonic **1278**

Magnavox **0035, 0039, 0081, 0000, 0149, 1781**

Magnin **0240**

Marantz **0035, 0081**

Marta **0037**

Matsushita **0035, 0162**

MEI **0035**

Memorex **0035, 0162, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 1237, 0479**

MGA **0240, 0043**

MGN Technology **0240**

Minolta **0042**

Mitsubishi **0067, 0043, 0807**

Motorola **0035, 0048**

MTC **0240, 0000**

Multitech **0000, 0072**

NEC **0104, 0067, 0041, 0038**

Nikko **0037**

Noblex **0240**

Olympus **0035**

Optimus **0162, 0037, 0048, 0104, 0432**

Orion **0184, 0209, 0002, 1479, 0479**

Panasonic **0035, 0162, 1035, 0616, 0225**

Penney **0035, 0037, 0240, 0042, 0038, 1035, 1237**

Pentax **0042**

Philco **0035**

Philips **0035, 0081, 0618**

Pilot **0037**

Pioneer **0067**

Polk Audio **0081**

Profitronic **0240**

Proscan **0060, 1060**

Protec **0072**

Pulsar **0039**

Quasar **0035, 0162, 1035**

RadioShack **0000**

Radix **0037**

Randex **0037**

RCA **0060, 0240, 0042, 0149, 0880, 0807, 1060, 1035**

Realistic **0035, 0037, 0048, 0047, 0000, 0104**

Replay TV **0614, 0616**

Runco **0039**

Samsung **0240, 0045, 1014**

Sanky **0048, 0039**

Sansui **0000, 0067, 0209, 0041, 1479, 0479**

Sanyo **0047, 0240, 0104**

Scott **0184, 0045, 0121, 0043**

Sears **0035, 0037, 0047, 0000, 0042, 0104, 1237**

Sharp **0048, 0807**

Shintom **0072**

Shogun **0240**

Singer **0072**

Sonic Blue **0616, 0614**

Sony **0035, 0032, 0033, 0000, 0636, 1232**

STS **0042**

Sylvania **0035, 0081, 0000, 0043, 1781**

Symphonic **0000**

Tatung **0041**

Teac **0000, 0041**

Technics **0035, 0162**

Teknika **0035, 0037, 0000**

VCRs (continued)

Thomas 0000
Tivo 0636, 0618, 1503
TMK 0240
Toshiba 0045, 0043, 1503, 1145
Totevision 0037, 0240
Unitech 0240
Vector 0045
Vector Research 0038
Video Concepts 0045
Videomagic 0037
Videosonic 0240
Villain 0000
Wards 0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042, 00720149
White Westinghouse 0209, 0072
XR-1000 0035, 0000, 0072
Yamaha 0038
Zenith 0039, 0033, 0000, 0209, 1479, 0479

TV/VCR Combination Devices

America Action 0278
Audiovox 0278
Broksonic 0002, 1479, 0479
Citizen 1278
Colt 0072
Curtis Mathes 1035
Daewoo 1278
Emerson 0002, 1278, 0479, 1479
Funai 0000
GE 0240, 0807, 1060, 1035
GoldStar 1237
Harley-Davidson 0000

Hitachi 0000
Lloyd's 0000
Magnasonic 1278
Magnavox 0000, 1781
Magnin 0240
Memorex 0162, 1237
MGA 0240
Mitsubishi 0807
Optimus 0162
Orion 0002, 1479, 0479
Panasonic 0162, 1035
Penney 0240, 1035, 1237
Quasar 0162, 1035
RadioShack 0000
RCA 0240, 0807, 1060, 1035
Samsung 1014
Sansui 0000, 1479, 0479
Sanyo 0240
Sears 0000, 1237
Sony 0000, 1232
Sylvania 1781
Symphonic 0000
Thomas 0000
Toshiba 1145
Zenith 0000, 1479, 0479

TV/VCR/DVD Combination Devices

Broksonic 0868
Emerson 0821
Panasonic 1362
Sharp 0630, 0807
Sylvania 0821
Toshiba 1045
DVRs
Panasonic 0616

Philips 0618
ReplayTV 0616, 0614
Sonic Blue 0616, 0614
Sony 0636
Tivo 0636, 0618
DVD/VCR Combination Devices
Allegro 0869
Apex Digital 1061
Daewoo 0833
Go Video 0715
Hitachi 0664, 0000
JVC 0867
Memorex 0695
Panasonic 1762
RCA 0060
Samsung 1075, 0820
Sansui 0695
Sanyo 0873, 0104
Sharp 0630
Sony 0864
Sylvania 0675, 0000
Toshiba 0503
Zenith 0869
DVDs
Advent 1016
Allegro 0869
Apex Digital 0672, 0717, 1100, 0796, 1061, 0794, 0830, 1915, 0755, 0797
Audiovox 0790
Blaupunkt 0717
Blue Parade 0571
Broksonic 0868, 0695
CineVision 0876
Curtis Mathes 1087
CyberHome 0816
Daewoo 0784, 0833

DVDs (continued)

Denon **0490**
DVD2000 **0521**
Emerson **0591, 0821, 0675**
Enterprise **0591**
Fisher **0670**
Funai **0675**
GE **0522, 0815, 0717**
Go Video **0783, 0715**
GPX **0699**
Greenhill **0717**
Harman/Kardon **0582**
Hitachi **0573, 0664**
Hiteker **0672**
Initial **0717**
Jenson **1016**
JVC **0558, 0623, 0867, 1901**
Kenwood **0490, 0534**
KLH **0717, 1020, 0790**
Koss **0651**
Lasonic **0798**
Lite-On **0503, 1976, 0675**
Marantz **0539**
Memorex **0695**
Microsoft **0522**
Mintek **0839, 0717**
Mitsubishi **1521, 0521**
Motorola **1042**
Moxell **1042**
Nesa **0717**
Norcent **1003**
Onkyo **0503**
Oritron **0651**
Panasonic **0490, 0632, 1907, 1762, 1362**
Philips **0503, 0539, 0646, 0854, 0885**

Pioneer **0525, 0571, 1902, 0632**
Polk Audio **0539**
Prima **1016**
Proscan **0522**
Proview **1042**
Qwestar **0651**
RCA **0522, 0571, 0717, 0790, 1022, 0822**
Rio **0869**
Rotel **0623**
Samsung **0573, 0820, 1932, 1075, 0899**
Sansui **0695**
Sanyo **0695, 0670, 0873**
Sharp **0630**
Shinsonic **0533, 0839**
Sonic Blue **0869**
Sony **0533, 0864, 1934, 1903**
Sylvania **0675, 0821**
Symphonic **0675**
Teac **0790**
Technics **0490**
Theta Digital **0571**
Toshiba **0503, 1045, 0695**
Tredex **0799**
Urban Concepts **0503**
Venturer **0790**
Xbox **0522**
Yamaha **0490, 0539, 0545**
Zenith **0503, 0591, 0869**

TV/DVD Combination Devices


Advent **1016**
Apex Digital **0830**
Broksonic **0695**

Jensen **1016**
Philips **0854**
Prima **1016**
RCA **1022**
Samsung **0899**
Sylvania **0675**
Toshiba **0695**

Home Theater Systems (HTS)

Spex Digital **1915**
Audiovox **0790**
JVC **1901**
KLH **0790**
Koss **0651**
Magnavox **1976**
Oritron **0651**
Panasonic **1907**
Philips **0885**
Pioneer **1902**
Polk Audio **0539**
RCA **0790**
Rio **0869**
Samsung **1932**
Sonic Blue **0869**
Sony **1934, 1903**
Teac **0790**
Venturer **0790**





Interactive Programming Guide

Introduction

Prepare to unleash the full potential of FiOS TV. This next-generation TV service, with its Interactive Programming Guide (IPG), delivers more entertainment choices to your TV screen than ever before. Flip through your favorite channels with the click of a button. Or search by actor or title in a flash.

But that's just the beginning. With Verizon FiOS TV, you can enjoy advances in entertainment technology like High Definition TV (HDTV) and Digital Video Recording (DVR).

FiOS TV is the latest technology. It's exciting. And it's easy to use. Just a few clicks of the remote are all it takes to get started. Keep this guide handy while watching TV. It contains an overview of the most important features of the FiOS TV IPG and remote control.

Use your remote control to move quickly and easily through the IPG's many features. Detailed descriptions of its functions are listed below. Or just remember these few simple rules:

- To use the IPG, turn on the Set Top Box by pressing the **CABLE** button on the remote control. Then press the **POWER** button.
- Press **GUIDE** to go directly to program listings.
- The **MENU** button takes you to the Main Menu of the Verizon FiOS TV IPG.
- Any on-screen item highlighted in green can be selected by pressing the **OK** button.
- Use the four **ARROW** buttons to move the highlight to the right, left, up or down. Once the item you want is highlighted, press **OK** to select it.
- Press **EXIT** at any time to exit the menu and return to watching TV.

FAV

displays your Favorite Channels list for selection or modification.

MUTE

silences current audio feed.

VOL

raises or lowers volume level.

HELP

displays helpful information about using the IPG.

OK

selects the item highlighted in green.

GUIDE

displays program listings.

Power

turns the selected device on or off.

CABLE

activates the remote control of Set Top Box functions.

CH

changes to the next higher or lower channel.

INFO

displays a description of the show you are watching or have selected in the IPG.

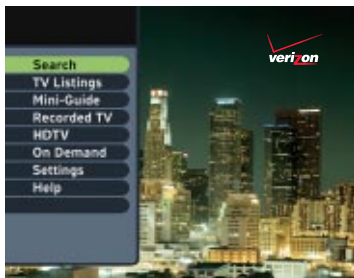
MENU

accesses the IPG Main Menu when the Set Top Box is the selected device.



Main Menu

The Main Menu is the first menu you'll see when accessing your IPG. Once you press **POWER** on the remote to turn on the Set Top Box, press **MENU** for a broad overview of your entertainment choices. From here, you can access all the features and functions of the FiOS TV IPG. Just highlight the menu option you want and press **OK**.



Search

You can search the TV Listings for a show by:

- Day and Time
- Program Title
- Actor or Topic
- Category (including Sports, Pay Per View and HDTV)



You can search for a Program Title, Actor or Topic by using the on-screen keyboard to enter a program title or keyword. Use the **ARROW** buttons on your remote control to highlight the desired letter, press **OK**, then select the next letter and so on.

Once a show has been found, it can be selected for immediate viewing (if available).* Or, you can set a Reminder** to watch it later.

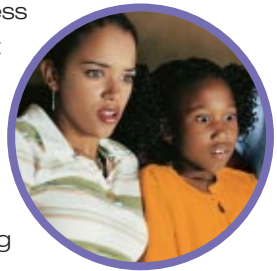
If you have the Digital Video Recorder Set Top Box, you can schedule the show for recording by selecting the show and pressing the **RECORD** button.

TV Listings

TV Listings displays a list of the programs available to watch at the present time, and for up to 14 days thereafter. To access this list, press the **GUIDE** button on your remote control, or select **TV LISTINGS** from the Main Menu.



1. Use the remote to navigate the TV Listings while browsing through the programs.
2. For a description of any program listed, select it and press the **INFO** button on your remote control.
3. Use ▲ or ▼ to move through the program listings by channel.
4. Use ► or ◀ to change the time of day displayed.
5. Press ► to expand the view to 90 minutes.
6. Press and hold ► to skip ahead rapidly to a later time.
7. Use **PAGE** ▲ or ▼ to move through the program listings one page at a time.
8. Highlight the show you wish to watch and press **OK** on your remote control. If the show is not scheduled to be broadcast until later, you can set a Reminder** to watch it later.
9. If you have the Digital Video Recorder Set Top Box, you can schedule the show for recording by selecting the show and pressing the **RECORD** button.



*When using the Search feature, the IPG may find programming on channels to which you are not subscribed.

**The DVR Set Top Box cannot set Reminders. See *Quick Tips*.

Video on Demand

Video on Demand is programming that is available for you to watch anytime (and as many times as you like) within a set rental period. Simply select **ON DEMAND** from the Main Menu (or choose Channel 900 from the TV Listings) to see the VOD titles that are currently available. Select a program you want to watch and follow the instructions to either complete your purchase or start watching the free or subscription VOD program.



Mini-Guide

The Mini-Guide displays program listings while allowing you to watch TV at the same time. Navigate through the Mini-Guide exactly as you do in the TV Listings. You can access the Mini-Guide through the Main Menu or through the shortcuts below.



- While watching TV, press ► twice to view a one-line version of the Mini-Guide. The Mini-Guide will display information on the show you're currently watching. Press ▲ or ▼ to expand to four channels of listings.
- While watching TV, press ▲ twice to view a four-channel version of the Mini-Guide.

Help

If you have questions on using Parental Controls, Video on Demand or any of the many features of the IPG, you can go to the Help Menu for answers. You'll find detailed information and instructional videos to help you get the most out of FIOS TV.



High Definition Television (HDTV)

Now you can enjoy the awesome picture quality of HDTV via Verizon FIOS TV (if you have an HD-ready TV and either the High Definition or DVR Set Top Box).



Easily search the TV Listings for shows being offered in HDTV. They are identified by an HD symbol at the end of the program and can easily be found using the HDTV category in the Search Menu.

Digital Video Recorder (DVR)

With the DVR Set Top Box from Verizon FIOS TV, you can record a favorite show — or an entire series — with just a couple of clicks on your remote. You can also use your remote to control live TV. That's right: pause, rewind, then fast forward through the show you're watching.



DVR (continued)

The Verizon FiOS TV DVR has dual-tuner capability, so you can record two programs at the same time or watch one program while recording another.

Record an upcoming show by finding it in the TV Listings, highlighting it, and then pressing the **RECORD** button on your remote control. Recording takes place automatically.

Smart **SERIES RECORDING** lets you record every episode of your favorite series automatically — even if they're shown at different times and on different days.

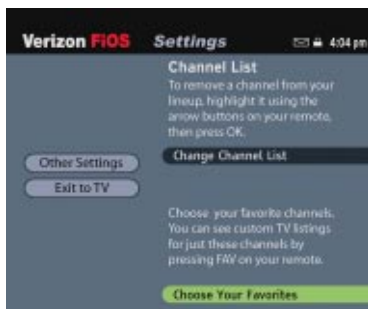
View shows you've recorded by pressing the **LIST** button on your remote and selecting a show for viewing. Or select **RECORDED TV** from the Main Menu.

Not sure if you have the FiOS TV DVR? You'll know that you do if **RECORDED TV** appears on the Main Menu. For a more complete description of DVR features, please see pages 42–47.

Settings

The Settings Menu allows you to:

- Define your Favorite Channels, which can be easily accessed by pressing the **FAV** button on the remote.
- Remove channels you don't want to see in your channel lineup.
- Choose a different language for the TV Listings text and for TV audio.
- Receive messages from Verizon FiOS TV.



- Set up Parental Controls with a personalized PIN.
- Review Pay Per View and Video on Demand purchases.
- Change audio output characteristics. (See *Quick Tips*, pages 38–39.)

Parental Controls

The FiOS TV IPG provides the ability to control and manage the programs and content that come into your home.

With Parental Controls, it's easy to:

- Selectively block programming by channel, rating or category.
- Selectively block Pay Per View and Video on Demand purchases.
- Set up two different user-defined PINs (one for purchases and one to block programs.)
- Hide adult programming from the TV Listings.



When programs with a particular rating level are blocked, the IPG automatically blocks the higher ratings.

Also, if you have the DVR STB, programs recorded with a PIN require the PIN to be entered in order to play back the recorded program.

Quick Tips: How do I...

Access Video on Demand (VOD)?

Video on Demand is programming that is available for you to watch anytime (and as many times as you like) within a set rental period. Simply select **ON DEMAND** from the Main Menu (or choose Channel 900 from the TV Listings) to see the VOD titles that are currently available. Select a program you want to watch and simply follow the on-screen instructions.

Purchase Pay Per View programs?

Pay Per View allows you to see the latest hit events in just a couple of easy steps with your remote. Pay Per View programs are offered at specific showtimes, so if you want to see what's playing, just select **SEARCH** from the Main Menu and then select **PAY PER VIEW**.

Subscribers with DVR capability (see below) can automatically record a Pay Per View offering for viewing at a later, more convenient time.

Use the Digital Video Recorder (DVR)?

If you have the DVR Set Top Box (STB) with your FiOS TV service, it's a snap to record a TV show or even an entire series — without tapes. The programs are stored directly on your STB. You can rewind or pause live TV — making it TV on your time.

With dual-tuner capability, you can even record two programs at the same time, or watch one live TV program while recording another.

You'll know that you have DVR capability if **RECORDED TV** appears on the Main Menu. For a more complete description of DVR features, please check out pages 42–47.

View a program in High Definition TV (HDTV)?

More and more people are entering the new era of High Definition Television — and FiOS TV can be your gateway. If you have an HD-ready TV, and if you chose either the High Definition or DVR Set Top Box, then you're ready to enjoy the incredible picture quality this new technology has to offer.

Shows being offered in HDTV are identified in the TV Listings by the HD symbol at the end of the program description and can easily be found by selecting **HDTV** from **SEARCH BY CATEGORY**.

You can also look at your channel lineup to see where you can find the specially designated high definition channels.

Channel surf?

With the IPG, you can zip through channels quickly. Just press and hold the **CH** button on the remote until you see the title of a show you want to watch, then release.


Block out material that's not suitable for children?

Many parents are concerned about the programming their children watch. Our Parental Controls feature lets you do something about it. Select **SETTINGS** from the Main Menu, and then select **PARENTAL CONTROLS**.

From there, you'll be able to block access to shows either by channel or by rating, and can choose to hide or show adult titles. You will be able to create a Personal Identification Number (PIN) to ensure that the controls you set won't be changed without your approval. And, you can use the same PIN or create an additional one to block unauthorized Pay Per View and VOD purchases.

Set a Reminder?

Find a show you want to watch in the future using the TV Listings, the Mini-Guide or any of the Search functions. Select the show and press **OK**. Then select **SET REMINDER** and press **OK**. The IPG will remind you with an on-screen message two minutes before the show begins. To cancel the Reminder, select **CLEAR REMINDER** and press **OK**.

Shows for which Reminders have been set appear in the program listings with the  symbol in front of their titles.

Note: Since the FIOS TV DVR gives you the ability to schedule a program to record automatically, you won't ever have to miss a show you want to watch. Just highlight a show you want to watch in the future and press **RECORD** on your remote control. You can then decide if you want to record the entire series, and whether to add padding at the beginning or end of the show.

Create and use a list of my Favorite Channels?

To create your Favorite Channels list, press the **FAV** button on the remote. You'll see a program listing made up of all available channels. Use the **ARROW** buttons to highlight each channel you want included on your list. Press **OK** to add a check mark next to it. Only the checked channels appear in the Favorites list.

Select one of my Favorite Channels?

Press the **FAV** button on your remote. You'll see a program listing made up of only your Favorite Channels. Choose a program to watch by scrolling with the **▲** and **▼** **ARROW** buttons and pressing **OK**.

Edit my Favorite Channels list?

Press the **FAV** button on your remote. Choose **MY FAVORITES** and use the **ARROW** buttons to highlight each channel in turn. Then press **OK** to add (or delete) a check mark next to it. Only the checked channels appear in the Favorites list.

Not all services and features may be available and some may require additional equipment at an additional cost. Your use of FIOS TV will require your acceptance of the Terms of Service, a copy of which will be given to you at the time of installation. Other terms and conditions apply. ©2005. Verizon. All Rights Reserved.

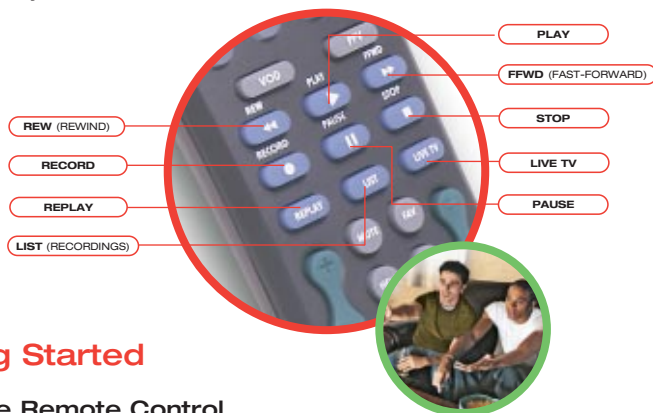




Digital Video Recorder

Digital Video Recording lets you control the show.

Your FiOS TV Digital Video Recorder (DVR) represents an entirely new way to enjoy watching television. You can pause and rewind live TV — and even record one show while watching another. It puts you in control of your TV viewing schedule, enabling you to watch what you want, when you want.



Getting Started

Using the Remote Control

Your remote control has special buttons designed for managing all the features of the DVR.

Use the remote control buttons (**PLAY**, **STOP**, **PAUSE**, **RECORD**, **REW**, **FFWD**) just as you would on a VCR, to control digital recording and playback of recorded programs and live TV.

Several other buttons (**REPLAY**, **LIST**, **LIVE TV**) have exclusive DVR functions, which are described in this guide.

Recording Capacity

Your DVR is designed to record up to 120 hours of standard definition digital TV programming. Recording analog or High Definition TV (HDTV) programs will substantially reduce this capacity (due to the format of analog programming and the much larger amount of information in an HDTV broadcast stream).

Selecting an Item with the Remote Control

In this guide, “Select” means to highlight an on-screen item by moving to it with the **ARROW** buttons and then pressing **OK**.

Recording TV



Record a Show That’s Currently Playing

Record the show you are watching by pressing **RECORD** on the remote. A red indicator appears in the upper right corner of the screen for a few seconds to let you know that recording has started. Since the DVR continuously stores in its memory the channel that you’re watching from the time you first tune it in, the portion of the show



that you watched prior to pressing the **RECORD** button will also be recorded, up to the limit of the internal memory. (Program limits: Standard Definition = 70 minutes; High Definition = 18 minutes.)

Schedule Recording of an Upcoming Show or Series

Use the **ARROW** buttons to highlight the show you wish to record in the TV Listings. Or use **SEARCH** to find and select a show. Press **RECORD** on your remote. A red dot will appear after the show title in the listings.

Shrek 2



11/10 1 Hr 32 Min

example

If the show is part of a series, you can schedule recording of each episode of the entire series by pressing **RECORD** a second time. With our smart **SERIES RECORDING** feature, each show in the series will be automatically recorded, even if its time slot or length is changed by the broadcaster. Three red dots indicate **SERIES RECORDING** has been scheduled (pressing **RECORD** a third time will cancel the scheduled recording).

Desperate Housewives



11/10 1 Hr 0 Min

example

You can choose whether to record only first-run episodes, whether to add padding at the beginning or end of a show, or whether to permanently save a show.

In addition, a **SERIES PRIORITY** feature lets you rank the series you want to record, so that the DVR automatically resolves schedule conflicts, before they occur.



Review or Cancel Scheduled Recordings of Shows or Series

Select **RECORDED TV** from the **MENU**. The list of shows scheduled to be recorded can be seen under the heading **SCHEDULED**. Or choose **SERIES MANAGER** and then **SCHEDULED SERIES** to see a list of series that are scheduled for recording. You will also see a reminder about how much recording capacity you have used.

To cancel a scheduled recording, select the show or series to be cancelled. Select **CANCEL RECORDING** or **CANCEL SERIES**, depending on which you choose to cancel. Press **EXIT** on your remote to resume watching live TV.

Play a Recorded Show

Select **RECORDED TV** from the Main Menu. Highlight a program that you want to watch on the list of recorded programs, press the **OK** button and select **PLAY**.

Pause/Rewind/Fast-Forward a Recorded Show

Use the **PAUSE**, **REW**, **FFWD**, **STOP** and **PLAY** buttons on your remote to control playback of a recorded program, exactly as you would with a VCR. When you use any of these buttons, the Progress Bar (see *Progress Bar* on page 47) will always appear to show you exactly where you are in the program.

Multiple speeds of fast-forward and rewind can be accessed by

pressing the **REW** or **FFWD** buttons more than once. Press once for 3x speed, twice for 15x, three times for 60x and four times for 300x.



Keep or Delete a Recorded Show

Select **RECORDED TV** from the Main Menu.

Highlight a program that you want to delete from the list of **DVR RECORDINGS** and select **ERASE RECORDING**.

Once the recording space becomes full, the DVR will automatically delete the oldest shows to make space for new recordings. To prevent the DVR from deleting a recording when it needs more space, select **RECORDED TV** from the Main Menu, choose a program that you want to keep and then select the **SAVE UNTIL** button.

Record High Definition TV Shows

Recording a show broadcast in HDTV is accomplished in the same way as recording a normal TV show (see *Recording TV*). Note: Due to the larger amount of information in an HDTV broadcast, your DVR will hold fewer hours of HDTV programming.

Record Pay Per View Programs



A Pay Per View program can be recorded with the DVR for later viewing. Simply press the **RECORD** button on your remote when the Pay Per View program begins. You can also schedule future Pay Per View shows to be automatically recorded. Just choose the **PURCHASE AND RECORD** option when selecting a show. It will automatically be recorded and ready for you to watch when you want.

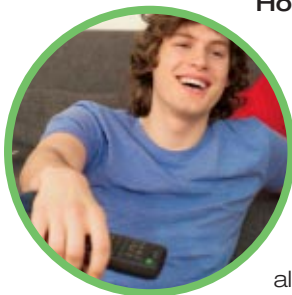
Dual-tuner Feature

Your Verizon FiOS TV Set Top Box is equipped with dual tuners, so you can:

- Record two different shows at the same time, even while watching an earlier recorded show.
- Record a show while watching a Video on Demand movie.
- Record one show while watching a different live show.

Controlling Live TV with the DVR

How the DVR Handles Live TV



Whenever you tune in to a Verizon FIOS TV channel, the DVR instantly begins storing the show in its internal memory and will continue to do so until you tune to a different channel. At this point, it discards the previous channel's show and begins storing the new one. This memory technology allows you to control live TV in the ways described below. Once the internal memory is full, it will progressively store the most recent portion of that channel's show, discarding the oldest.

Pause or Resume Live TV; Frame Advance

Press **PAUSE** on your remote to freeze the TV show you're watching. Pressing the **PAUSE** button repeatedly will advance the video one frame at a time. When you're ready, press **PLAY** to resume the show where you left off.



Rewind or Fast-Forward Live TV

Press **REW** on your remote to rewind the show you're watching to an earlier point in time. (The DVR continues to store the live broadcast in its memory.) You can only rewind as far back in time as when you first tuned in to this channel, up to the limit of the internal memory. Press **PLAY** to resume watching from the desired point in the show.



Press **FFWD** to fast-forward a previously paused live TV show. Press **PLAY** to resume watching.



Pressing **REW** or **FFWD** up to four times allows you to increase the speed at which you rewind or fast-forward a program. Press once for 3x speed, twice for 15x, three times for 60x and four times for 300x.



Pause Live TV

Press **PAUSE**, then **FFWD** or **REW** for a slow-motion, fast-forward or rewind effect.



Replay Live TV

REPLAY

Press the **REPLAY** button on your remote for an instant replay of the last seven seconds of the show you're watching, whether it's live TV or a previously recorded show.

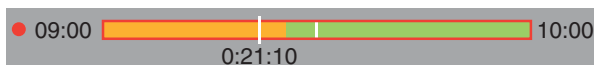
Resume Watching Live TV

LIVE TV

If you're watching a live program delayed by pausing or rewinding live TV, pressing the **LIVE TV** button jumps the show forward to the point currently being broadcast.

The Progress Bar

The Progress Bar (shown below) appears whenever you pause, rewind or fast-forward a live or recorded program. It shows how much of the current show is stored in memory (orange bar), as well as what point of the show you're viewing now (white line) and how far behind the live broadcast you are (end of orange bar).



Not all services are available in all areas. Acceptance of the FiOS TV Terms of Service is required in order to use FiOS TV. The terms and conditions regarding your use of FiOS TV are subject to change. Due to certain copyright restrictions, the Digital Video Recorder may not be able to record all programs. Recording times are estimated. Verizon cannot guarantee the exact amount of programming that each subscriber will be able to record. For a given hard-drive capacity, approximate recording times depend on the programming type. The customer is financially responsible for any damage to, or misuse of, any equipment, or for the failure to return any equipment if service is terminated. Applicable franchise fees, regulatory fees and taxes apply. Other terms and conditions apply. ©2005. Verizon. All Rights Reserved.





Set Top Boxes

Standard Definition

The state-of-the-art Standard Definition Set Top Box (STB) from Verizon FiOS TV brings you unsurpassed digital audio and video quality. The Standard Definition box gives you access to the FiOS TV Interactive Programming Guide (IPG), letting you conveniently select and view programs, set parental controls and take charge of your viewing experience. You can also order shows and events on Pay Per View (PPV) or order movies from our extensive Video on Demand (VOD) library. Please take a moment to review the features of the FiOS TV Standard Definition STB.



1. CURSOR

Moves the cursor around menu screens and IPG screens.

2. MESSAGES

Lights to indicate that a message is present.

3. POWER INDICATOR

Lights when the unit is turned on.

4. DISPLAY

Displays current channel number or time of day.

5. REMOTE

Lights to indicate remote control is in use.

6. CHANNEL

Scrolls up or down through the channels.

7. SELECT

Selects menu options, PPV and VOD events and selects channels from the IPG.

8. POWER

Turns the Standard Definition STB on and off.

9. MENU

Displays the main menu in the IPG.

10. INFO

Displays current channel and program information.

11. GUIDE

Displays the TV Listings in the IPG.

12. RF IN

Connects to the FIOS TV video signal.

13. AUDIO OUT TO TV (R/L)

Connects to audio inputs of a TV.

14. AUDIO OUT TO VCR (R/L)

Connects to audio inputs of a VCR (constant-level stereo outputs).

17. AC SWITCHED OUTLET

Connects STB AC power cord and provides a switched power outlet to connect another device, such as a TV or Home Theater System (HTS).

18. To TV/VCR

Connects to a TV or VCR.

19. S-VIDEO

Connects to the S-Video input of a TV, VCR or HTS.

22. DIGITAL AUDIO OPTICAL

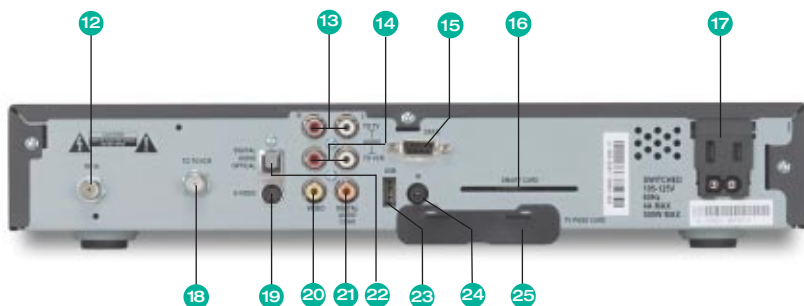
Connects a Toslink connector to a TV, VCR or HTS to provide Dolby Digital 5.1 audio.

23. USB

Connects to digital home devices, such as digital cameras. Currently not enabled.

24. IR

Currently not enabled.

**15. DATA**

Serial data interface reserved for special applications. Do not connect any device to this port.

16. SMART CARD

Supports electronic commerce using a Smart Card. Currently not enabled.

20. VIDEO

Connects to the composite video input of a TV, VCR or HTS.

21. DIGITAL AUDIO COAX

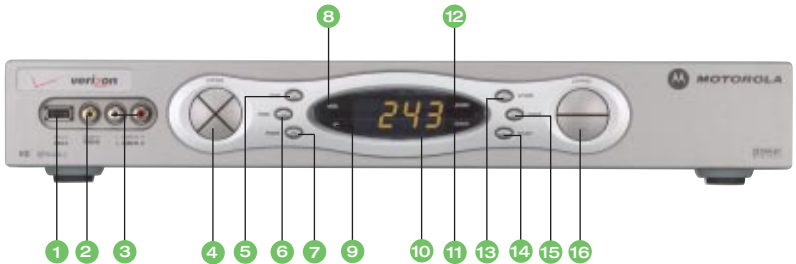
Connects to a TV, VCR or HTS to provide Dolby Digital 5.1 audio.

25. TV PASS CARD

Currently not enabled.

High Definition

The Verizon FiOS TV High Definition Set Top Box (STB) is one of our premium interactive digital video receivers. The High Definition STB automatically gives you access to HD content — letting you see the sharpest images possible. And it brings you all the extraordinary features of FiOS TV, including programming options, the Interactive Programming Guide (IPG), Video on Demand (VOD) and access to commercial-free, CD-quality music. Please take a moment to review the features of the FiOS TV High Definition STB.



1. USB

Connects to digital home devices, such as digital cameras. Currently not enabled.

2. VIDEO IN

Accepts baseband video from a VCR, camcorder or other video device. Currently not enabled.

3. AUDIO IN (L/R)

Accepts baseband L/R audio from a VCR, camcorder or other audio device. Currently not enabled.

4. CURSOR

Moves the cursor around menus and IPG screens.

5. INFO

Displays current channel and program information.

6. MENU

Displays the main menu in the IPG.

7. POWER

Turns the High Definition STB on and off.

8. MESSAGES

Lights when a message is waiting.

9. POWER INDICATOR

Lights when unit is turned on.

10. DISPLAY

Displays current channel number and time of day.

11. REMOTE

Lights to indicate remote control is in use.

12. RECORD

Not applicable for HD STB.

13. OPTION

Reserved for future use.

14. SELECT

Selects menu options, Pay Per View (PPV) and VOD events, and selects channels from the IPG.

15. GUIDE

Displays the TV Listings in the IPG.

16. CHANNEL

Scrolls up or down through the channels.

17. RF IN

Connects to the FIOS TV video signal.

22. S-VIDEO

Connects to the S-Video input of a TV, VCR or HTS.

23. OPTICAL SPDIF

Connects to a TV, VCR or HTS to provide Dolby Digital 5.1 audio.

24. VIDEO IN

Accepts baseband video from a VCR, camcorder or other video device. Currently not enabled.

28. TV PASS CARD

Currently not enabled.

29. Y Pb Pr

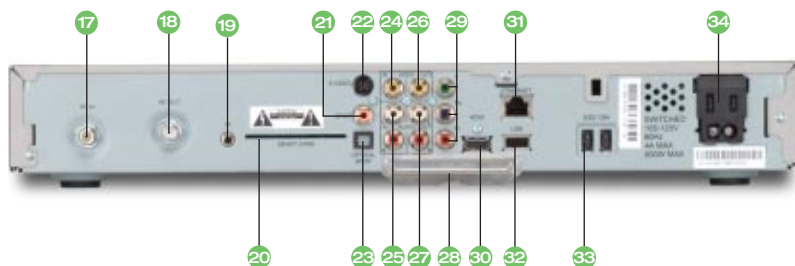
Delivers component video.

30. HDMI

Connects to a High Definition Television (HDTV).

31. ETHERNET

Supports interactive applications and home networking.



18. RF OUT

Connects to a TV or VCR.

19. IR

Currently not enabled.

20. SMART CARD

Supports electronic commerce using a Smart Card. Currently not enabled.

21. SPDIF

Connects to a TV, VCR or Home Theater System (HTS) to provide Dolby Digital 5.1 audio.

25. AUDIO IN (R/L aligned vertically)

Accepts baseband L/R audio from a VCR, camcorder or other audio device. Currently not enabled.

26. VIDEO OUT

Delivers video to an external device, such as a TV or VCR.

27. AUDIO OUT (R/L aligned vertically)

Connects to audio inputs of a TV.

32. USB

Connects to digital home devices, such as digital cameras. Currently not enabled.

33. IEEE 1394

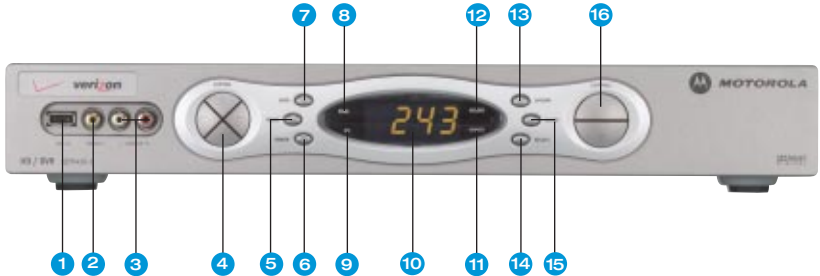
Connects to compatible digital TV A/V ports.

34. AC SWITCHED OUTLET

Connects STB AC power cord and provides a switched power outlet to connect another device, such as a TV or HTS.

Digital Video Recorder

The Verizon FiOS TV Digital Video Recorder (DVR) Set Top Box (STB) is our most advanced interactive digital video receiver. In addition to bringing you all the high-tech features of the High Definition STB, like the FiOSSM TV IPG, Video on Demand (VOD), digital music and the incredible picture quality and sound of HDTV, the DVR STB will revolutionize the way you watch television. The DVR feature allows you to pause and rewind live TV — and even record one show while watching another. Please take a moment to review the features of the FiOS TV DVR STB.



1. USB

Connects to digital home devices, such as digital cameras. Currently not enabled.

2. VIDEO IN

Accepts baseband video from a VCR, camcorder or other video device. Currently not enabled.

3. AUDIO IN (L/R)

Accepts baseband L/R audio from a VCR, camcorder or other audio device. Currently not enabled.

4. CURSOR

Moves the cursor around menus and IPG screens.

5. MENU

Displays the main menu in the IPG.

6. POWER

Turns the DVR STB on and off.

7. INFO

Displays current channel and program information.

8. MESSAGES

Lights when a message is waiting.

9. POWER INDICATOR

Lights when unit is turned on.

10. DISPLAY

Displays current channel number and time of day.

11. REMOTE

Lights to indicate remote control is in use.

12. RECORD

Lights when DVR is recording.

13. OPTION

Reserved for future use.

14. SELECT

Selects menu options, Pay Per View (PPV) and VOD events, and selects channels from the IPG.

15. GUIDE

Displays the TV Listings in the IPG.

16. CHANNEL

Scrolls up or down through the channels.

17. RF IN

Connects to the FIOS TV video signal.

21. S-VIDEO

Connects to the S-Video input of a TV, VCR or HTS.

22. OPTICAL SPDIF

Connects to a TV, VCR or HTS to provide Dolby Digital 5.1 audio.

23. VIDEO IN

Accepts baseband video from a VCR, camcorder or other video device. Currently not enabled.

27. TV PASS CARD

Currently not enabled.

28. Y Pb Pr

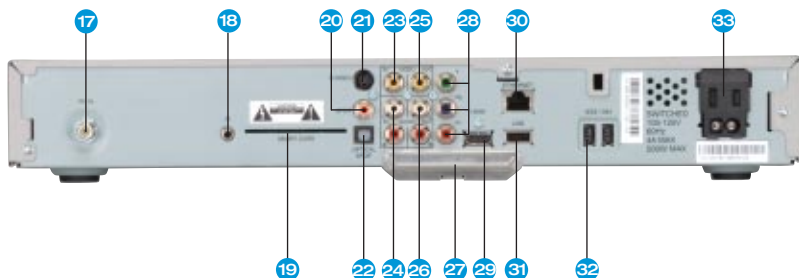
Delivers component video.

29. HDMI

Connects to a High Definition Television (HDTV).

30. ETHERNET

Supports interactive applications and home networking.



18. IR

Currently not enabled.

19. SMART CARD

Supports electronic commerce using a Smart Card. Currently not enabled.

20. SPDIF

Connects to a TV, VCR or Home Theater System (HTS) to provide Dolby Digital 5.1 audio.

24. AUDIO IN (R/L aligned vertically)

Accepts baseband L/R audio from a VCR, camcorder or other audio device. Currently not enabled.

25. VIDEO OUT

Delivers video to an external device, such as a TV or VCR.

26. AUDIO OUT (R/L aligned vertically)

Connects to audio inputs of a TV.

31. USB

Connects to digital home devices, such as digital cameras. Currently not enabled.

32. IEEE 1394

Connects to compatible digital TV A/V ports.

33. AC SWITCHED OUTLET

Connects STB AC power cord and provides a switched power outlet to connect another device, such as a TV or HTS.

Please note: A High Definition Television is required for HD content.

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