

PRODUCT LAUNCH BULLETIN: ViP[®] 722k DVR

Introduction

The ViP722k DVR is an advanced MPEG-2/MPEG-4, dual-tuner, high-definition satellite receiver and integrated digital video recorder (DVR) for viewing independent programming on two televisions. ViP722k DVR supports high-definition (HD) and standard-definition (SD) outputs on TV1, standard-definition outputs on TV2, provides DVR functionality for both TV1 and TV2, and can add over-the-air digital channels for both TVs by installing an optional, digital over-the-air (OTA) tuner module. Refer to *Quick Facts: ViP722k DVR* and the *ViP722k DVR User's Guide* for additional information.

Considerations

The ViP722k DVR has the following new features:

- Two (2) two-way learning remote controls—TV1 remote has two-way IR, and TV2 remote has UHF Pro with two-way IR support.
- The System Wizard diagnoses certain problems with the remote control, such as not recognizing the remote control, changing the remote control's settings, and resolving address conflicts.
- Remote controls learn commands from other devices' remotes.
- Optional MT2 OTA Module adds two digital OTA tuners (available for both TV1 and TV2) and a Channel 3-4 output for TV1 video.
- A software-controlled attenuator feature eliminates the need for an external attenuator when the **HOME DISTRIBUTION** output is directly connected to a nearby TV.

The ViP722k DVR shares these features with our DVR receivers:

- TV1 HD outputs include HDMI digital audio/video and Component (YPbPr) video. SD video is available on TV1 via one Composite (RCA-type) output. TV1 audio is provided by RCA-type outputs, a digital optical audio output, or HDMI.
- The **HOME DISTRIBUTION** output supports a modulated channel carrying TV2 programming in addition to a modulated channel carrying TV1 programming. When the system is locked, the password must be entered to enable the TV1 Out channel. Refer to *Connecting to the Remote TVs (TV1 or TV2)* in Chapter 12 of the *User's Guide* or *Quick Facts: TV1/TV2 Agile Output* for additional information.
- Supports Dish**COMM** Technology which allows a phone connection to be shared with compatible receivers and devices over the home power lines. Refer to *Connecting Using DishCOMM* in Chapter 12 of the *User's Guide* and *Quick Facts: DishCOMM Technology* for additional information on Dish**COMM** Technology.
- Two USB 2.0 ports are included—one on the front panel and one on the back panel. These ports can be used for multimedia features similar to those of ViP722 DVR, including the following:
 - Connecting an external hard disk drive for expanded storage capacity or archiving. Refer to *Quick Facts: DVR External Hard Disk Drive Storage* for more information.
 - Transferring pre-recorded programs to ARCHOS Generation 5 Portable Media Players.
 - Transferring photo files to the receiver for viewing on the HDTV.
- Supports high-definition video on demand (VOD), including 1080p24 VOD content, viewed on TV1.
- Supports connecting to a broadband Internet connection using the **ETHERNET** port on the receiver's back panel or over the home power lines using HomePlug Technology. The broadband Internet connection provides access to update Pay-Per-View purchase records and to additional features, such as downloading movies from Dish**ONLINE**. Refer to *Quick Facts: Connecting the Receiver to the Home Network* and *Home Network Installation Instructions* for additional information on connecting to the home network.

Initial Installation Tips

- Software for the ViP722k DVR is *not* available from the 110°, 121°, or 129° satellite locations. To download software for the ViP722k DVR, you must have signal from one of these satellite locations: 61.5°, 119°, or 148°.
- Use Remote Control 1 (IR) indicated with the green 1 key to perform the initial receiver installation, similar to other two-TV receivers. Remote Control 2 (UHF Pro) is preset at the factory to a random remote address between 1 and 28 and is set up to operate the receiver in a later step of the installation. See *Installation Instructions for ViP722k DVR* on this page.
- Remote Control 2, indicated with the blue key, has a small switch under the battery cover that switches the remote from UHF Pro and IR to IR only. The default setting for this switch is the “UHF” position (UHF Pro and IR operation).
- Default output resolution for the HD outputs is 480p. During installation, change the resolution to 720p or 1080i as appropriate for the connected HDTV.
- The default mode of the ViP722k DVR is Dual Mode, supporting independent viewing on two TVs. If you want to operate the receiver in Single Mode, press the MODE button on the front panel to enable single mode in the user interface.
- Do not connect a phone line to the **ETHERNET** port. All phones in the household will stop working if a phone line is accidentally plugged into this port.

Installation Instructions for ViP722k DVR

Follow the steps below to install a ViP722k DVR. Some steps reference additional documentation, such as the receiver's *User's Guide* and *Quick Facts*, where more detailed instructions can be found. All current LNBF and switch configurations are supported by the ViP722k DVR with factory software. A DISH Pro Plus Separator can be used if the receiver is directly connected to a DISH Pro Plus LNBF or switch.

Note: Do not use Remote Control 2 to operate the ViP722k DVR until after the software download. Install batteries in Remote Control 1 now.

1. **Mount Dish:** Assemble and mount the satellite dish(es) using the dish antenna's installation instructions.
2. **Peak Dish Using Peaking Meter:** Peak each dish for maximum signal strength.
3. **Run and Connect Cable(s):** Connect cable(s) from the dish to either the receiver or the switch, and then from the switch to the receiver. Connect cable(s) to the TV2 location(s).
 - a. Connect all LNBFs and switches together using the instructions for these devices, and connect both of the ViP722k DVR's **SATELLITE IN** ports to the same switch, LNBF, or DISH Pro Plus Separator. Attach the two blue Satellite In stickers from the receiver *User's Guide* to the two Satellite In cables near the receiver.
 - b. Connect a cable from the receiver's **HOME DISTRIBUTION** output to the existing wall cable outlet. Attach the yellow Home Distribution sticker to this cable near the receiver.
4. **Connect ViP722k DVR to HDTV (TV1):** Connect the receiver to the nearby HDTV using the TV1 audio/video connections. Using an HDMI cable to connect between the receiver and the HDTV is preferred, if an HDMI input is available on the HDTV. Power on the HDTV, turn on the satellite receiver, check TV input, and confirm you can see a picture from the receiver.
 - a. If you cannot see a picture, ensure the HDTV is on the correct input and capable of displaying 480p, which is the default resolution of the ViP722k DVR through the HD outputs. See the user's guide that came with the HDTV for instructions.
 - b. If you still cannot see a picture, temporarily connect the composite (RCA-type) TV1 outputs to the nearby HDTV and change the HDTV to the appropriate input to see a picture.

5. **Make Additional Connections:** Attach the remote control antenna and an active phone line to the ViP722k DVR. If a broadband home network is available, the receiver can be connected to the network using Ethernet or a HomePlug-to-Ethernet Adapter. Refer to *Quick Facts: Connecting the Receiver to the Home Network* and *Home Network Installation Instructions* for detailed steps.

Note: If it is not possible to connect an active phone line or Internet connection to the ViP722k DVR, when activating the receiver after the software download, the “Programming Access Fee” must be added to the customer’s account. A DishCOMM Network allows compatible receivers to share one receiver’s phone connection. To create a DishCOMM Network, refer to *Create a DishCOMM Network* on page 4.
6. **Check Switch:** Run a Check Switch test. From the Point Dish screen, select **Check Switch**, then **Test**. If the receiver is not already on the Point Dish screen, access it by pressing MENU on the remote control, selecting **Installation** (1), then **Point Dish** (1). Make sure that the results show the correct LNB(s), switch, and satellite locations for the installation, and that the results match for Satellite Tuner 1 and 2.
7. **Software Download:** Take a software download by selecting **Done** from the Point Dish screen and selecting **Yes** on the next screen. The software download may take up to 30 minutes to complete, after which the receiver reboots to install the software.
8. **Authorize programming:** After the software download is complete, a message displays asking you to authorize the programming. Follow the instructions displayed on the TV.
9. **Address ViP722k DVR to Remote Control 2:** After software installation is complete, bring up the System Information screen, using either Remote Control 1 or the front panel. Install batteries in Remote Control 2 and press RECORD while the System Information screen is displayed, which places the receiver and Remote Control 2 on the same remote address.
10. **Check Switch:** Run a second Check Switch test by pressing MENU on remote, **System Setup** (6), **Installation** (1), then **Point Dish** (1). Make sure that the results show the correct LNB(s), switch, and satellite locations and that the results match for Satellite Tuner 1 and 2.
11. **Customize ViP722k DVR’s HDTV Picture Settings:** Refer to *Connecting to the Nearby TV (TV1)* in Chapter 12 of the User’s Guide. Go to the HDTV Setup menu by pressing MENU on the remote, selecting **System Setup** (6), then **HDTV Setup** (8). See the user’s guide that came with the HDTV if you do not know what resolution or aspect ratio setting to use.

Note: If you had to temporarily connect composite cables to get a picture on the HDTV, change the HDTV back to the correct input and resolution for the receiver’s HD output.

- a. Select an HD resolution (720p or 1080i) supported by the HDTV under TV Type.

Note: Although the ViP722k DVR supports 1080p24 VOD content, there is not a setting on the HDTV Setup menu for 1080p24. At the time 1080p content is ordered, the receiver tests your HDTV for 1080p24 compatibility.

- b. Select the correct Aspect Ratio for the HDTV, then select **Done**.

12. Customize Display of HD Channels in Program Guide:

Note: For this option to be available, HD programming must be purchased.

To choose how HD satellite channels display in the Program Guide, press MENU on the remote control, select **System Setup** (6), **Local Channels** (9), then **Chan Display**.

- Choose an option for how Local Sat Channels are displayed.
- Choose an option for DishHD Channels to change how other HD satellite channels display.



13. Set Up ViP722k DVR for TV2(s):

- Connect the remote TV(s) to an existing wall cable outlet and power on the TV(s).
- Find three side-by-side channels on the remote TV(s) that show no video (they show snow, static, etc., instead). These three channels must be in the 21-69 range if your remote TV(s) is set in Off-air Mode or in the 73-125 range if using Cable Mode.
- Tune the remote TV(s) to the middle channel of the side-by-side channels you found and note the mode (off-air or cable) the TV is in.
- Back at the nearby HDTV, go to the Modulator Setup menu by pressing MENU on Remote Control 1, selecting **System Setup** (6), **Installation** (1), then **Modulator Setup** (5). Set the TV2 Out mode and channel to the same channel as you set on the remote TV(s), then select **Done**.



- Verify that you have a good picture on the remote TV(s). If not, you may need to change the cable connections on the splitter that sends the TV signal throughout the house. Make sure that the **HOME DISTRIBUTION** port is connected to the input of the splitter and that the remote TV(s) is connected to an output of the splitter. Attach the TV2 sticker from the User's Guide on or close to the remote TV(s), and write on the sticker the channel the TV needs to be on to view satellite programming.

Note: If using the **HOME DISTRIBUTION** output for a nearby TV, you may need to enable the software-controlled attenuator. To enable the attenuator, press MENU, **System Setup** (6), **Installation** (1), **Modulator Setup** (5). Select Connection on the Modulator Setup screen. For more information, see *Quick Facts: Agile Output Attenuation Option*.



- In the *How to Watch TV on TV2* section of the included TV2 Quick Reference Guide, write down the TV2 Out channel, and if applicable, the VCR channel and whether the VCR needs to be on or off.

Note: To display TV1 programming on the HOME DISTRIBUTION output, follow the steps above and enable TV1 Out using the Modulator Setup screen, setting TV1 Out to the same mode (off-air or cable) and at least two channels away from TV2 Out. If TV1 has locks set, enter the password to enable TV1 Out. Set the remote TV(s) to the same mode (off-air or cable) and channel as the TV1 Out setting in the Modulator Setup screen. Refer to *Connecting to the Remote TVs (TV1 or TV2)* in Chapter 12 of the *User's Guide* for additional information.

- Program TV Mode and Limited Mode as Needed:** Program each remote control to operate the TV. If you want to program the remote in Limited Mode to send only power and volume commands to the TV, then use the steps listed in *Turning Limited Mode On and Off* in Chapter 10 of the *User's Guide*.
- Recover Button:** Program the RECOVER button for Remote Controls to the same channel as the remote TV, using the steps listed in *Programming the Recover Button for Remote Control 2* in Chapter 10 of the *User's Guide*. Confirm the RECOVER button works for each remote control and TV.
- Create a DishCOMM Network:** (Optional; use only if sharing a phone connection among multiple ViP-series receivers on same account) Go to the DishCOMM Setup screen by pressing MENU on the remote control, selecting **System Setup** (6), **Installation** (1), then **DishCOMM**

Setup (7). Refer to *Quick Facts: DishCOMM Technology* or *Creating a DishCOMM Network* in Chapter 12 of the *User's Guide* for additional information.

- a. Select **Scan** and wait for the receiver to find compatible DishCOMM equipment. For receivers, the Receiver ID number is displayed from the System Info screen. For receivers that may not be on your household's network, the system asks you if you want to add them to your DishCOMM Network. Make sure you only add receivers in your household to your DishCOMM Network. The receiver also confirms you want to add a DishCOMM Modem, if one is present.
- b. Select **Done** to save the changes, or select **Test** to test the DishCOMM Network.

Note: If a DishCOMM Network already exists, enter this receiver's ID or select **Scan** using the DishCOMM Setup screen of a receiver already on the DishCOMM Network.

18. **MT2 OTA Tuner Module:** (Optional) If using the optional MT2 OTA Module and installing an over-the-air (OTA) antenna, install the module using the module's *Installation Instructions* and connect the OTA antenna cable to the module's **OVER THE AIR ANTENNA IN** port. Attach the black Over-the-Air Antenna In sticker from the receiver User's Guide to the OTA antenna cable near the receiver.