
PRODUCT LAUNCH BULLETIN: ViP222™

Introduction

ViP222 is a dual-tuner, two-TV DISH Network receiver compatible with the MPEG-4 compression standard. ViP222 supports high-definition (HD) and standard-definition (SD) outputs for TV1, standard-definition outputs for TV2, and includes one digital over-the-air tuner. Refer to *Quick Facts: ViP222* for additional information.

Considerations

- TV1 video is provided by two HD video outputs (HDMI digital audio/video and Component (YPbPr)) and three SD video outputs (S-Video, composite (RCA-type), and coax). TV1 audio is provided by either composite left/right (RCA-type) or a digital audio output.
- An over-the-air tuner is included for TV1 which receives only digital over-the-air channels, not analog over-the-air channels. To watch analog over-the-air channels, the TV's tuner must be used. ViP222 supports pass-through of analog over-the-air channels to TV1 using the Channel 3/4 output when in standby.
- The Home Distribution output supports a modulated channel carrying TV1 programming in addition to the modulated channel that carries TV2 programming. The modulated output provides the option to view TV1 or TV2 programming on any connected remote TV. 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 11 of the User's Guide or *Quick Facts: TV1/TV2 Agile Output* for additional information.
- Single Mode and Dual Mode viewing options are available on the ViP222. Display Picture-In-Picture on any TV when in Single Mode.
- One Ethernet port is included on the back panel and is reserved for future use.
- One USB 2.0 port is included and is reserved for future use.

Initial Installation Tips

- Software for the ViP222 is *not* available from the 110° satellite location. To download software for the ViP222, you must have signal from one of the following satellite locations: 61.5°, 105°, 119°, 121°, or 148°.
- Use Remote Control 1 (IR) to perform the initial receiver installation. Similar to the ViP622 DVR™, Remote Control 2 (UHF Pro) is preset at the factory to a random remote address between 1 and 16, and is set up to control the receiver in a later step of the installation. See *Installation Instructions* on page 2.
- Remote Control 2, indicated with the blue TV2 key, has a small A/B switch under the battery cover that changes the remote to a different UHF frequency. The default setting for this switch is the "A" position. Only change this setting to avoid UHF interference from other devices. Changing the frequency between A or B requires re-synchronizing the receiver to the remote control on the System Information screen.
- Default output resolution for the HD outputs is 480p. During installation, change the resolution to 720p or 1080i as appropriate for the connected HDTV.
- 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.
- The default mode of the ViP222 prior to the software download is Single Mode. After the software download, the ViP222 switches to Dual Mode, supporting independent viewing on two TVs.

Installation Instructions for ViP222

Follow the steps below to install a ViP222. Detailed instructions for some steps below are found in the receiver User's Guide. All current LNBF and switch configurations are supported by the ViP222 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 ViP222 until after the software download. Install batteries in Remote Control 1.

1. **Connect ViP222 to HDTV (TV1):** Connect the receiver to the nearby HDTV using the TV1 audio/video connections. Attach the remote control antenna and an active phone line to the ViP222. Power on the HDTV and satellite receiver using the front panel power buttons, and confirm you can see a picture from the receiver.
Note: If it is not possible to connect an active phone line to the ViP222, when activating the receiver after the software download, have the "Programming Access Fee" added to the customer's account.
 - 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 ViP222 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.
2. **Mount Dish:** Assemble and mount the satellite dish(es) using standard dish installation methods and instructions.
3. **Peak Dish (Peaking Meter):** If you plan to use a peaking meter to peak the dish(es):
 - a. Peak each dish for maximum signal strength.
 - b. Connect all LNBFs and switches together using the instructions for these devices, and connect both of the ViP222'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.
4. **Peak Dish (Using ViP222):** If you plan to use the receiver's Point Dish/Signal screen to peak the LNBF(s):
 - a. Connect each LNBF to be peaked directly to the SATELLITE IN connections. Run a Check Switch test on each LNBF used for peaking. Peak each LNBF using the Point Dish screen.
 - b. Connect all LNBFs and switches together using the instructions for these devices, and connect both of the ViP222'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.
5. **Check Switch:** Run a Check Switch test. Make sure that the results show the correct LNBF(s), switch(es), and satellite locations, and that the results match for Satellite Tuner 1 and 2.
6. **Software Download:** Take a software download by selecting **Cancel** or **Done** from the Point Dish screen and selecting **Yes** on the next screen. The software download takes between 15 and 30 minutes to complete.
7. **Address ViP222 to Remote Control 2:** After the software download is complete, the receiver displays a pop-up message asking you to press **RECORD** on Remote Control 2. Install batteries in Remote Control 2 and press **RECORD**, which places the receiver and Remote Control 2 on the same remote address.

8. **Customize ViP222's HDTV Picture Settings:** Refer to *Connecting to the Nearby TV (TV1)* in Chapter 11 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).
 - a. Select an HD resolution (720p or 1080i) supported by the HDTV under TV Type.
 - b. Select the correct Aspect Ratio for the HDTV, then select **Done**. 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.

9. **Over-the-Air (OTA) Antenna:** Refer to *Connecting Over-the-Air Antenna* in Chapter 11 of the User's Guide. Digital OTA broadcasts can only be viewed at the TV1 location when the receiver is in Dual Mode. If you plan to connect an OTA antenna for reception of digital OTA channels:
 - a. Peak the OTA antenna using a signal meter appropriate for digital OTA broadcasts.
 - b. Connect the OTA antenna to the ViP222's OVER THE AIR ANTENNA IN port. Attach the black Over-the-Air Antenna In sticker from the receiver User's Guide to the over-the-air antenna cable near the receiver.
 - c. Go to the Local Channels menu by pressing **MENU** on the DISH Network remote, selecting **System Setup** (6), then **Local Channels** (9). You can select **Scan Locals** to let the receiver find digital over-the-air channels or **Add Locals** to add them manually.
 - d. When you are finished adding digital over-the-air channels, select **Done**.

Note: The ViP222 supports display of only digital over-the-air channels in the EPG. Analog over-the-air channels can be viewed using the TV's tuner. If TV1's tuner is connected to the CH 3-4 OUT connection on the receiver, place the receiver in standby and the over-the-air antenna (connected to OVER-THE-AIR ANTENNA IN port) will be connected to the TV's tuner. Change the TV channel to the desired analog channel number. To resume watching satellite programming, change the HDTV back to the correct input and turn the satellite receiver ON.

10. **Customize Display of HD Channels in Program Guide:** To choose how HD satellite channels display in the Program Guide, select **Chan Display** (in the Local Channels menu accessed by pressing **MENU**, selecting **System Setup** (6), then **Local Channels** (9)).

- Choose an option for Local Sat Channels to change how satellite locals are displayed:

- **HD Priority**—HD channels display at the local station's channel number; if HD version is not available, the SD version is displayed.
- **SD Only**—only SD versions of channels display at the local station's channel number.
- **HD and SD (default)**—both HD and SD local channels appear below channel 100 at the local station's channel number.
- **Disable**—HD and SD local channels are only listed in the four-digit channel range.

- To change how other HD satellite channels display in the Program Guide, select an option for Dish**HD** Channels:

- **Enable**—HD satellite channels are displayed next to the SD channel number in the Program Guide.
- **Disable**—HD satellite channels are displayed only in the four-digit channel range (primarily above 9400) in the Program Guide.



11. Connect ViP222 to TV2(s):

- a. Connect the remote TV(s) to an existing wall cable outlet and power on the TV(s).
- b. 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 TV(s) will be set in Air Mode or in the 73-125 range if using Cable Mode.
- c. Tune the remote TV(s) to the middle channel of the side-by-side channels you found and note the mode the TV is in.
- d. Connect the cable from the HOME DISTRIBUTION port to the existing wall cable outlet. Attach the yellow Home Distribution sticker to this cable near the receiver.
- e. Back at the nearby HDTV, go to the Modulator Setup menu by pressing MENU, selecting **System Setup (6)**, **Installation (1)**, then **Modulator Setup (5)** using Remote Control 1. Set the TV2 Out mode and channel the same as you set the remote TV(s), then select **Done**.
- f. 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 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.
- g. 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 and at least two channels away from TV2 Out. If TV1 has locks set, you will need to enter the password to enable TV1 Out. Set the remote TV(s) to the same mode and channel as the TV1 Out setting in the Modulator Setup screen. Refer to *Connecting to the Remote TVs (TV1 or TV2)* in Chapter 11 of the User's Guide for additional information.

12. **Program TV Mode and Limited Mode as Needed:** Program each remote control to the TV. If you want to program the TV in Limited Mode to send only power and volume commands, use the steps listed in *Controlling Other Components* in Chapter 9 of the User's Guide.
13. **Recover Button:** Program the RECOVER button for Remote Control 2 to the same channel as each remote TV, using the steps listed in *Controlling Other Components* in Chapter 9 of the User's Guide. Confirm the RECOVER button works for each remote control and TV.