Welcome to ZeeVee.

ZeeVee products convert your video and audio source to a digital cable channel and broadcast it over coax to all your HDTVs. This guide walks you through basic and more enhanced setup for ZeeVee’s HDbridge 2312 modulator.

What’s in the Box

Here’s what you can expect to find when you open the package:

- ZeeVee Modulator
- AC Power Cord
Front and Back Panels

1. HD62312
   - Name and description of unit
2. Color Display
   - Configuration and system status
3. 5-Way Control
   - Navigate options on front panel display
4. Coax Output
   - Up to 2 paired, frequency-agile QAM RF CATV output channels for up to 12 video sources. Output power can be set between +46 to +25 dBmV using the Maestro web interface or the front panel.
5. Audio/Video Inputs
   - Video: Composite
   - Audio: Analog 3.5mm
6. Event Detection
   - This function not implemented yet
7. 10/100 LAN Port
   - Two symmetrical Ethernet ports for configuration and remote management
8. Delay Matched Audio Output
   - For matching audio to external audio system (first port only)
9. AC Power Input
   - 100-240VAC / 50-60Hz
10. SD Card Port
    - This function not implemented

Basic Installation

Factory default settings allow HD62312 series modulators to broadcast up to 12SD sources on RF channels 2, 3, 5, and 6 for reception at connected HDTVs.

We recommend using the most updated version of firmware. You can find the latest version on the Support section of our website.

Beginning setup

1. Apply power.
2. Connect a Composite Video source to any Composite Video Input of the HD6b2312.
3. Connect the Analog Audio.
4. Run the Auto Scan through the menu system of your HDTV to find the channels.

Tuning your channel at the HDTV (Auto Scan)

1. Connect the Coaxial Output of the HD6b2312 to your RF network. If the RF power for your network is too high, you will observe video breakup.
2. Specify Cable (not Air or Antenna) setting in your TV menu.
3. Enter the RF number to tune directly to the channel. For default channel lineup information, refer to the Default Channel Lineup table. If you cannot tune directly to the channel at this point, it is because most TVs will require you to run a Full Auto Scan.
4. Run the Auto Scan through the menu system of your HDTV to find the channels.

DEFAULT CHANNEL LINEUP (HD6b2312)

<table>
<thead>
<tr>
<th>AV Input</th>
<th>RF Channel</th>
<th>HD Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV Input 1</td>
<td>2</td>
<td>2.1</td>
</tr>
<tr>
<td>AV Input 2</td>
<td>2</td>
<td>2.2</td>
</tr>
<tr>
<td>AV Input 3</td>
<td>3</td>
<td>2.3</td>
</tr>
<tr>
<td>AV Input 4</td>
<td>3</td>
<td>3.1</td>
</tr>
<tr>
<td>AV Input 5</td>
<td>3</td>
<td>3.2</td>
</tr>
<tr>
<td>AV Input 6</td>
<td>3</td>
<td>3.3</td>
</tr>
<tr>
<td>AV Input 7</td>
<td>5</td>
<td>5.1</td>
</tr>
<tr>
<td>AV Input 8</td>
<td>5</td>
<td>5.2</td>
</tr>
<tr>
<td>AV Input 9</td>
<td>5</td>
<td>5.3</td>
</tr>
<tr>
<td>AV Input 10</td>
<td>6</td>
<td>6.1</td>
</tr>
<tr>
<td>AV Input 11</td>
<td>6</td>
<td>6.2</td>
</tr>
<tr>
<td>AV Input 12</td>
<td>6</td>
<td>6.3</td>
</tr>
</tbody>
</table>

WARNING: +45 dBmV
Do not connect directly to HDTV

Coax cable connects to coax network

Ethernet to network or directly to computer

Optional Delay Matched Analog Audio Out to audio system

Video Source

RF Output
+45 dBmV
Front Panel Configuration

You can set the RF broadcast channels using the front panel controls. In many cases, your ZeeVee modulator will require only these configurations.

Setting the RF broadcast channels or power
1. Unlock the panel by pressing/holding together the left and right arrow buttons (△ and ▶) "Setup" lights up.
2. Press "OK" to enter the Configuration screen.
3. Press "OK" to select "RF Setup".
4. Use the arrow buttons (△ □ ▶) to go to each item you want to configure (such as RF Number or RF Power), then press "OK" to edit the highlighted field. Use the up and down (△ □) arrow buttons to scroll through the options for that field.
5. Once you’ve made changes, press "OK" to accept. You can then select the next item for configuration.
6. When finished making changes, use the arrow buttons to scroll down and select "Apply," then click "OK" to save your changes.

Important Notes
• RF numbers are applied in a well-formed channel and will not cause interference. No well-formed channel and will directly adjacent to any other channel (as with RF # 6, 7, 8, 9, etc.). RF # 99 which pairs with 14 (RF Band 5) which pairs with 95, and so on).
• RF numbers can be set directly adjacent to any other well-formed channel and will not cause interference. No channel spacing is required.

Setting the RF broadcast channels
1. Unlock the panel by pressing/holding together the left and right arrow buttons (△ and ▶) "Setup" lights up.
2. Press "OK" to enter the Configuration screen.
3. Press "OK" to select "RF Setup".
4. Use the arrow buttons (△ □ ▶) to go to each item you want to configure (such as RF Number or RF Power), then press "OK" to edit the highlighted field. Use the up and down (△ □) arrow buttons to scroll through the options for that field.
5. Once you’ve made changes, press "OK" to accept. You can then select the next item for configuration.
6. When finished making changes, use the arrow buttons to scroll down and select "Apply," then click "OK" to save your changes.

To update firmware:
• If unit is connected to the internet and can communicate with our servers, select Update Firmware from the Setup screen and press "OK".
• If unit is connected to the internet and cannot communicate with our servers, select Revert Firmware from the Setup screen and press "OK".

To reset IP address:
• When using DHCP, select Reset IP Address to force a release/renew of your IP address, and press "OK".

To restore factory defaults or revert firmware:
1. Power down the unit.
2. Hold the left and right arrows down and reapply power. You will be prompted with options: PRESS "UP" to reset config, "DOWN" to revert FW, "OK" to boot normally.

Cable TV Channels vs RF Frequency (MHz) Map

<table>
<thead>
<tr>
<th>Cable TV Channel</th>
<th>RF Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>7</td>
<td>9</td>
</tr>
<tr>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>9</td>
<td>11</td>
</tr>
<tr>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>11</td>
<td>13</td>
</tr>
<tr>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>13</td>
<td>15</td>
</tr>
<tr>
<td>14</td>
<td>16</td>
</tr>
<tr>
<td>15</td>
<td>17</td>
</tr>
<tr>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td>17</td>
<td>19</td>
</tr>
<tr>
<td>18</td>
<td>20</td>
</tr>
<tr>
<td>19</td>
<td>21</td>
</tr>
<tr>
<td>20</td>
<td>22</td>
</tr>
</tbody>
</table>

The highlighted area in the frequency map shows the RF numbers that can be paired together but are not numerically sequential.
Maestro Configuration

Maestro is a configuration tool that you use optionally to customize your system beyond what is allowed in the front panel. For example, using Maestro you can assign a channel number (virtual channel) independent of the RF number and label the channels.

Connecting with Maestro
1. Connect your computer directly to the ZeeVee modulator using a standard Ethernet cable (not a cross-over cable) or connect the unit and your computer to any LAN that has a DHCP server.
2. After a few moments, an IP address will appear at the top of the front panel display.
3. Using any web browser (Chrome or Firefox preferred), enter the IP address to launch Maestro.
4. You will be directed to a login page. Your user name is always “admin.” The default password is “admin” but you can change the password. Login is case-sensitive.
5. After you log in, the Maestro Status tab appears. Here you can see the general information status.

Configuring RF numbers and virtual channels
1. Click on the Channel Plan tab.
2. Click in the RF # field and enter the RF number as you choose from the RF Frequency Map (on page 7). Make sure you’ve reviewed the RF Frequency Map Important Notes before completing this task.
3. Click in the Channel # field and enter a channel number (virtual channel). The channel number is what the TV displays. You can configure a channel number two ways:
   • As a dotted number — Enter the number with a “.” following it, for example, “5.1”. This is the default display.
   • As a dotless number — Enter the number with a “#” preceding it, for example, “#5”.
4. Click Apply to save changes. Your unit stores configurations so they are not lost on power-down.
5. Run Auto Scan at TV (see Tuning your channel at the HDTV, page 5) when you have saved configuration changes.

Labeling channels with channel and content information
1. In the Channel Plan tab, click in the Name field and enter the channel short name (up to 7 characters).
2. In the Long Name field and enter the long or more descriptive channel name (up to 63 characters). The TV displays these names and descriptions when the channel is changed or info guide information is requested.
3. Click Apply to save changes.

Using the Maestro tabs
Click on the Maestro tabs to configure your unit as needed. We provide brief information here. Please click on the Help button on each tab or refer to the Support section of our website for further detail on configuration options.

1. Connect your computer directly to the ZeeVee modulator using a standard Ethernet cable (not a cross-over cable) or connect the unit and your computer to any LAN that has a DHCP server.
2. After a few moments, an IP address will appear at the top of the front panel display.
3. Using any web browser (Chrome or Firefox preferred), enter the IP address to launch Maestro.
4. You will be directed to a login page. Your user name is always “admin.” The default password is “admin” but you can change the password. Login is case-sensitive.
5. After you log in, the Maestro Status tab appears. Here you can see the general information status.

Configuring RF numbers and virtual channels
1. Click on the Channel Plan tab.
2. Click in the RF # field and enter the RF number as you choose from the RF Frequency Map (on page 7). Make sure you’ve reviewed the RF Frequency Map Important Notes before completing this task.
3. Click in the Channel # field and enter a channel number (virtual channel). The channel number is what the TV displays. You can configure a channel number two ways:
   • As a dotted number — Enter the number with a “.” following it, for example, “5.1”. This is the default display.
   • As a dotless number — Enter the number with a “#” preceding it, for example, “#5”.
4. Click Apply to save changes. Your unit stores configurations so they are not lost on power-down.
5. Run Auto Scan at TV (see Tuning your channel at the HDTV, page 5) when you have saved configuration changes.

Labeling channels with channel and content information
1. In the Channel Plan tab, click in the Name field and enter the channel short name (up to 7 characters).
2. In the Long Name field and enter the long or more descriptive channel name (up to 63 characters). The TV displays these names and descriptions when the channel is changed or info guide information is requested.
3. Click Apply to save changes.

Using the Maestro tabs
Click on the Maestro tabs to configure your unit as needed. We provide brief information here. Please click on the Help button on each tab or refer to the Support section of our website for further detail on configuration options.

THE RF TAB
Allows you to change the RF power output.

THE AV SOURCE TAB
Allows you to specify audio and video sources as well as other configuration options for the sources.

THE DEVICE TAB
Allows you to change the device password and update firmware as well as configure Emergency Alerts System (EAS). You can find detailed information on EAS in the Support section of the website.

THE NETWORK TAB
Allows you to assign a static IP address.

THE SUPPORT TAB
Provides technical support contact information and allows you to send logs for troubleshooting.

THE ADMIN TAB
Allows for creating user accounts which limit access to specific parts of Maesto including ZvShow, STB and EAS access.
The image is a page from a document discussing troubleshooting and warranty information for the HDbridge 2312 Configuration Guide. The page contains text about video issues, firmware updates, and return material authorization (RMA) numbers. It also mentions contacting ZeeVee for service or replacement.

Here is a summary of the key points:

- **Video Issues**: Some TVs may show video issues if the signal strength is too high. Lowering the RF power on the unit can help resolve this issue.
- **RF Power Balance**: Verifying that the RF power of the unit is balanced with signals from other modulators or cable companies can also help resolve interference.
- **ฮีดริจใหม่**: The page contains text in Thai which translates to "HDbridge 2312 Configuration Guide".

The page also includes contact information at the bottom:

- **Contact**: Fill out the form, attach a stamp, and send it to warranty@zeevee.com.
- **Phone**: +1.877.493.3833 or +1.347.851.7364
- **Email**: support@zeevee.com

Lastly, the page provides safety instructions and legal disclaimers for the ZeeVee Equipment.

---

**HDbridge 2312 Configuration Guide**

**WARRANTY**

The HDbridge 2312 Configuration Guide includes the warranty details for the ZeeVee Equipment. The warranty covers the Equipment against defects in materials and workmanship for a period of five years from the date of original purchase. The warranty is only available to the original user and is non-transferable. The modulator is not compatible with the Modu window. Upgrading or using Firefox or Chrome should correct the issue.

**THE ABOVE WARRANTIES ARE SUBJECT TO**

- Agreements and similar obligations of ZeeVee.
- And in lieu of all other warranties, guarantees, and agreements.

**LIMITATION OF LIABILITY**

- ZeeVee deems as necessary).
- All costs for repair or replacement of out-of-warranty products. No agent, company, dealer, distributor, or transferee.
- All warranties implied by law, including any implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of this express limited warranty. Some countries and states of the U.S. do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

**TO GET OUT-OF-WARRANTY SERVICE**

- You can obtain or view the product. ZeeVee is not responsible for any custom modifications to an RMA number and may reject such products.

**WHAT THESE WARRANTIES EXCLUDE**

- For shipping, tax or duty charges for return or replacement of the ZeeVee Equipment. ZeeVee shall not be liable for any costs for repair or replacement of out-of-warranty products. No agent, company, dealer, distributor, or transferee.

**WHAT THESE WARRANTIES INCLUDE**

- Labor charges for installation or setup of the ZeeVee Equipment. ZeeVee will not service any ZeeVee Equipment that was modified by any party other than as expressly authorized by ZeeVee.

**TO GET WARRANTY SERVICE**

- Please keep your sales receipt and any other documentation showing purchase and use of the ZeeVee Equipment. ZeeVee shall not be liable for any costs for repair or replacement of out-of-warranty products. No agent, company, dealer, distributor, or transferee.

---

**HDbridge 2312 Configuration Guide**

**Warranty Services**

- HDbridge 2000 Series and ZvPro Product Lines

**LIMITATION OF LIABILITY**

- For shipping, tax or duty charges for return or replacement of the ZeeVee Equipment. ZeeVee shall not be liable for any costs for repair or replacement of out-of-warranty products. No agent, company, dealer, distributor, or transferee.

**WHAT THESE WARRANTIES EXCLUDE**

- Labor charges for installation or setup of the ZeeVee Equipment. ZeeVee will not service any ZeeVee Equipment that was modified by any party other than as expressly authorized by ZeeVee.

**TO GET OUT-OF-WARRANTY SERVICE**

- You can obtain or view the product. ZeeVee is not responsible for any custom modifications to an RMA number and may reject such products.

**WHAT THESE WARRANTIES EXCLUDE**

- For shipping, tax or duty charges for return or replacement of the ZeeVee Equipment. ZeeVee shall not be liable for any costs for repair or replacement of out-of-warranty products. No agent, company, dealer, distributor, or transferee.

---

**HDbridge 2312 Configuration Guide**

**Warranty Services**

- HDbridge 2000 Series and ZvPro Product Lines

**LIMITATION OF LIABILITY**

- For shipping, tax or duty charges for return or replacement of the ZeeVee Equipment. ZeeVee shall not be liable for any costs for repair or replacement of out-of-warranty products. No agent, company, dealer, distributor, or transferee.

**WHAT THESE WARRANTIES EXCLUDE**

- Labor charges for installation or setup of the ZeeVee Equipment. ZeeVee will not service any ZeeVee Equipment that was modified by any party other than as expressly authorized by ZeeVee.

**TO GET OUT-OF-WARRANTY SERVICE**

- You can obtain or view the product. ZeeVee is not responsible for any custom modifications to an RMA number and may reject such products.

**WHAT THESE WARRANTIES EXCLUDE**

- For shipping, tax or duty charges for return or replacement of the ZeeVee Equipment. ZeeVee shall not be liable for any costs for repair or replacement of out-of-warranty products. No agent, company, dealer, distributor, or transferee.

---

**HDbridge 2312 Configuration Guide**

**Warranty Services**

- HDbridge 2000 Series and ZvPro Product Lines

**LIMITATION OF LIABILITY**

- For shipping, tax or duty charges for return or replacement of the ZeeVee Equipment. ZeeVee shall not be liable for any costs for repair or replacement of out-of-warranty products. No agent, company, dealer, distributor, or transferee.

**WHAT THESE WARRANTIES EXCLUDE**

- Labor charges for installation or setup of the ZeeVee Equipment. ZeeVee will not service any ZeeVee Equipment that was modified by any party other than as expressly authorized by ZeeVee.

**TO GET OUT-OF-WARRANTY SERVICE**

- You can obtain or view the product. ZeeVee is not responsible for any custom modifications to an RMA number and may reject such products.

**WHAT THESE WARRANTIES EXCLUDE**

- For shipping, tax or duty charges for return or replacement of the ZeeVee Equipment. ZeeVee shall not be liable for any costs for repair or replacement of out-of-warranty products. No agent, company, dealer, distributor, or transferee.
**Contact ZeeVee**

**Support**

Contact us for installation and technical support, repairs, and warranty service:

+1 (877) 4-ZEEVEE (1.877.493.3833)

support@zeevee.com

Representatives are available from 9:00 AM to 6:00 PM, Monday through Friday (Eastern Time).

**Sales**

North America:

+1 (347) 851-7364 Phone

sales@zeevee.com

EMEA:

+44 1494 956677 Phone

EMEAsales@zeevee.com

---

**Ways to Register**

- **Maestro**
  - Click on "ZeeVee Website" in the Support Tab when you begin your configuration

- **Mobile**
  - Click on the QR code with your mobile device’s code reader app

- **Online**
  - Go to zeevee.com/register

- **Email**
  - Send an email with all card info (below) to warranty@zeevee.com

- **Mail**
  - Fill out the form, attach a stamp, and mail to ZeeVee

Contact +1.877.493.3833 or warranty@zeevee.com with any questions.

---

**Customer Details**

- Email
- Telephone
- Country
- Sales Representative's Name
- Sales Representative's Address 1
- Sales Representative's Address 2

**End User Details**

- End User Company Name
- Serial Number (an 11 or 12 digit number)
- End User Address 1
- End User Address 2
- State / Province (if US or Canada)
- Invoice or PO Number
- Country

**Product Details**

- Dealer / Installer Company Name
- Telephone
- Email
- Contact Name
- Year Warranty

**5 Year Warranty**

If you choose to register by mail, complete the form below and mail to ZeeVee at the address on the back. Be sure to PRINT CLEARLY and attach a postcard stamp.

Send an email with all card info (below) to warranty@zeevee.com

Click on "ZeeVee Website" in the Support Tab when you begin your configuration.

Click on the QR code with your mobile device’s code reader app.

Go to zeevee.com/register.

Contact +1.877.493.3833 or warranty@zeevee.com with any questions.

---

**Mail**

Contact +1.877.493.3833 or warranty@zeevee.com with any questions.

---

**Proudly designed and built in the USA**