ZvPro 800i
CONFIGURATION GUIDE

Zvpro
i-SERIES
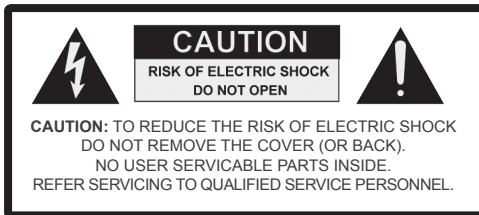
ZvPro810i • ZvPro820i

EU

Important Safety Instructions. Save These Instructions.

WARNING: When using electronic products, basic precautions should always be followed, including:

1. Keep these instructions.

2. Heed all warnings.

3. Follow all instructions.

4. Do not use this apparatus near water.

5. Clean only with dry cloth.

6. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

8. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

9. Power cord must be accessible to allow for the removal of power from the unit.

10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Unplug the apparatus during lightning storms or when unused for long periods of time.

12. Only use attachments/accessories specified by the manufacturer.

13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

14. WARNING: To reduce the risk of fire or electric shock do not place this apparatus in a position where it is exposed to dripping or splashing liquids, rain, moisture, or excessively high humidity. Objects containing liquid shall not be placed in proximity to the unit such that they present a risk of spillage onto the apparatus.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE THE COVER (OR BACK). NO USER SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

FCC Statement

FCC Compliance and Advisory Statement: This hardware device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed or used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.

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 and also allows for the same video signal to be sent out as an IP stream. This guide walks you through basic and more enhanced setup for ZeeVee's ZvPro 800i modulators.

If you run into problems during setup, feel free to contact Technical Support at +1(877) 4-ZEEVEE (1.877.493.3833).

What's in the Box

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

ZeeVee Modulator
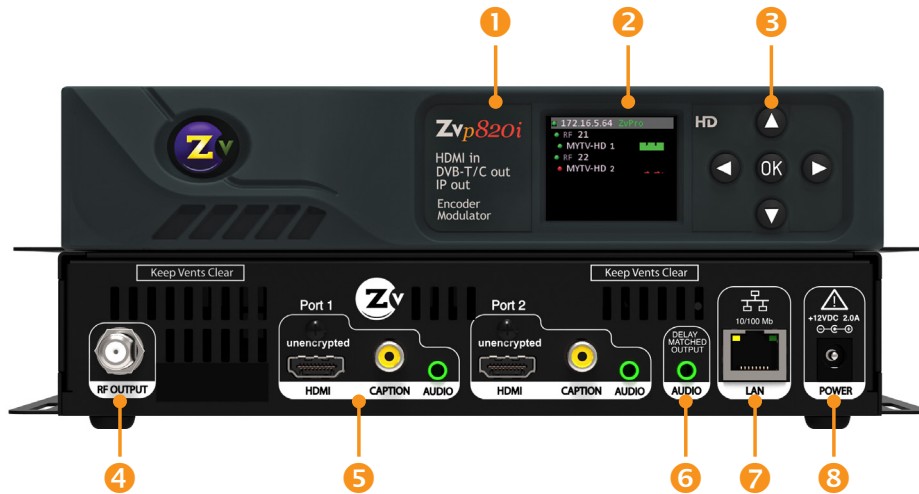
Power Cord and Adaptors

Available Separately

HDMI Cables

Front and Back Panels
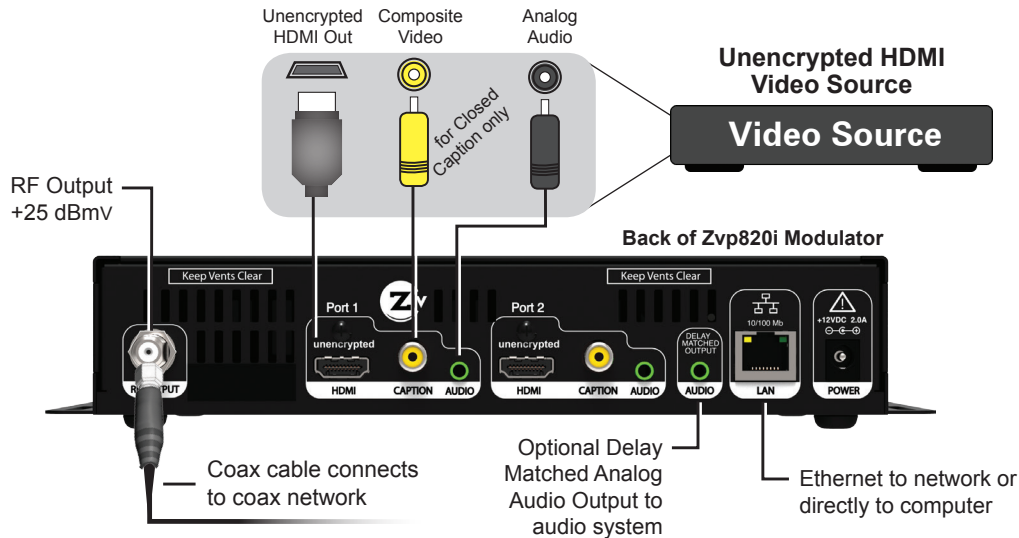

❶	Model Number	Name and description of unit
❷	Color Display	Configuration and system status
❸	5-Way Control	Navigate options on front panel display
❹	Coax Output	One channel or one channel pair, frequency-agile DVB-T/C RF CATV output channels for up to 2 video sources. Output power can be set between +45 to +25 dBmV using the Maestro web interface or the front panel.
❺	Audio/Video Inputs	Digital Audio/Video: Unencrypted HDMI Teletext: Composite Analog Audio: 3.5mm Audio
❻	Delay Matched Audio Output	For matching audio to external audio system (first port only, requires analog audio as input)
❼	10/100 LAN Port	One Ethernet port for configuration, remote management, and IP streaming
❽	DC Power Input	+12 Volts

Basic RF Installation

Unencrypted HDMI Out · Composite Video · Analog Audio

for Closed Caption only

Unencrypted HDMI Video Source

Video Source

RF Output +25 dBmv

Back of Zvp820i Modulator

Keep Vents Clear · Port 1 · Port 2 · Keep Vents Clear · 10/100 Mb · +12VDC 2.0A

unencrypted · HDMI · CAPTION · AUDIO · unencrypted · HDMI · CAPTION · AUDIO · DELAY MATCHED OUTPUT AUDIO · LAN · POWER

RF OUTPUT

Coax cable connects to coax network

Optional Delay Matched Analog Audio Output to audio system

Ethernet to network or directly to computer

Factory default settings allow ZvPro 800i modulators to broadcast up to two unencrypted HDMI sources on RF channels 21 and 22 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 an HDMI video source to the HDMI input port of the ZvPro 800i, using an HDMI cable (which is sold separately). For Teletext, connect a composite (yellow) cable from the video source to the Caption port.

3. *Optional* – Connect the Analog Audio if the digital audio is not present on HDMI or to implement the delay matched audio feature.

Tuning your channel at the HDTV (Auto Scan)

1. Connect the Coaxial Output of the ZvPro to your RF network. *If the RF power for your network is too high, you will observe video breakup.*

2. Set the RF Input on the TVs to DVB-T (default) or DVB-C with the Symbol Rate 6740 KS/sec.

3. Enter the RF number to tune directly to the channel. (Refer to Default Channel Lineup for default information.) *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

DVB-T Factory Defaults	Logical Channel #	
Ch. 21 (474 MHz)	1	
Ch. 22 (482 MHz)	2	

Optional DVB-C Channel Plan	Logical Channel #	
Frequency 85 MHz	1	2

Front Panel Configuration

Shows audio/video being encoded

Green — Both audio and video are detected

Yellow — Video, but no audio detected

Red — No video detected

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

Setting the RF broadcast channel, RF power or audio delay

1. Unlock the panel by pressing/holding together the left and right arrow buttons (◄ ►) until "Setup" lights up.

2. Press "OK" to enter the Configuration screen.

3. Use the arrow buttons (▲▼◄ ►) to go to each item you want to configure (such as RF Number, RF Power or Audio Delay), then press "OK" to edit the highlighted field. Use the up and down (▲▼) arrow buttons to scroll through the options for that field.

4. Once you've made changes, press "OK" to accept. You can then select the next item for configuration.

5. When finished making changes, use the arrow buttons to scroll down and select "Apply," then click "OK" to save your changes.
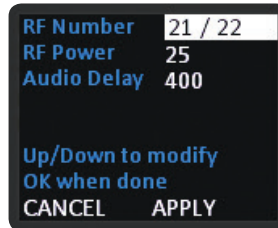
Note: The front panel locks automatically after a few seconds. To make more changes, press/hold the left and right arrow buttons again to re-enter the setup screen.

SETUP SCREEN
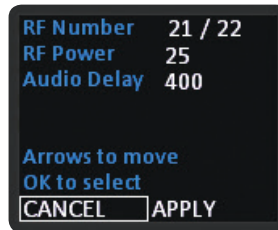
CONFIGURATION SCREEN

ACTIVE CONFIGURATION SCREEN

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".

To reset IP address:

• When using DCHP, 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 to a screen:
   • Press up arrow to reset to defaults;
   • Press down arrow to revert firmware.

IMPORTANT NOTES

• **RF Channel numbers are applied in pairs based on the frequency map. For instance, if you enter RF Channel # "21" then RF Channel # "22" automatically populates.**

• **ZV channels can be set directly adjacent to any other well-formed channel and will not cause interference. No channel spacing is required.**

• **DVB-T defaults to using specific channels and frequency bands on the CCIR table. You can change those settings from CCIR to None and enter a frequency directly using Maestro. For instance, instead of entering RF channel 21, you could enter a frequency such as "474 MHz."**

CCIR Table vs Frequency Map

RF Channel	Band (MHz)	RF Channel	Band (MHz)	RF Channel	Band (MHz)
21	470-478	41	630-638	61	790-798
22	478-486	42	638-646	62	798-806
23	486-494	43	646-654	63	806-814
24	494-502	44	654-662	64	814-822
25	502-510	45	662-670	65	822-830
26	510-518	46	670-678	66	830-838
27	518-526	47	678-686	67	838-846
28	526-534	48	686-694	68	846-854
29	534-542	49	694-702	69	854-862
30	542-550	50	702-710	70	862-870
31	550-558	51	710-718	71	870-878
32	558-566	52	718-726	72	878-886
33	566-574	53	726-734	73	886-894
34	574-582	54	734-742	74	894-902
35	582-590	55	742-750	75	902-910
36	590-598	56	750-758	76	910-918
37	598-606	57	758-766	77	918-926
38	606-614	58	766-774	78	926-934
39	614-622	59	774-782	79	934-942
40	622-630	60	782-790	80	942-950

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 (logical channel) independent of the RF number and label the channels. You can also set up IP streaming.

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.
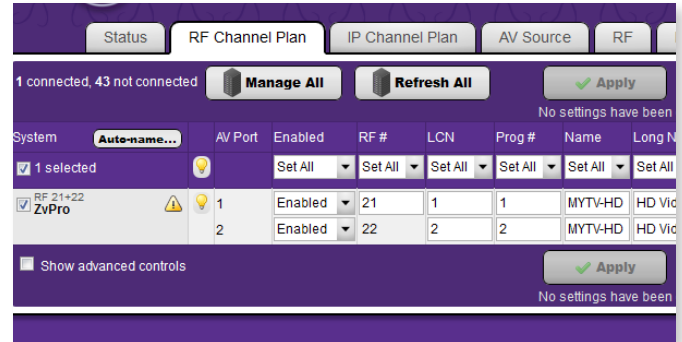
5. After you log in, the Maestro Status tab appears. Here you can see the general information status.
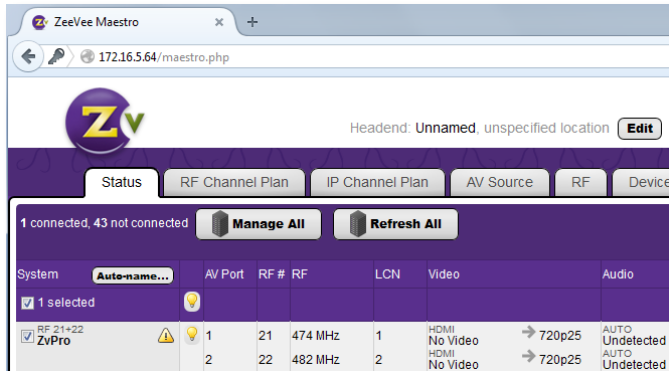
Configuring RF numbers and logical channel numbers (LCN)

1. Click on the RF Channel Plan tab.

2. Click in the RF # field and enter the RF number as you choose from the CCIR Table (on page 7). *Make sure you've reviewed the CCIR Table Important Notes before completing this task.*

3. Click in the LCN field and enter a logical channel number. The LCN is what the TV displays.

   Note that you can choose a logical channel number that is different from the RF#. For instance, if your RF# is 21, you can choose 3 as your LCN.

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 RF Channel Plan tab, click in the Name field and enter the channel short name (up to 7 characters).

2. Click 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.

Configuring IP streaming

You can configure the ZvPro800i to output either UDP unicast or UDP multicast IP-streams concurrently with the channels being generated out its RF-port.

ZvPro streams MPEG2 IP output at the same video resolution that arrives on the input port. For example, if an HDMI source is connected at 720p60, the output stream will arrive at 720p60.

The IP stream generated is an exact copy of the broadcast-grade transport stream over the RF ports. The bandwidth required for the MPEG2 format is high for Ethernet – so you should take this into account before deployment to avoid overwhelming the Ethernet switching infrastructure.

Current generation ZeeVee products generate IP streams appropriate for bulk distribution of high quality video over dedicated switching infrastructures. Without any modifications to the stream parameters, a typical 1080 resolution stream will be around 20Mbps. The ZvPro originated stream is not intended for Internet distribution and will quickly overwhelm most Internet infrastructures. Similarly, unless the scope of WiFi distribution is managed correctly and sparingly, the distribution of the ZeeVee IP stream will also overwhelm most local Ethernet WiFi distribution schemes.
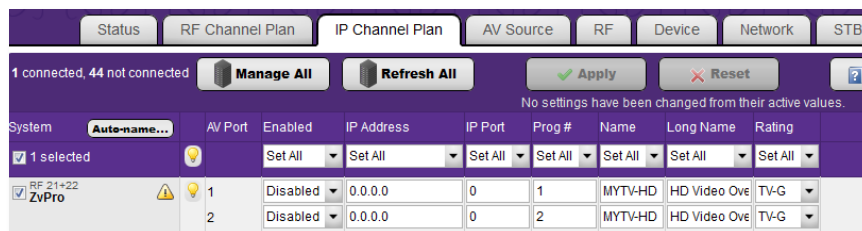
1. Click on the IP Channel Plan tab.

2. Click in the IP Address field and enter the destination address to direct the stream. If you enter a valid IP multicast address (range 224.0.0.0 to 239.255.255.255), any endpoint registered with that multicast receives the stream. If you enter a valid IP unicast address, only that specific address receives the stream.

3. Click in the IP Port field and set the IP port number for the stream to be sent. This IP port number must be a valid one and one that does not conflict with well-known IP protocols already existing on the wire. Selection of an appropriate IP port is the task of the IT administrator on the destination network.

   Each IP stream from a ZeeVee unit on the Ethernet network should have a unique IP address and port number combination. For example, you can configure two streams with the same IP address, but they must have different ports. Or you can configure two streams with the same port, as long as they are using different IP addresses.

4. Click Enabled and then click Apply to save changes.

Deployment Considerations (IP Streaming only)

To receive and display an IP stream, you must employ a decoder capable of receiving UDP video streams and rendering them to a video device – such decoders include:

IP SET TOP BOX – This purpose-built device registers and receives an IP transport stream and renders it to a video port that is attached to a display.

COMPUTER OR SERVER – If you want secondary processing of the stream, the stream can be sent to a server or servers. In such a case, UDP unicast addressing is typically used to avoid congestion issues on the Ethernet network.

PC OR LAPTOP – With suitable display software (the open source program VLC is commonly used), the computer can receive and render the IP stream.

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 AV SOURCE TAB
Allows for specifying audio and video inputs and adjusting settings such as Delayed Audio Out (for matching audio to external audio systems – first port only).
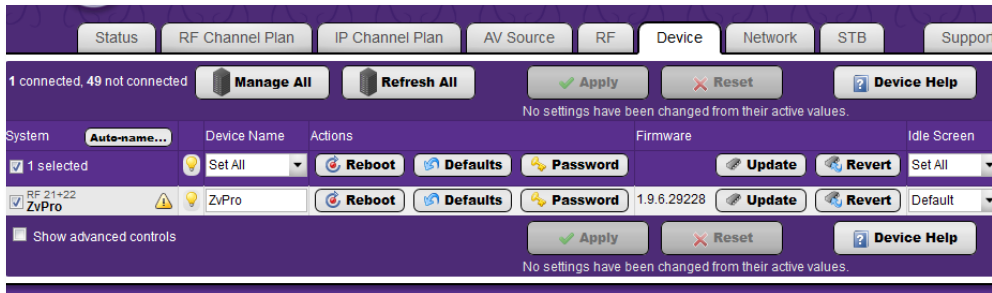

THE RF TAB
Allows you to change the RF power output.

Manage All allows you to view and configure all units on your network.

Group Action bar allows you to set configuration for all selected units actively managed on your network.

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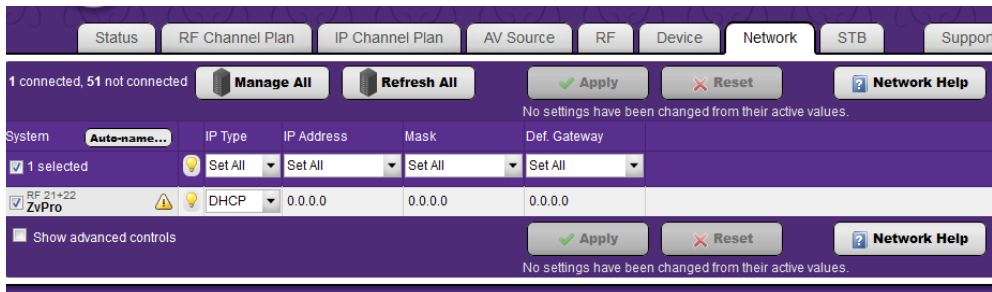
THE NETWORK TAB
Allows you to assign a static IP address.

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

Troubleshooting

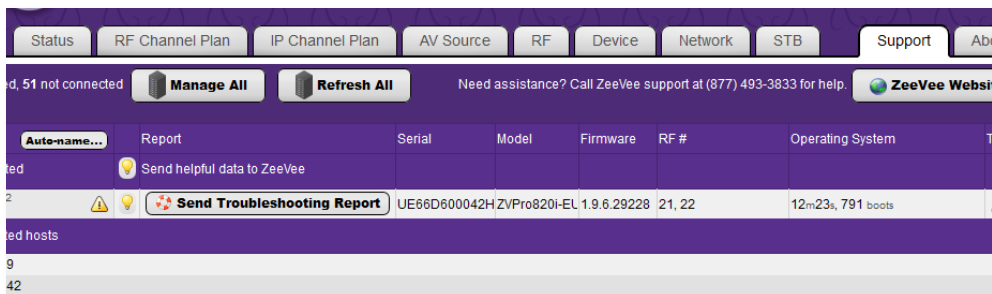|	
Unable to Connect to Maestro	If unable to connect, try one of the following: ▶ **If you are getting a page not found error when directly connected to a PC,** try disabling WIFI. If that does not correct it, make sure your PC is not using a static IP address. The PC and the ZvPro unit must be on the same IP subnet for them to communicate. For details on how to check for a static IP address, please see the FAQ section of our website. ▶ **If the page loads, but all you see is a purple background and the ZeeVee logo (and are not prompted to log in)** please try a different web browser. We have found some older versions of Internet Explorer are not compatible with the Maestro tool. Updating IE or using Firefox or Chrome should correct the issue.
No picture or channel found at TV	Verify the HDTV has a DVB-T (or DVB-C) tuner. Verify that you have performed a full channel scan on the HDTV with appropriate mode selected. If using DVB-C be sure that symbol rate at TV is set to 6740KS/sec. Some digital tuners do not support HD content, remove video source and try the scan with only the idle screen. Lower the power on the unit, then verify that the modulator is not conflicting with any other channel by connecting the unit directly to the HDTV.
Idle Screen (bouncing logo)	One reason this may happen is when the unit does not detect video input. Verify the source is on and producing a video signal, then verify the source is outputting a supported resolution.
Image Breakup	Image or video break up is often caused by an issue in the RF/coax network. You may have chosen a channel number that is not completely vacant. If you are combining with other modulators, be sure the RF# selected on the unit does not conflict with any other channels, keep in mind that some analog modulators may spill over to adjacent channels and cause unexpected interference. If you are combining with a cable service or terrestrial broadcast, keep in mind that they sometimes have extra signals that a TV will not display and can cause interference. There may also be an RF power balance issue. Verify that the RF power of the unit is balanced with signals from other modulators and/or terrestrial signals. In many instances you may have to attenuate the ZeeVee signal down significantly to balance it with terrestrial broadcasts. As a test, try removing all other signals (cable, other modulators, etc) and see if you still see similar issues. Some TVs will also show video issues if the signal strength is too high. Try lowering the RF power on the unit to ensure you are not overdriving the HDTV tuner.
VGA or HDMI video does not fill HDTV screen	The unit is broadcasting in "compatibility mode." This means it's receiving a resolution from your VGA/HDMI source that doesn't match standard 1280x720 or 1920x1080 HDTV picture resolutions. When that happens, the unit fits the incoming picture inside either a 720 or 1080 window and pads the outside area with black. To resolve the issue, set your VGA source to output 1280x720 or 1920x1080 resolution. For more detailed information about setting up VGA and HDMI resolutions, see the FAQ section of our website.

Audio and video are not synchronized	If both the audio and video are being sent through the unit to the TV, be sure your firmware is fully updated, later versions of firmware may have lip sync corrections.
	If you are feeding the audio directly from the source into a distributed (whole house) audio system and not through the ZeeVee unit, it will arrive to the speakers before the video arrives to the HDTV. This happens because the video is being encoded into a digital signal, modulated by the unit and then demodulated at the HDTV. Each of these steps adds latency that will not be reflected in the audio because it is traveling a shorter path.
	To work around the issue, you can try one of the following:
	▶ Use an audio delay device that allows you to add a delay to the audio stream before it reaches the sound system.
	▶ Feed the audio to the ZeeVee unit and send it to the HDTV with the video. Then take the audio out from an HDTV or external tuner (such as the ZvSync) and connect it to your audio system. The audio should have a similar amount of delay since it has gone through the encoding and decoding process just as the video did.
IP Stream not received and displayed at television	Check configuration parameters in Maestro. Check network parameters to make sure Ethernet switches are set to locally forward multicast traffic (if employed). As a debug step, try connecting a PC running VLC directly to the ZvPro Ethernet port and configure it to receive the stream.

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WARRANTY

HDbridge 2000 Series
and ZvPro Product Lines
ZeeVee, Inc. January 1, 2014

LIMITED FIVE YEAR WARRANTY

ZeeVee warrants your ZeeVee Equipment (defined to include only HDbridge Series and ZvPro Series of equipment) against defects in materials and workmanship for a period of five years from the date of purchase. ZeeVee's limited warranty extends only to the original end user purchaser or any person receiving the ZeeVee Equipment as a gift from the original end user purchaser and to no other purchaser 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 or states of the U.S. do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

EXCLUSIVE REMEDY FOR ZEEVEE EQUIPMENT

At the option of ZeeVee, the ZeeVee Equipment will be repaired or replaced with a new, repaired or refurbished product (whichever ZeeVee deems as necessary) if it becomes defective or inoperative. If ZeeVee cannot reasonably repair or replace the ZeeVee Equipment then ZeeVee may, at its sole discretion, refund the original purchase price or the current retail price of the ZeeVee Equipment. If ZeeVee chooses to repair or replace the ZeeVee Equipment, or to refund the purchase price, this will be the exclusive remedy. With the exception of any warranties implied by the law of any country or state of the U.S., this express limited warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of ZeeVee.

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS

- You must have proof of purchase from an authorized ZeeVee dealer to receive warranty service. A sales receipt or other document showing that you purchased the ZeeVee Equipment is considered proof of purchase.
- Warranty coverage begins the day the original end user purchaser or any person receiving the ZeeVee Equipment as a gift from the original end user

purchaser purchased the ZeeVee Equipment.
- All ZeeVee Equipment, including replacement products, are covered only for the original warranty period. When the warranty on the original product expires, the warranty on the replacement product also expires.
- If we determine that the problem is not covered under the limited warranty, we will notify you and inform you of service or replacement alternatives that are available to you on a fee basis.
- In the case of a paid repair: at the option of ZeeVee, the ZeeVee Equipment will be repaired or replaced with a new, repaired, refurbished, or comparable product (whichever ZeeVee deems as necessary).
- ZeeVee Equipment must be purchased through an authorized ZeeVee distribution partner and dealer/reseller. Check zeevee.com for a list of authorized distributors and a list of any expressly excluded dealer/resellers. ZeeVee does not warrant equipment purchased through grey market resellers or certain internet resellers.

WHAT THESE WARRANTIES EXCLUDE

Your warranties do NOT cover:
- Labor charges for installation or set-up of the ZeeVee Equipment.
- Repairs or replacement due to misuse, accident, lightning damage, unauthorized repair, power surges, or other causes not within the control of ZeeVee.
- Any modifications or other changes to the ZeeVee Equipment, including but not limited to software or hardware modification in any way other than as expressly authorized by ZeeVee, will void these limited warranties. Except in the case of hardware or software provided by ZeeVee, installing modifications, "hacks," or utilizing service access or "back doors" will void these limited warranties.
- Reception or transmission problems caused by signal conditions, Internet connection problems, or any other communication systems outside the unit.
- Expendable accessories included in ZeeVee Equipment such as batteries.
- Any ZeeVee Equipment that has been modified or adapted to enable it to operate in any country other than the country for which it was designed, manufactured, approved, and/or authorized.

- Any ZeeVee Equipment that has altered or missing serial numbers.
- Any ZeeVee Equipment that has been opened or otherwise tampered with.
- Problems that are directly caused as a result of using any third party accessories, parts or components.

MATERIALS REQUIRED FOR WARRANTY

Please keep your sales receipt and any other documentation showing proof of purchase. Also, keep the original box and packaging material in case you need to return your ZeeVee Equipment.

TO GET WARRANTY SERVICE

Warranty service will be provided by ZeeVee. If you believe you need service for your ZeeVee Equipment, please contact ZeeVee by calling our customer care center at (877)-4ZeeVee; (877)-493-3833. If it is determined that the product needs to be returned for service or exchange, you will receive a Return Material Authorization (RMA) number. Our agents will help you through the process through which you can return the product. ZeeVee is not responsible for customer products received without an RMA number and may reject such products.

TO GET OUT-OF-WARRANTY SERVICE

To obtain out-of-warranty service for your ZeeVee Equipment, please contact ZeeVee by calling our customer care center at (877)-4ZeeVee; (877)-493-3833 for information on the possibility of and any costs for repair or replacement of out-of-warranty products. No agent, company, dealer, distributor, or person is authorized to change, modify, or extend the terms of these warranties in any manner.

LIMITATION OF LIABILITY

In no event will ZeeVee be liable for any amount greater than the retail price of the ZeeVee Equipment. ZeeVee shall not be liable for any incidental or consequential damages (including lost profits) for breach of any express or implied warranty on the ZeeVee Equipment. 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. This warranty gives you specific legal rights and you may also have other rights, which vary from country to country and state to state.

DECLARATION OF CONFORMITY	
Manufacturer's Name:	ZeeVee, Inc. 1 Monarch Drive, Suite 200 Littleton, Massachusetts 01460 USA
declares that the product **Product Name:**	ZvPro Series
Regulatory Product Number:	ZVP820 and ZVP820i ZVP810 and ZVP810i ZVP620 and ZVP620i ZVP610 and ZVP610i (all product options on all variants)
conforms to the following Product Specifications:	
Safety:	IEC 60065: Audio, Video and similar electronic apparatus IEC 60065: 2001 (Seventh Edition) + A1:2005
EMC:	RF Emissions per FCC Part 15 / Canada CS-03 / European EN55022 : Class A EN55024: European Union (RF Immunity/Susceptibility) EN61000-4-2: Electrostatic Discharge EN61000-4-3: Radio Frequency Interference EN61000-4-4: Electrical Fast Transients EN61000-4-5: Surge EN61000-4-6: Conducted Radio Frequency Interference EN61000-4-8: Magnetics EN61000-4-11: Dips and Interrupts The listed products herewith comply with the requirements of the EMC Directive 2004/108/EC and the Low Voltage Directive 2—6/95/EC and carry the CE-Marking accordingly.

All listed products meet the RoHS guidelines for electronic components, and hardware. This complies with the requirements of the (RoHS 2) DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 governing the use of the substances: Lead, Mercury, Hexavalent Chromium, Cadmium, Polybromated Biphenyls, Polybromated Diphenyl Ether, Pentabromodiphenyl Ether, Octabromodiphenyl Ether, Decabromodiphenyl Ether.

Stephen Metzger
Vice President of Engineering
Direct all specific inquires to the ZeeVee, Inc. Engineering Department
October 2015

Contact ZeeVee

Support

For support, repairs, and warranty service contact the distributor where you purchased the product. For additional questions call +1(877) 4-ZEEVEE (1.877.493.3833) or e-mail support@zeevee.com.

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

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