ZvSync - EU
HD Digital Tuner/Decoder
DVB-T / DVB-T2
Notice

Warnings Cautions and Notes

Throughout the entire user’s manual, pay special attention to the following marks that indicate hazardous situations:

**Warning**
Indicates a hazardous situation which could result in serious injury.

**Caution**
Indicates a situation which could damage the equipment or other apparatus.

**Note**
Indicates additional information to make the user aware of possible problems and important information to help understand, use and maintain the installation.

Important Symbols

![Warning Symbol](image)

To reduce risk of electric shock, do not open unit or breach power supply enclosure. There are no user serviceable parts inside. Contact ZeeVee support at +1.877.493.3833.

**DANGEROUS VOLTAGE**
This symbol indicates dangerous voltage inside the receiver that presents a risk of electric shock or personal injury.

**IMPORTANT INSTRUCTIONS**
This symbol indicates important instructions accompanying the receiver.
Safety Instructions and Precautions

This receiver has been manufactured to comply with international safety standards. Please read the safety precautions carefully.

1. **Main Supply (100-240V ~50-60Hz AC)**
   - Operate this product only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to the location where the receiver is to be used, consult your local power company. Disconnect the product from the main power source before you start any maintenance or installation procedures.

2. **Connection to the Cable Feed or Aerial**
   - Disconnect the product from the AC mains before connecting or disconnecting the cable from the aerial jack.

3. **Connection to the Television**
   - Disconnect the product from the AC mains before connecting or disconnecting a cable from the receiver to the attached television. Failure to do so can damage the television.

4. **Overloading**
   - Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock hazard.

5. **Liquids**
   - This product should not be exposed to liquid of any kind. In addition, no objects filled with liquid should be placed on the apparatus.

6. **Cleaning**
   - Disconnect the product from the wall outlet prior to cleaning.
   - Use a light, damp cloth (no solvents) to dust or clean the product.
7. Ventilation  
• The slots and openings on the case of the product must be left uncovered to allow for air to pass in and out for proper cooling.  
• Do not operate the product on soft furnishings or carpet.  
• Do not stack anything on top of the product.

8. Attachments  
• Do not use unsupported attachments as these may be hazardous or cause damage to the product.

9. Extraneous Objects  
• Do not insert anything into the openings of the unit.

10. Location  
• Place the product indoors and avoid exposing it to lightning, rain, or direct sunlight.  
• Do not place the product near a radiator or heat register.  
• Try to place the unit at least 2 inches (~10cm) from any appliance susceptible to electromagnetic influences, such as a television or radio.  
• Insure the ventilation considerations are followed when the unit is in service.  
• Do not place the product on an unstable cart, stand, tripod, or bracket where it can fall. A falling object can cause injury and may cause serious damage to the product.

11. Lightning, Storm, or Not in Service  
• Unplug the product from the wall outlet and disconnect the aerial during a thunderstorm or when left unattended and unused for long periods of time. This will prevent damage due to lightning or power surges.

12. Replacement Parts  
• Replacement parts should be purchased through an authorized ZeeVee distributor and approved by the manufacturer. Unauthorized parts may result in damage to the units and will void any warranty.
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1 Before Using the Product

This section provides detailed descriptions of the product and included accessories.

1.1 FRONT PANEL

1 LED Status Indicator – Indicates state of unit.
   RED – Power is available, but the unit is DEACTIVATED.
   GREEN – The unit is powered-up and ACTIVATED.

2 Infrared Jack – Input for installation of the remote infrared sensor.

3 USB – Input for installation of USB storage device used for firmware upgrade or activation of the advanced media functions. Use is strictly optional.
1.2 REAR PANEL

1 Aerial/Cable/RF Input – Connect to the antenna for over-the-air reception or to a cable feed for DVB-T reception

2 HD Video Output – The video output most commonly used from the receiver unit. Connect to the HDMI digital input of the display device (typically a television). Both high definition video and digital audio are carried.

3 CVBS Video Output – For composite video output, connect the CVBS Video output to the appropriate composite video input of the display device (typically a television or monitor).

4 Right Audio Output – For analog audio, connect to the appropriate ‘Right’ analog audio input on the display device (typically a television or amplifier)

5 Left Audio Output – For analog audio, connect to the appropriate ‘Left’ analog audio input on the display device (typically a television or amplifier).

6 Power Connector – Connect to the plug on the supplied wall-mount power supply.
1.3 REMOTE CONTROL

The ZvSync receiver/decoder is supplied with a partial learning remote control device. Buttons P1-P5 can be programmed to mimic the functions of a select set of buttons from another remote control unit.

The intention is that the TV viewing experience can be controlled from a single handset to include power and volume control of the television set and all other functions directed at controlling the ZvSync receiver/decoder.

As the design of the remote control device is used in multiple applications some buttons have multiple legends or marks.

In general for the ZvSync application, the markings shown on the silkscreen (white marks above or beside buttons) are the active definitions of the key function.
# Button Definitions

<table>
<thead>
<tr>
<th>Key</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="icon" alt="Power" /></td>
<td>Power. Pressing once turns on ZvSync. Again turns it off</td>
</tr>
<tr>
<td><img src="icon" alt="Mute" /></td>
<td>Mute. Disables/Enables audio</td>
</tr>
<tr>
<td><img src="icon" alt="Reverses" /></td>
<td>Reverses playback while in PVR mode</td>
</tr>
<tr>
<td><img src="icon" alt="Fast Forwards" /></td>
<td>Fast Forwards playback while in PVR mode</td>
</tr>
<tr>
<td><img src="icon" alt="Starts Playback" /></td>
<td>Starts Playback when using PVR mode</td>
</tr>
<tr>
<td><img src="icon" alt="Back up" /></td>
<td>Back up to division in PVR mode.</td>
</tr>
<tr>
<td><img src="icon" alt="Pauses" /></td>
<td>Pauses playback in PVR mode</td>
</tr>
<tr>
<td><img src="icon" alt="Advances" /></td>
<td>Advances to division when using PVR mode</td>
</tr>
<tr>
<td><img src="icon" alt="Displays EPG" /></td>
<td>Displays Electronic Program Guide information</td>
</tr>
<tr>
<td><img src="icon" alt="Quick channel up and down" /></td>
<td>Quick channel up and down buttons when watching television programs.</td>
</tr>
<tr>
<td><img src="icon" alt="Stops playback" /></td>
<td>Stops playback when using PVR mode. Causes PVR mode to be entered during normal playback.</td>
</tr>
<tr>
<td><img src="icon" alt="Enables/disables Closed Captioning" /></td>
<td>Enables/disables Closed Captioning</td>
</tr>
<tr>
<td><img src="icon" alt="Cancels/Exits menu levels" /></td>
<td>Cancels/Exits menu levels when navigating interface.</td>
</tr>
<tr>
<td><img src="icon" alt="Activates PVR mode" /></td>
<td>Activates PVR mode. Displays options.</td>
</tr>
<tr>
<td><img src="icon" alt="Displays current playback information" /></td>
<td>Displays current playback information</td>
</tr>
<tr>
<td><img src="icon" alt="Causes repeat mode to be entered" /></td>
<td>Causes repeat mode to be entered when playing stored media</td>
</tr>
<tr>
<td><img src="icon" alt="Color buttons" /></td>
<td>Color buttons. Program specific meaning</td>
</tr>
<tr>
<td><img src="icon" alt="Dash button" /></td>
<td>Dash button for entering digital channel numbers (ie: “23-1”)</td>
</tr>
<tr>
<td><img src="icon" alt="Recall last channel being played" /></td>
<td>Recall last channel being played</td>
</tr>
<tr>
<td><img src="icon" alt="Numeric digits" /></td>
<td>Numeric digits for entering channel numbers</td>
</tr>
<tr>
<td><img src="icon" alt="Navigation buttons" /></td>
<td>Navigation buttons when driving configuration interface.</td>
</tr>
<tr>
<td><img src="icon" alt="During normal playback Up/Down sets channels, Left/Right sets volume and OK displays channel list." /></td>
<td>During normal playback Up/Down sets channels, Left/Right sets volume and OK displays channel list.</td>
</tr>
</tbody>
</table>
Programmable Buttons

The upper-left portion of the remote houses a set of programmable keys. The intent is to allow for common television functions to be programmed so the user only needs to use a single remote control device to manage their television experience when using the ZvSync receiver/decoder.

Keys P1 though P5 can be set to any function the user desires. The labeling is present only to provide visual cues the user may use to help remember which key has been programmed to which function.

The “SET” key has a fixed function that is not programmable. It initiates the programming process for setting the P1-P5 key functions.

Programming P1-P5 Buttons

The ZvSync remote has been tested to be compatible with a large number of remotes. However, some manufacturers use infrared codes that are obscure and cannot be “copied” into the programmable keys of the ZvSync remote.
To program a key the following sequence shall be executed:

**Step 1: Press and hold the “SET” button for three seconds**
- The RED LED lights immediately when the button is pressed
- After 3 seconds the LED changes to a very bright state

**Step 2: Press the key you wish to program (P1-P5)**
- The RED LED changes to a slow flash (1/second)

**Step 3: Press the key on the remote that you are copying**
- The RED LED performs three quick flashes to acknowledge
- RED LED turns on solid again.
- Repeat steps 2 and 3, or simply wait for light to extinguish

**Step 4: Test Programmed key on television or device to be controlled**

*If command is not executing properly, repeat steps 1-3*
2 Setup

This chapter describes how to connect your ZvSync Receiver to the television and receiving apparatus appropriately. The receiver has various options and interface for connectivity. Select the method appropriate to your application.

2.1 CONNECTING TO AN AERIAL

Should over-the-air reception be desired, connect your antenna to the ZvSync receiver’s ‘RF IN’ jack for over-the-air reception, as follows:

![Connect ANT jack on ZvSync to:](image)

- Aerial for O.T.A. content
- Cable feed from wall jack

2.2 CONNECTING TO A CABLE FEED

To receive a cable signal (or a channel generated by ZeeVee’s encoder/modulator products) connect to the ‘ANT’ jack on the rear face with a cable to the source feed.
2.3 CONNECTING TO THE TELEVISION

HDMI Cable

A connection to the HDMI input of a television, if so equipped, is the recommended method to get visual content on to the displaying television. Both visual content and audio content are carried over the single cable from the ZvSync to the television display.

The digital connection presents the highest resolution, sharpest picture possible from the ZvSync receiver.
RCA Cables

Certain televisions or applications do not have digital video inputs. If so, then the ZvSync will output standard definition representations of the programming over the CVBS port. Both the CVBS output and the HDTV digital output are active simultaneously.

All content will be scaled down to 576i regardless of the incoming resolution prior to being sent out the CVBS port.
2.4 INFRARED REMOTE CONTROL RECEIVER

The ZvSync-EU receiver/decoder is supplied with an external IR receiver. This is in the form of a cable with an IR receiver at the end.

The pigtail MUST be installed for the ZvSync to receive commands from the remote and is required for proper operation.

By separating the infrared receiver from the base unit, the main body of the ZvSync receiver/decoder can be installed in an unobtrusive location with only the IR sensor showing.

Connecting to ZvSync

The 3.5mm plug on the infrared pigtail must be plugged in to the front “IR” port on the ZvSync main unit for proper operation.
Usable Angles

The remote control must have a relatively unobstructed “line-of-sight” to the infrared sensor. The usable angles are quite flexible, yielding many possible mounting options. Common is to use the included double-sided tape to mount the IR sensor to bottom or side bezel of the attached television.

At the user’s discretion the main body of the ZvSync-EU receiver/decoder may be placed out of sight, providing the proper ventilation considerations are observed.

2.5 CONNECTING TO THE POWER SUPPLY

The wall-mount power supply (included) provides the power for the ZvSync receiver. Any other method of powering the ZvSync may void the warranty.

Configuring the Power Supply

The AC wall mount power supply has a number of adapter plates for use in a variety of locations with different provisions for connections to the AC mains. Before deployment, select the appropriate adapter and install it securely on the supply body.
As supplied, the power supply will likely be delivered with no adapter plate installed.

Several different plates are provided for a variety of different AC mains plug types. Select the one appropriate for your AC mains supply outlet (UK shown).

Insert the plug into the wall-mount supply body. Turn the plate clockwise about 10 degrees until it “clicks” into place.

Insure that the plate is secure before any attempt is made to plug in to the AC mains.

A different type of adapter plate may be installed later on. To install a new plate:
- Press the release button
- While holding the button, rotate the installed plate approx. 10 degrees counterclockwise
- Remove the currently installed plate
Connecting Power Supply to ZvSync

The wall-mount power supply (included) provides power for the ZvSync receiver. Other methods of powering the ZvSync may void the warranty.

The DC input is rated at 5VDC at a maximum peak consumption of 10W, nominal consumption of 6W during operation, and a standby power draw of 0.8W.
3 Installation Wizard

If you are using the receiver for the first time, or have restored it to factory defaults, the installation guide menu will appear on your screen.

- Select the desired language for the On Screen Display interface
- Select the country (or closest match to the country) in which you will be operating the ZvSync-EU device
  - This is important to properly find the broadcast channels
- Navigate to the “Channel Search” option and the press “OK”
  - The ZvSync unit will then begin searching for channels. Allow it to run to completion. This can take several minutes.
  - On completion the ZvSync should be ready for use to view programs.
After exiting the “Installation Guide” screen, the following screen will appear:

- Use the **RIGHT** arrow key to navigate to the “Channel Search” page
- Use the **DOWN** arrow key to navigate to “Country”
➢ Use the **UP** arrow to navigate to the “**Auto Search**” option
➢ Use the **RIGHT** arrow key to activate a channel search

A scanning status screen showing the progress of the initial channel scan will appear.

Allow the scanning process to run to completion (several minutes).
4 Basic Operation

To access the general setup menu, press the “Menu” button. The user will see with this top-level navigation screen.

Major categories may be selected by navigating left and right using the arrow keys. Once a category is selected, the options may be explored by navigating down into the page and selecting the appropriate page item.

After selecting a page item, “step into” it by navigating to the RIGHT. The function will execute or a sub-menu will be presented with additional options.

4.1 PROGRAM MANAGEMENT

Program Edit

To edit your program preferences (lock, skip, favorite, move, or delete), you will need to enter the Program Edit Menu item. **This menu requires a password to access. The default password is ‘000000’, while the master unlock password is ‘888888’.**
Set Favorite Channels
You can create a short list of favorite programs/channels that you can easily access. Set Favorite TV Program:
1. Select your desired channel then press the FAV button. A symbol will appear and the channel is marked as a favorite.
2. Repeat the previous step to select more favorite channels.
3. Confirm and exit the menu by pressing the EXIT key.

Disable Favorite TV Program
Select the Favorite channel and press the FAV button on the remote to bring up the menu that allows cancelling of a favorite.

View Favorite Channel
1. While in normal viewing mode, press the FAV button and the favorite program menu will appear.
2. Press the up and down arrows to browse to a selection
3. Press the OK button to select that program.
Delete a TV Program

(1) Select the program and then press the **BLUE** button. A warning message will appear.
(2) Press **OK** to delete the channel
(3) Repeat the process if more channels need to be deleted
(4) Hit **EXIT** to complete

Lock Program

You can lock certain channels for restricted viewing using that particular ZvSync.

(1) Select a particular channel and then press the **YELLOW** button. A lock-shaped symbol is displayed. The channel is now locked from selection.
(2) Repeat the process as needed for all desired channels.
(3) To confirm your selections and actions, press the **EXIT** button.
(4) Press the **YELLOW** button to disable the locked channels function.

(5) **To view the locked channels, you will be required to enter your password.** The password can be a user-set password. The default of ‘000000’. The master unlock password is ‘888888’.

EPG (Electronic Program Guide)

The electronic Program guide is an on-screen TV guide that shows scheduled programs for every tuned channel. Press the **EPG** button to access the information.

You can use the arrow buttons to select a preferred program. If there is more than one page of information on the program, use the **BLUE** and **YELLOW** buttons for page up and page down respectively.

Sort

Sort your channels using the following options:
- **LCN** – sorts by Logical Channel Number in ascending order
- **Service Name** – Sort in alphabetical order
- **Service ID** – Ascending Order according to the station ID
- **ONID** – Sorts by ascending order by the Original Network Identifier
### 4.2 PICTURE SETTINGS

![Picture Settings](image)

The allowed output video settings can be adjusted at the “Picture” top-level settings page.

When the HDTV port is connected via HDMI to the display television all the settings are honored. If component video (CVBS) or RF modulation are being used to send the video to the display device the only supported resolution is 576i regardless of the setting on the resolution item.
4.3 CHANNEL SEARCH

The “Channel Search” top-level navigation page allows the ZvSync tuner/decoder to rescan for channels and change settings relevant to the attached reception method.

Auto Search
Automatically searches for channels and saves them once the scan is complete. All previous entries will be deleted.
- Select “Auto Search” and press OK or RIGHT arrow to start
- To cancel press EXIT. Only found channels will be saved.

Manual Search
Allows for the addition of individual channels without deleting the previously saved channels and settings. User must know the exact center frequency of the channel of interest.

Antenna Power
Disable if an external powered antenna is employed
4.4 TIME SETTING

**Time Offset**
Automatic or manual GMT time offset adjustments.

**Country Region**
Select country of interest for use with Auto Time Offset adjustments.

**Time Zone**
Time zone when Time Offset is set to manual.

**Sleep**
Allows setting of an interval after that the ZvSync will automatically shut off

**Power On/Off**
Allows setting a schedule for time-of-day activation and shutdown of the ZvSync device.
4.5 WORLD OPTION SETTINGS

The Option screen allows for setting the On Screen Display language and the audio language to be played if the incoming program allows for those options.

**Digital Audio**
Allows setting various types of audio to be output over the HDTV port.
4.6 SYSTEM SETTINGS

Various System Parameters
Default user password is ‘000000’. Master unlock password is ‘888888’.
The ZvSync device supports a rich set of features enabled through the use of a USB device. In order to support the PVR functions of time shifting and recording, a storage device (*not provided*) must be present.

It is recommended that a high-performance USB storage device be used if these functions are to be utilized. The format must be FAT32. NTFS is not supported.

Use of the PVR and media storage functions is freely available and encouraged. This set of features is not actively supported by ZeeVee and support is not available for the time-shifting, media playing, or PVR functions.

Media types of AVI, MP3, WMA, JPEG, BMP, etc. are supported.
# 5 Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Potential Reason</th>
<th>Possible Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture</td>
<td>Power is not connected</td>
<td>Connect power supply</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check wall source</td>
</tr>
<tr>
<td></td>
<td>The power is switched off</td>
<td>Switch on power to ZvSync</td>
</tr>
<tr>
<td>Screen shows “No Signal”</td>
<td>Cable feed is not connected</td>
<td>Check/Connect power cable</td>
</tr>
<tr>
<td></td>
<td>Aerial cable is faulty</td>
<td>Check aerial and connections</td>
</tr>
<tr>
<td>No sound from speaker</td>
<td>Incorrect or faulty connection with audio cable</td>
<td>Correctly connect the audio cables</td>
</tr>
<tr>
<td></td>
<td>Sound on mute</td>
<td>Select the mute/unmute on the remote</td>
</tr>
<tr>
<td>Only sound, no image on screen</td>
<td>Incorrect A/V cable connection</td>
<td>Check cable connections</td>
</tr>
<tr>
<td></td>
<td>Program is a radio program</td>
<td>The program being tuned may be audio only</td>
</tr>
<tr>
<td></td>
<td>Incorrect setting in digital audio</td>
<td>Set a different audio type in World Options</td>
</tr>
<tr>
<td>Remote control is not working</td>
<td>The battery is exhausted</td>
<td>Replace the remote control’s batteries.</td>
</tr>
<tr>
<td></td>
<td>Remote control is not facing or visible to ZvSync sense window</td>
<td>Reorient ZvSync sense window and remote control</td>
</tr>
<tr>
<td>The picture is breaking up</td>
<td>The input signal is too weak</td>
<td>Check aerial cable and connections</td>
</tr>
</tbody>
</table>
# 6 Technical Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Sub-Item</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuner</td>
<td>Input Frequency</td>
<td>48-862MHz</td>
</tr>
<tr>
<td></td>
<td>RF Input Level</td>
<td>-20 to -82dBm</td>
</tr>
<tr>
<td></td>
<td>IF Bandwidth</td>
<td>6, 7, and 8MHz</td>
</tr>
<tr>
<td></td>
<td>Modulation</td>
<td>QPSK, 16QAM, 64QAM, 256QAM, DVB-T, DVB-T2</td>
</tr>
<tr>
<td>Video</td>
<td>Decoder Format</td>
<td>MPEG4 AVC/H.264 HP@l4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPEG2 MP@ML/HL</td>
</tr>
<tr>
<td></td>
<td>Output Format</td>
<td>480i, 480p, 576i, 576p, 720p, 1080i, 1080p60Hz</td>
</tr>
<tr>
<td></td>
<td>Aspect Ratio</td>
<td>4:3, 16:9, Auto</td>
</tr>
<tr>
<td></td>
<td>Output Port</td>
<td>HDMI(v1.3C), CVBS</td>
</tr>
<tr>
<td>Audio</td>
<td>Decoder Format</td>
<td>MPEG-1(layer 1 &amp; 2 &amp; 3), WMA, AC-3</td>
</tr>
<tr>
<td></td>
<td>Audio Output</td>
<td>Digital Audio over HDMI, RCAx2(L/R)</td>
</tr>
<tr>
<td>USB2.0</td>
<td>Supported Capacity</td>
<td>Unlimited</td>
</tr>
<tr>
<td></td>
<td>Supported Media</td>
<td>MP3, WMA, JPEG, BMP, AVI</td>
</tr>
<tr>
<td>Power</td>
<td>Supply Voltage (wall)</td>
<td>100-240VAC 50-60Hz</td>
</tr>
<tr>
<td></td>
<td>Supply Voltage (ZvSync unit)</td>
<td>5VDC</td>
</tr>
<tr>
<td></td>
<td>Maximum Power Consumption</td>
<td>10W</td>
</tr>
<tr>
<td></td>
<td>Standby Power Consumption</td>
<td>&lt;0.8W</td>
</tr>
<tr>
<td></td>
<td>Nominal Power Consumption</td>
<td>5W</td>
</tr>
</tbody>
</table>
7 Declaration of Conformity

The Original Equipment Manufacturer herewith declares the conformity of the product with the following directives and standards:

**Low Voltage Directive 2006/95/EC**

**EMC Directive 2004/108/EC**
EN 55 020:2007
EN 61 000-3-2:2006
EN 61 000-3-3:2008
FCC, CE, C-Tick

This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed of at the end of its life separately from normal household waste. There are separate collection systems for proper recycling of the constituent elements. For more information, please contact your local environmental authority or the retailer where you purchased the product.
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).

**Sales**
North America:
+1 (347) 851-7364 Phone
sales@zeevee.com

EMEA:
+44 1494 956677 Phone
EMEA-sales@zeevee.com