EasyStream Audio Encoder

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Table of Contents

Part I Introduction 2

Part II Unpacking your EasyStream 2

Part III Obtaining Support 2

Part IV Hardware 2

1 Front Panel 2
2 Rear Panel Connections 3

Part V Settings 3

1 Home Page 3
2 Player 5
3 Streaming 7
4 Hardware 9
5 DSP 11
6 Scope 12
7 Services 13

Part VI Warranty 14

Part VII Declaration of Conformity 14

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I Introduction

This audio encoder will allow you to stream your church services to a cloud based streaming provider such as Listentochurch.com.

II Unpacking your EasyStream

Your EasyStream includes a 5VDC power supply with a USA style plug. Make sure you use the included power supply. Plug the power supply into an existing outlet to power up the EasyStream. The EasyStream should turn on within several seconds.

Use the included 6 pin Phoenix connector to connect the input and output to your mixer.

Note: The line level input cannot handle a speaker level signal. DO NOT plug a speaker level input into the EasyStream.

III Obtaining Support

You may contact us by sending an email to support@easylisten.net.

IV Hardware

4.1 Front Panel

SYSTEM:
Red indicates system errors or DSP connectivity issues
Green - OK

PLAY:
Red indicates unable to connect to stream, Green indicates a connection.
The number of blinks indicate the number of the stream.
Off = not playing

SIGNAL:
Green indicates signal
Orange = 14db - 17.5
Red = greater than 17.5db, where 18 is clipping
Off = no signal

STREAM
Green = streaming
Red = connection issue
Off = no streaming

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POWER Indicates power.

4.2 Rear Panel Connections

IN: Connect a line level signal to the balanced input connector to send audio to the EasyStream.

OUT: Connect a line level signal to the balanced output connector to receive audio from the EasyStream. For example, to stream into your mixer.

Ethernet: Connect an Ethernet patch cable to your router or network switch.

Locating the Easystream on your Network: The EasyStream uses DHCP and will obtain an IP address from your router. You can look in the DHCP table in your router for the IP address of the unit or you can use the discover tool located on our website. http://www.easymix.net/Discovery.exe. You can also configure the EasyStream on manage.easylisten.net. See the Settings 3 section.

How to connect to an unbalanced output on your mixer:
- Connect the shield to the ground
- Connect - on the EasyStream In
- Connect + on the output to + on the EasyStream In

How to connect to an unbalanced input on your mixer:
- Connect + on the EasyStream Out to + on the input of the connected device.
- Connect the ground and - on the EasyStream Out to the ground on the input of the connected device.

Note: The line level input cannot handle a speaker level signal. DO NOT plug a speaker level input into the EasyStream.

V Settings

To access the settings in your EasyListen you'll need to log into manage.easylisten.net. Once logged into manage.easylisten.net, you should see your device. Open the device in your browser to access settings and configuration. If you don't see your device, request to have it added to your account by sending an email to support@easylisten.net along with the devices serial number which can be found on the bottom of the device.

5.1 Home Page

The home page gives you an overview of your EasyStream.

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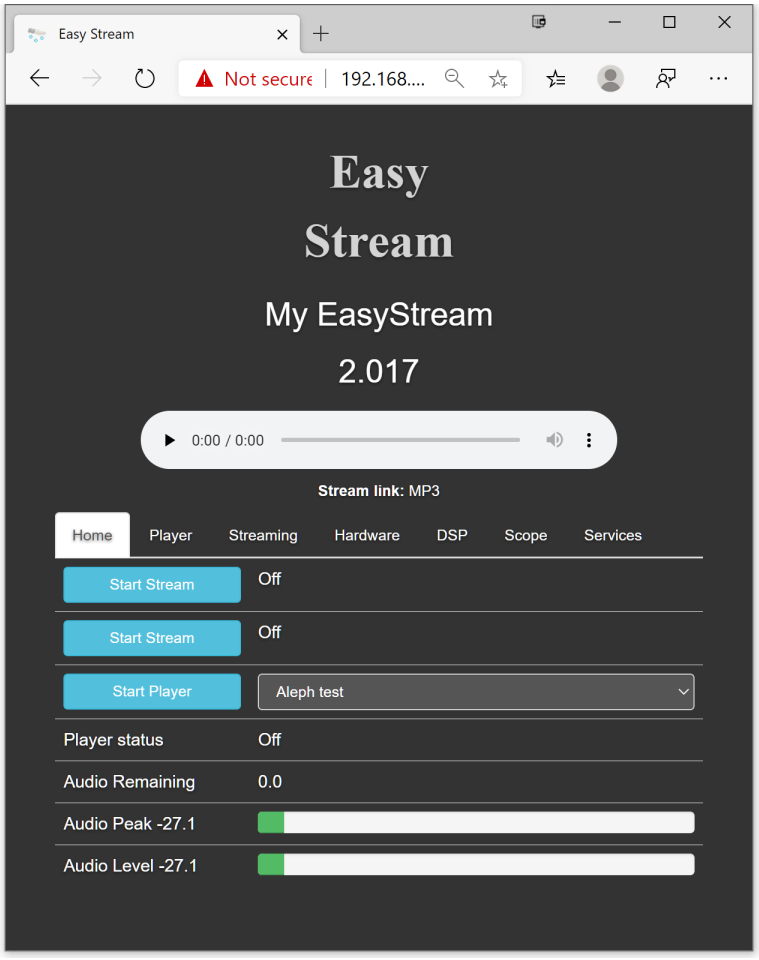

Press **Start Stream** to force a stream on. Press **Stop Stream** to force a stream off.

Press **Start Player** to start the selected player. Press Stop Player to stop the player.

Player status show the status of the audio player.

Audio remaining shows the amount of buffer left in the audio player.

Audio Peak displays the peak level of the EasyStream input.

Audio Level displays the average level of the EasyStream input.

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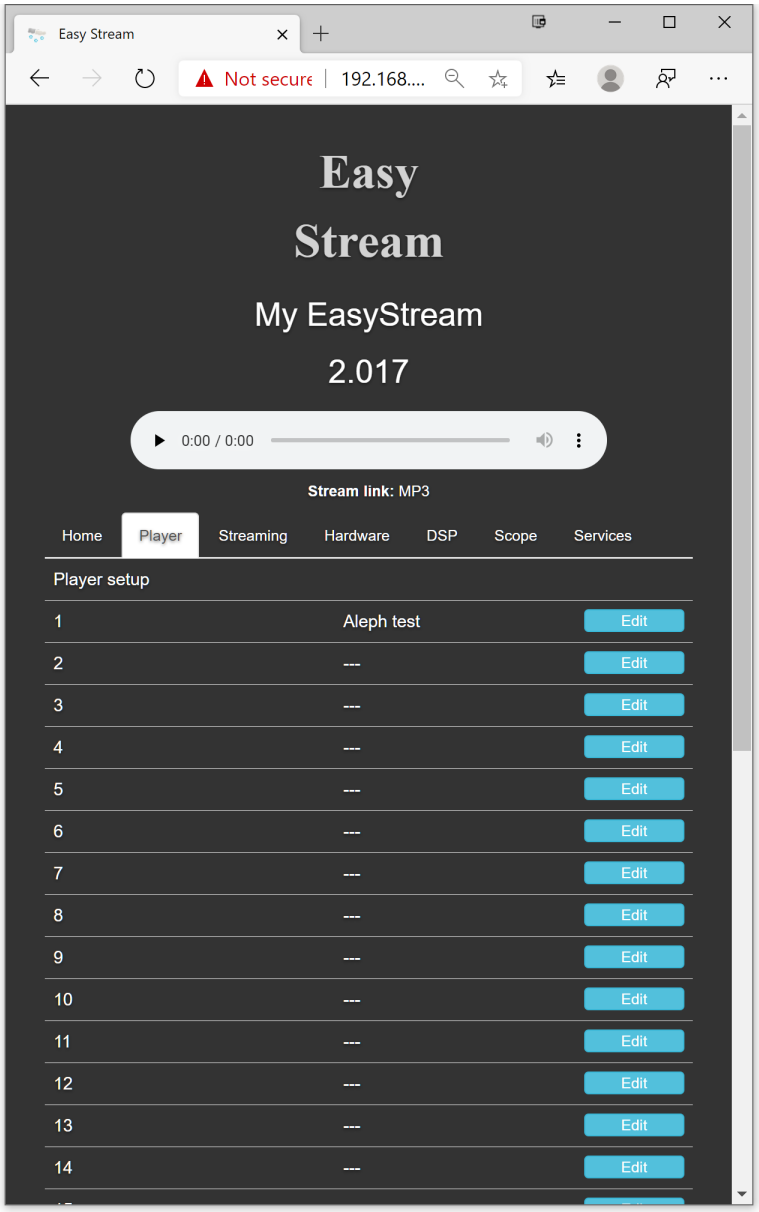
5.2 Player

The Player page is used to program playlists into your EasyStream.



Press **Edit** to add a stream to your player or to change an existing stream.

Add the Url in the format shown.

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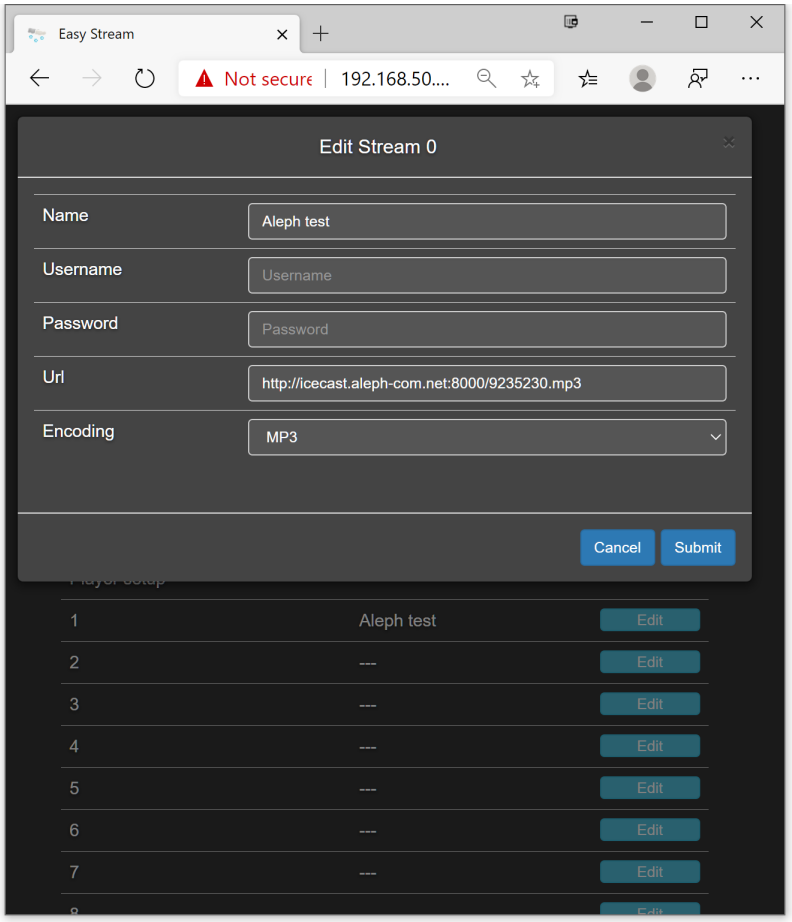

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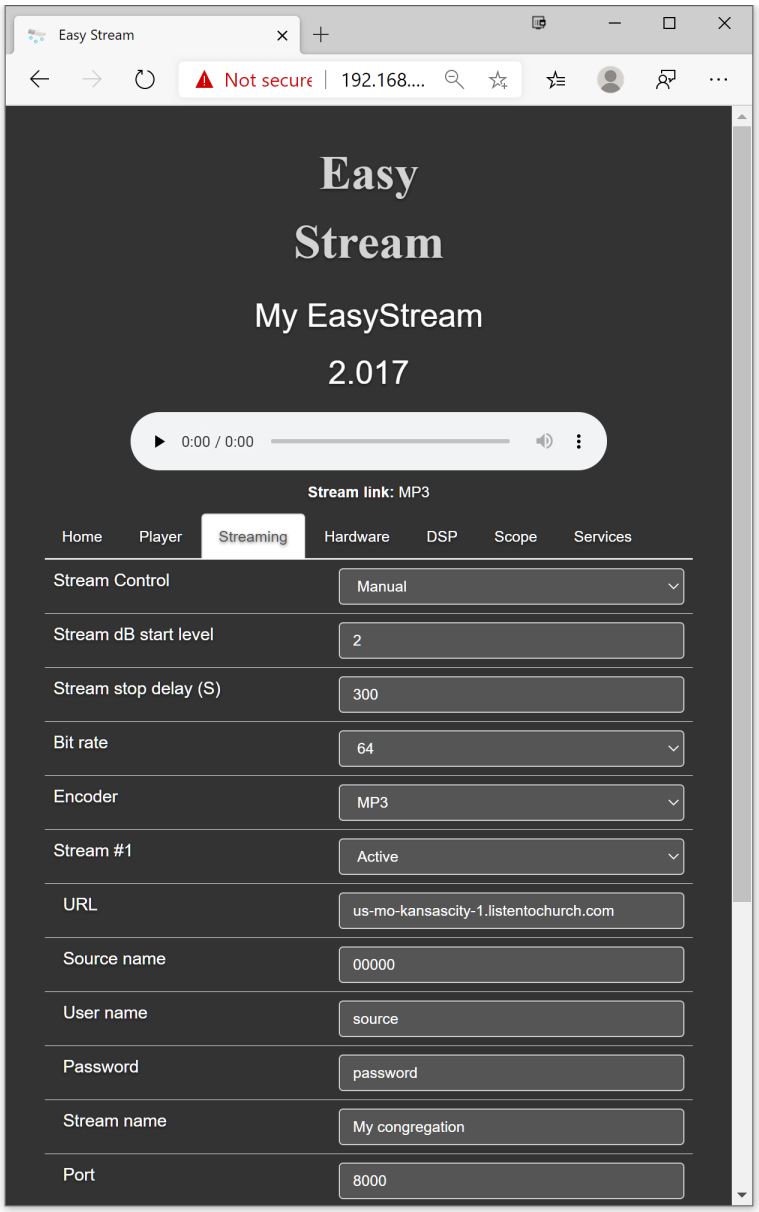
5.3 Streaming

The Streaming page is where you configure outgoing streams. You will have received these details from Listentochurch.com or your stream provider.



Stream Control allows you to set the control mode of the stream.

- **Manual**: Manually start and stop the stream with the buttons on the home page.
- **Audio Level**: The stream will automatically start when the input level exceeds the level set in the **Stream dB start level** field.
- **SymNet**: The stream will be controlled by a DSP as configured on the DSP 11 page.
- **Audio Level SymNet**: Stream will be controlled by a DSP but will also auto start based on the **Stream dB start level** setting.

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Stream stop delay (S): The amount of time in seconds before the stream disconnects after the audio level has dropped below the **Stream dB start** level.

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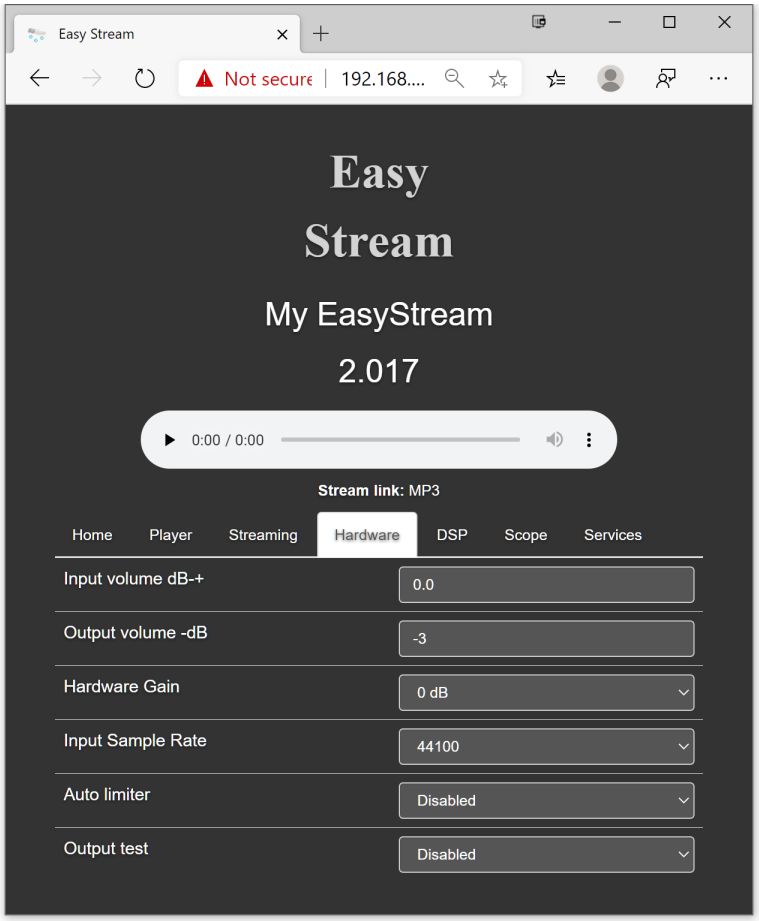
5.4 Hardware

The Hardware page allows you to adjust the input and output of the EasyStream.



Input volume dB-+: Increase this value to increase the sensitivity of the input. This is useful if the output of the signal feeding the EasyStream is too low. Try to target a Peak of between 12 dB and 15 dB on the status page.

Output volume -dB: Adjust this value to change the player level streaming to the mixer.

Hardware Gain: Add additional gain to the line level input if the output of your mixer is too low to achieve satisfactory level with the **Input volume dB** set to maximum.

Input Sample Rate: Adjust the sample rate of the encoder. Normally 44100 or 48000 is used.

Auto limiter: Enable the limiter to add a limiting function to the input.

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Output test: Sends a test tone on the output of the EasyStream for testing purposes.

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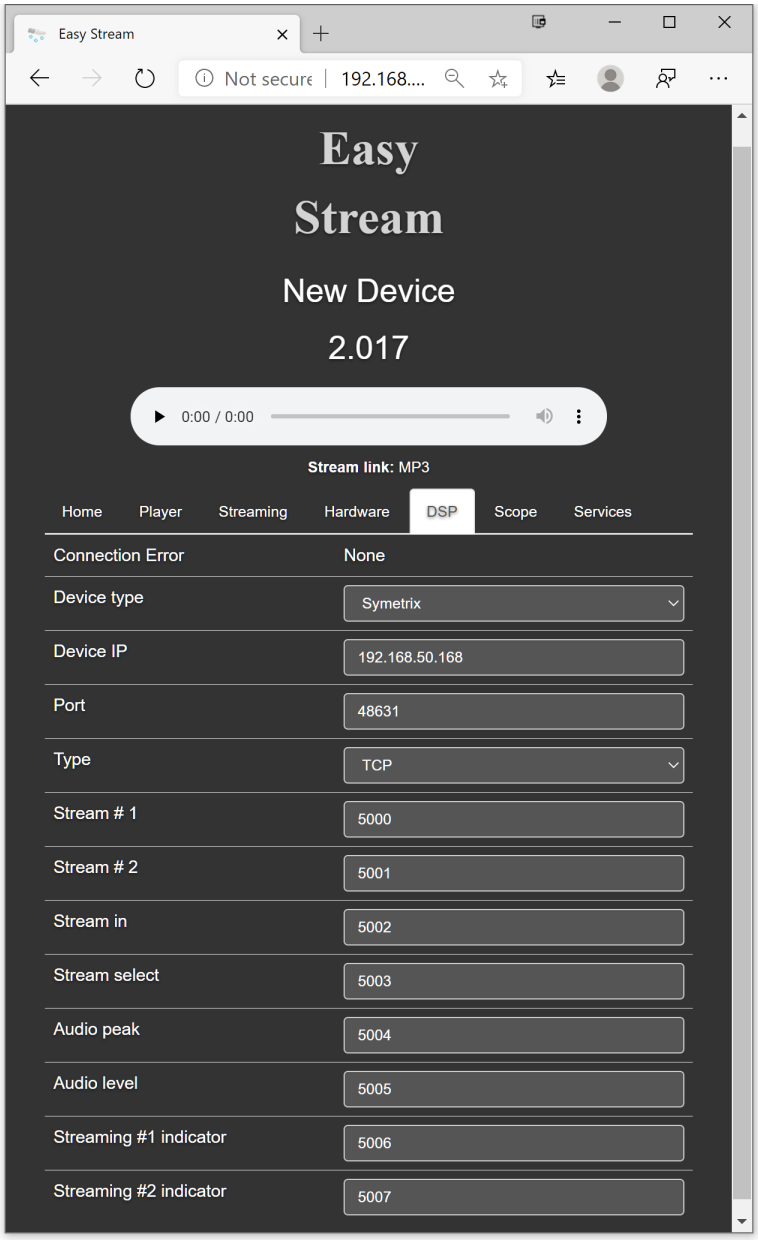
5.5 DSP

The EasyStream is capable of being controlled from a Symetrix or Q-Sys digital signal processor (DSP). Use the settings on the DSP page to configure the DSP control communication. You will need to configure the DSP as well. Contact Montezuma Sound for details.



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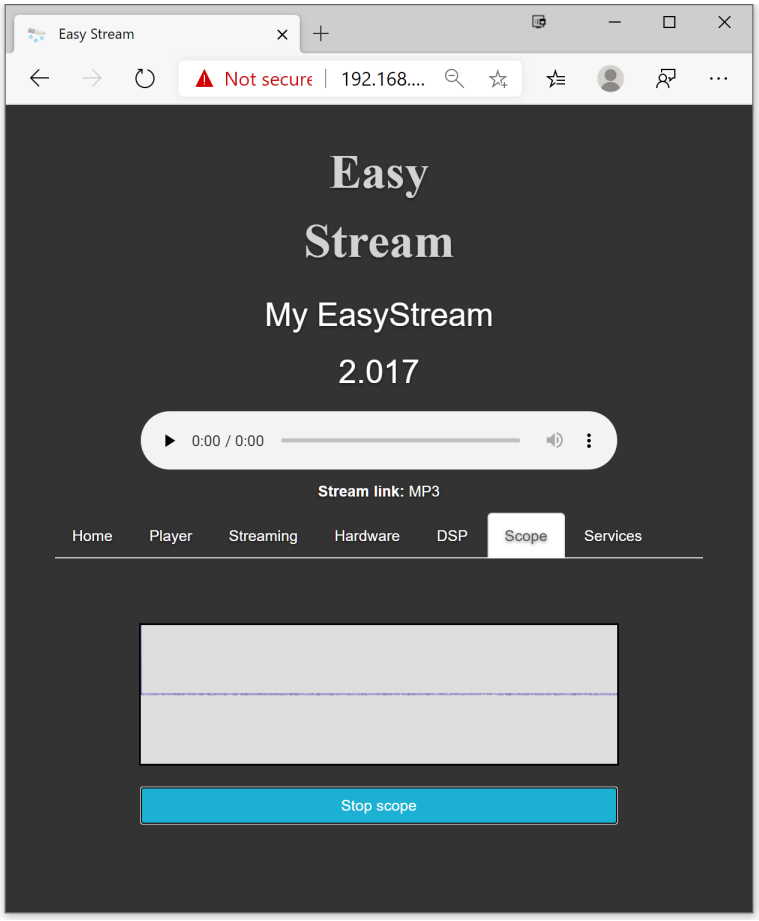
5.6 Scope

Use the Scope to see a visual of the EasyStream input.



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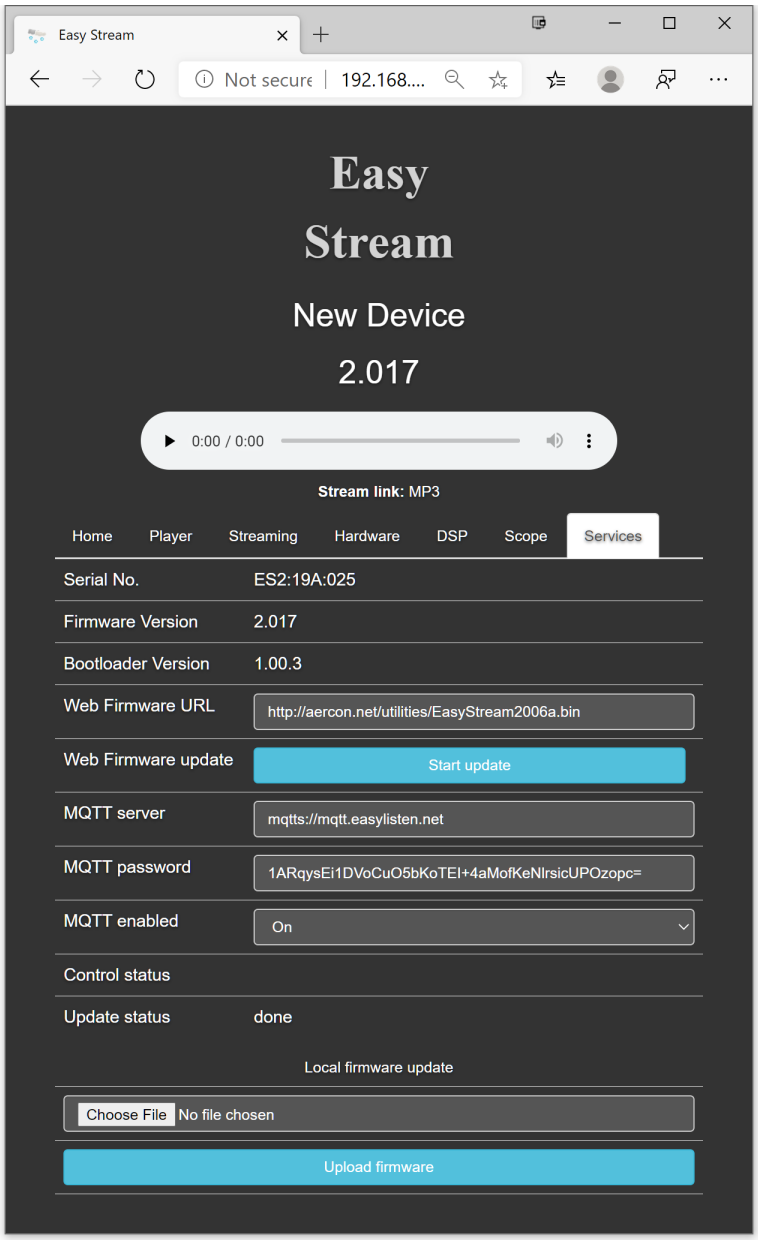
5.7 Services

Firmware updates are handled on the Services page. Only make changes to this page if you are certain you understand what you are doing.



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VI Warranty

Montezuma Sound, LLC warrants Montezuma Sound manufactured EasyStream against defects in materials and/or workmanship for a period of two years from the date of purchase and will repair or replace the defective product without charge.

This warranty does not cover damages resulting from abuse, accident, lack of reasonable care, lightning, or power surges. Montezuma Sound will not pay for warranty services performed by a non-authorized repair agent.

To return a unit under warranty, pack the EasyStream in the the original packaging or using other proper packaging methods and send to Montezuma Sound, 28608 12 Rd, Montezuma, KS 67867. Damage occurring during return shipment is not covered under this warranty.

VII Declaration of Conformity

We, Montezuma Sound, LLC, 28608 12 Rd, Montezuma, Kansas, USA, declare under our sole responsibility that the product: EasyStream, to which this declaration relates, is in conformity with the following standards:

FCC Part 15, Class B

This device complies with part 15, Class B 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.

The technical construction file is maintained at:
Montezuma Sound
28608 12 Rd
Montezuma, KS 67867

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