

## EEG Application Note

### **Streaming HTTP Uplink to VideoLinq**

Applies to Products: HD480, HD490, HD491, DE285, iCap

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The HD480 and HD490 Closed Caption Encoders, and the DE285 Ancillary Data Monitor include a Streaming HTTP Uplink module that posts decoded real-time caption data to an external web service for delivering high-quality web-based closed captioning. The HTTP POST format used is compatible with the VideoLinq™ cloud based video and data encoder service, which can provide interface to a variety of video platforms, content delivery networks (CDNs), and streaming media players.

While the HTTP Streaming Uplink module is active, all closed captions through the EEG encoder or decoder box will be passed to the streaming server. These captions may be locally inserted to the video through iCap, telnet, or dial-up mechanisms (encoders only), or they may be present on the input video, and originally coded using either real-time/roll-up or offline/pop-on workflows.

HTTP Streaming Uplink is also available in a software-only configuration using the iCap network. In this model, no physical video interconnect (SDI) is required. A captioner sends broadcast-style closed caption data over iCap to a software closed caption encoder hosted either on a local Windows™ PC, or virtually in the iCap cloud.

This document will primarily show configuration examples from the HD490 software, but the interfaces for the HD480, DE285, and iCap HTTP Software Encoders use matching terminology and similar formats.

Before beginning with the Streaming Uplink software, you will need a URL for posting captioning (example: <http://in.videolinq.net/caption>), a stream ID or username (example: wjqYZaJ@bdvFK), and a password (example: eeg\_encoder\_1@bdvFK:eegenc1). You will also need a path to the internet for your EEG encoder or decoder, and a valid IP address, subnet mask, and gateway router address entered on the front panel LCD screen.

For HD490 encoders, you may also need the “Streaming HTTP” software update installed. To determine if you have the correct software installed, check your HD490 web configuration page for the module labelled “Streaming” (Figure 1). If the Streaming module is not installed or is unlicensed, contact EEG Support to receive your update.

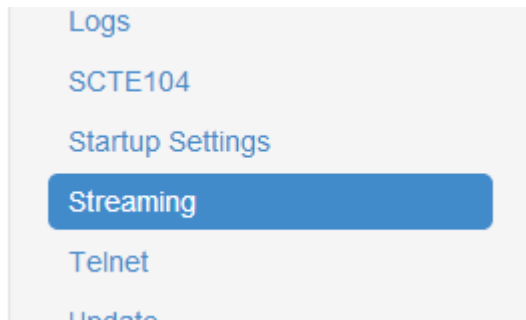


Figure 1 – “Streaming” Menu Item in HD490 SideTab

In the DE285, the HTTP Streaming configuration is located in the “Settings” tab, and is labelled “UVault Settings”.

Configure the URL, Stream ID/username, and password into the input boxes as shown in Figure 2, then check “Streaming enabled” and hit Save.

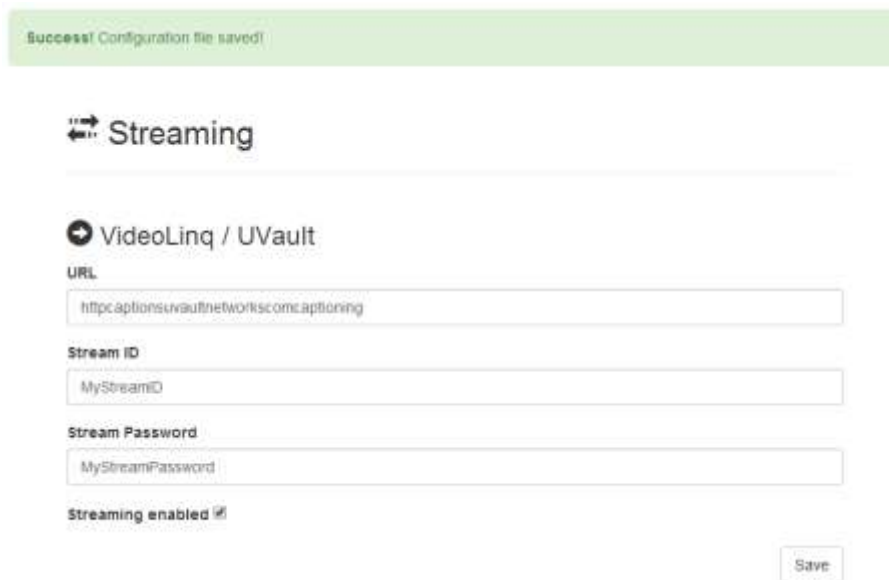
A screenshot of a web configuration page. At the top, a green banner displays the message 'Success! Configuration file saved!'. Below this is a header section with a double-headed arrow icon and the word 'Streaming'. The main content area is titled 'VideoLinq / UVault' with a circular arrow icon. It contains three input fields: 'URL' with the value 'http:captions.uvaultnetworks.com:captioning', 'Stream ID' with the value 'MyStreamID', and 'Stream Password' with the value 'MyStreamPassword'. Below these fields is a checkbox labeled 'Streaming enabled' which is checked. A 'Save' button is located at the bottom right of the form.

Figure 2 – Stream Configuration Page in HD490

Uplink will begin once the “Streaming enabled” box is checked, and CC1/Service-1 captions begin flowing through the encoder. At this time, you should see a “Success” message and

timestamp in the “Status” field if the uplink is successful. Otherwise, you may see a message warning that the URL is unreachable, the Stream ID is unknown, the password is incorrect, or any other issue identified with your caption uplink.

HTTP Streaming Uplink will remain on, including returning after a hardware power-cycle, until the “Streaming enabled” box is unchecked.

Newer versions of the Streaming module also include a style option for the display of roll-up style live captions over your streaming system. For video players that always show only the newest line of captions (like JWPlayer), you can make live captions more readable by selecting the 2 or 3 row options. Other video players (for example FlowPlayer) have their own client-side scrolling behavior and work best with the 1 row option – setting the 2 or 3 option will cause each line of text to appear to be repeating in these types of players.