



EEG Application Note

Caption Text Server

Applies to Products: HD49x Encoders

Last Revised: November 2015

The Caption Text Server is an optional software module available on all model HD49x encoders. The Text Server module produces a text stream of the decoded caption output from the Master video input that is accessible via a TCP/IP connection.

To determine if the Caption Text Server is installed on an HD49x unit, from the front panel LCD menu go to **System Setup | Version** and look for an entry that says **Text Srvr**. If you do not see this entry in your version list, the module is not installed and you will need to install it using an update which can be obtained from EEG support.

To access the streaming text from an encoder unit with the Caption Text Server installed you must use a telnet-style TCP/IP communication program to connect to the unit (e.g. HyperTerminal for Windows, telnet or nc for Unix-like systems, or a custom application using the TCP/IP socket interface available in most programming languages).

- For the IP address to connect to, use the IP that you have set on the front panel on the encoder unit (**System Setup | Network | IP Address**). The device that will be receiving receiving the streaming text must be installed on the same subnet as the EEG unit sending the streaming text.
- For the connecting port number, use **2400**.

If these settings are correct, the Streaming Caption Text Server should accept your connection immediately. At this point, you will receive ASCII text data over the connection which is a copy of any CC1 caption data that the decoder unit is receiving from its input video signal. If you have not purchased a license key, the streaming text will have the word "(DEMO)" prepended to the beginning of each line as a watermark. Applying the license key from EEG will remove the watermark and provide web access to the module on the encoder.

The output text is formatted using blank spaces and line breaks to approximate the intended appearance of the CC1 captioning on a 608-compliant decoder.

When you are ready to stop receiving the caption text, simply disconnect at any time. You may connect multiple clients to the Caption Text Server simultaneously, but it is better to remove connections that are not in use, as a very large number of simultaneous connections could eventually have a negative effect on the system resource usage on the encoder or decoder unit.