

## EEG Application Note

### CCRecord on HD480

Applies to Products: HD480

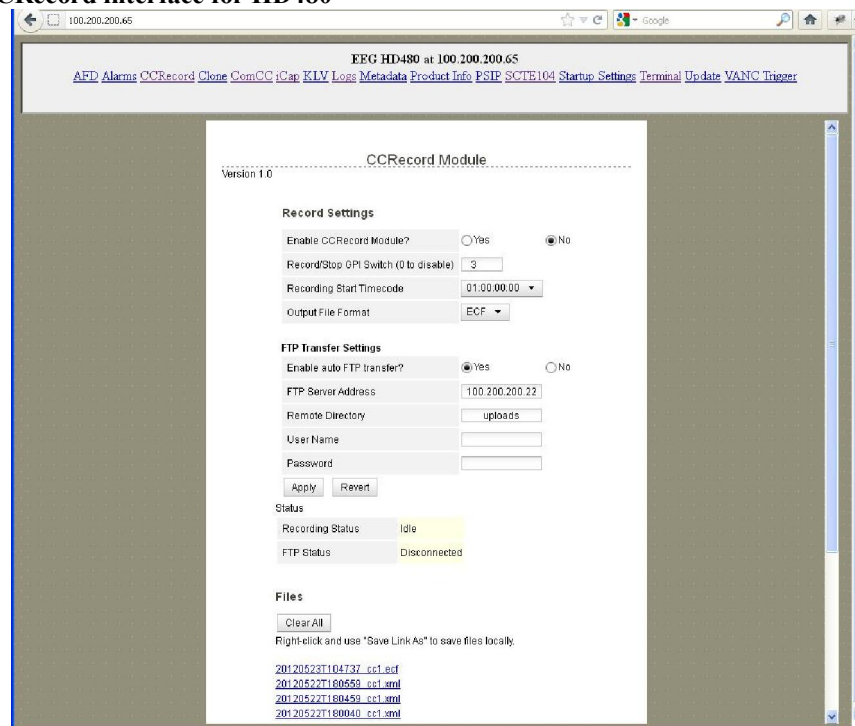
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CCRecord is a software add-on module for the HD480 encoder that creates real time as-run recordings of caption data running through the encoder, in a variety of popular caption file formats. The recorded caption data can come from any combination of upstream or local sources (iCap, modem, serial port), and will always reflect the data encoded on the output of the master video signal.

The recording in and out times for CCRRecord files are triggered in real time through one of the HD480's four GPI switches. The switch number is configurable, to provide maximum flexibility with a variety of HD480 module configurations. The switch is used to begin recording on the rising edge, and to end a recording on the falling edge. A new recording can be engaged immediately once the prior recording is ended.

Each recorded files is uniquely named based on the ANSI timestamp string representing the beginning of the recording. When recording begins, each file begins counting SMPTE drop-frame time code at a default start time of 01:00:00.00. Other options include starting at 00:00:00.00, or using a time-of-day clock. The recording is frame-accurate from this point forward.

Figure 1: CCRRecord interface for HD480



The HD480 can store up to 3 GB of caption files locally, which corresponds to thousands of hours of captioned content. Caption files can be downloaded from the HD480 through HTTP using the web interface, or automatically pushed on completion to a remote FTP directory.

The CCRRecord module can be configured to export in the commonly used ECF or SCC formats for caption editing or re-encoding. These formats are compatible with the EEG CaptionTrack fix-up editor, CCPlay FilePro file-based stitching tool, CCPlay linear caption encoding software, as well as many third-party software packages. CCRRecord also exports into the AAF format, for import into Avid Media Composer D-Tracks.

An upcoming update, in conjunction with EEG's CCMedia Live streaming package for the HD480, will also offer CCRRecord files in the SMPTE-2052 Timed Text format for streaming VOD applications.