

Evertz Solutions

for Closed Captioning Quality and Compliance

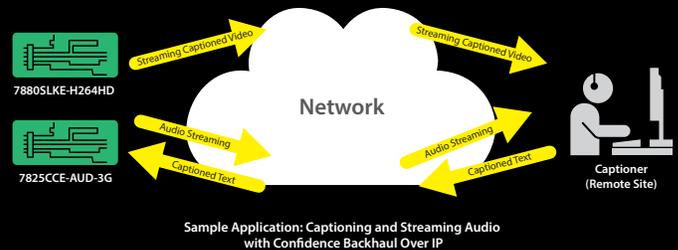
Quality Captions Start At The Encoder

From encoding to monitoring to capturing, the 7825CCE-3G is Evertz' flagship closed caption product that goes well beyond simple caption insertion on 3G, HD and SD-SDI signals. It is a true closed caption encoder with dual paths, offering functionality such as CEA 608 and 708 support, CEA 608/708 "translating," and shifting of caption positioning to avoid placement on top of important content. Interfaces include IP, serial and modem while caption bridging across paths is also supported.



The 7825CCE-3G includes a host of advanced monitoring features including detection of caption presence and the ability to detect and correct formatting errors on existing captioning. Captions may also be compared across the 7825CCE-3G's two paths. This allows captions to be checked for errors incurred anywhere beyond the point of emission from the broadcast facility. Built-in decoding functionality overlays captioning on the local monitoring port outputs. On-board storage can facilitate playback or capture of closed caption data. Captured data may be archived for later compliance review. Evertz VistaLINK Pro NMS software provides both control and monitoring of the 7825CCE-3G, delivering alarm logging along with configurable visual, audible and email alerts.

The quality of captions can only be as good as the audio material provided to the captioner and their connection back to the closed caption encoder hardware. POTS was once the reliable connection of choice, but with the prevalence of IP, POTS landline quality and reliability are diminishing in some areas. The 7825CCE-AUD-3G facilitates captioning over IP, as well as generation of a low-bandwidth audio-over-IP stream with negligible latency, derived from the embedded audio in the source SDI. This allows a complete connection over IP between the remote captioner and the closed caption encoder for both forward path closed caption data and reverse path audio. Additionally, the Evertz 7880SLKE-H264HD Streamlink™ encoder can be added to generate an MPEG2 or H.264 IP stream of the captioned video. This stream may be viewed by the captioner and at other relevant points (e.g. in-house IPTV), providing confidence monitoring of the captioned video.



Evertz' Industry Leading Multiviewers Provide the Ultimate Feature Set for Caption Monitoring



Evertz MVP and VIP multiviewers for baseband SDI and MViP multiviewers for compressed stream monitoring provide a host of features for CEA 608 and 708 closed captions. Built-in closed caption decoders allow captions to be overlaid/burned-in on the video content in any or all monitoring windows. Configurable visual alerts bring attention to windows with problems, including the loss of closed captioning. Configurable "Penalty Box" functionality brings to the forefront any signals with deficiencies, alerting operators of issues such as missing captions.

Closed Captioning Quality Assurance for Transport Streams

Evertz ASI and IP decoder products such as the 7882DEC series detect the presence of captions in the transport stream and are able to reconstruct CEA 608 or 708 captions in the baseband video. Coupled with the 7825CCE-3G and MVP/VIP, Evertz decoders provide the bridge between compressed and baseband signals. This allows the comprehensive monitoring, alarming, comparison and capturing abilities of Evertz captioning products to be leveraged to ensure the integrity of captions in compressed streams.



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