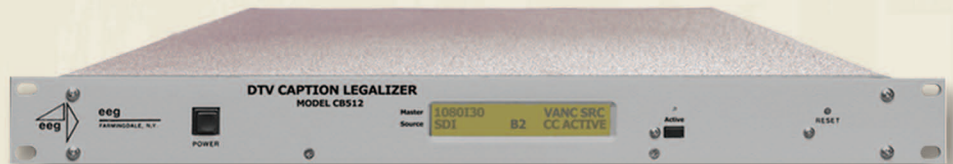


The EEG logo consists of the lowercase letters "eeg" in a white, sans-serif font, positioned to the right of a blue triangle that points upwards and to the right.

The Captioning Solutions Company

CB512: HD CAPTION LEGALIZER/RELOCATING BRIDGE



Meet the Legalizer: The revolutionary CB512 DTV Caption Legalizer™ /Relocating Bridge from EEG is a powerful new solution for broadcasters that virtually eliminates HD captioning problems. It solves difficult-to-debug captioning issues by ensuring a fully compliant data stream, vastly reducing broadcast engineers' downtime from DTV captioning-related difficulties.

As a **caption legalizer**, the EEG CB512 efficiently ensures that broadcasters' caption data complies completely with DTV captioning standards. The CB512 is able to fix common errors introduced in closed captioning flows by SD-to-HD upconverters or incomplete 608-to-708 translation. The Legalizer regenerates all input caption data into a standardized, fully-compliant data stream, compatible with all MPEG encoder specs - a key benefit for broadcasters who ingest captioned material from a wide variety of original sources.

As a result, the EEG CB512 can provide broadcasters with a fully compliant output data stream, using a wide input tolerance and a tight output specification for maximum interoperability. Line number, packetization style, and more are standardized for HD captioning that is ready for successful ingest into any transmission or storage system.

Designed following the success of the EEG CB412, the CB512 adds HD functionality to that system's intuitive **relocating bridge** capabilities. The CB512 seamlessly bridges caption data from one video source to another, between a wide variety of HD formats (1080i, 720p, 24/23.98p, 24/23.98psf), and can relocate caption displays on the screen in response to GPI triggers. Equipped with this capability, broadcasters using the EEG CB512 have a flexible system for caption relocation, satisfying their legal obligation in scenarios where closed captioning could obstruct the viewing of emergency crawls.



BROADCAST

SPECIFICATIONS

- 2 HD/SD-SDI video inputs (1 Master, 1 Source)
- 2 HD/SD-SDI master video outputs (1 relay-bypass protected)
- 4 programmable GPI switches
- 4 GPO signals
- RS-232 SMPTE 333M caption output port
- RS-232 command input port
- LCD screen for caption status monitoring

ADVANCED FEATURES OF THE EEG CB512 INCLUDE:

- Eliminates numerous DTV captioning problems
- Seamless HD relocation
- Versatile caption legalizer
- Accepts wide range of input caption data
- Regenerates, encodes output data

KEY APPLICATIONS INCLUDE:

- Bridges caption data across video sources
- Fixes caption data errors
- Fully compliant datastream generation
- GPI-triggered HD caption relocation

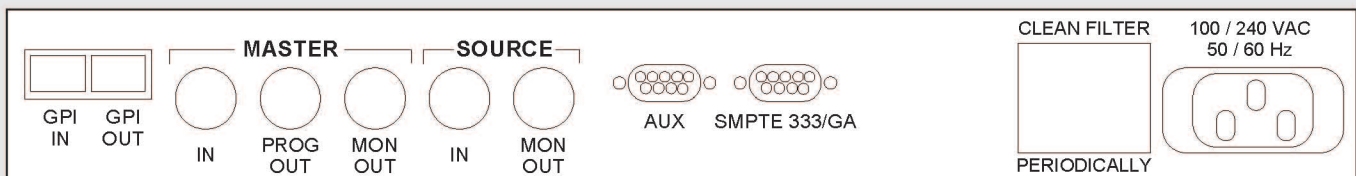
COMMON CAPTIONING ISSUES THAT THE CB512 EFFECTIVELY ADDRESSES INCLUDE:

- Various types of packet formatting problems
- Missing 708 data (aka 608 in a 708 wrapper)
- Captioning located on the wrong line
- Captioning that will not scale because of the way it was constructed
- Captioning that utilizes features beyond the FCC minimum decoder specification

FRONT AND REAR PANEL DIAGRAMS



FRONT PANEL DIAGRAM



REAR PANEL DIAGRAM