

# ACE-2000

## Live Automatic Captioning Engine



The ACE-2000 is a server based automatic speech recognition system that uses a cutting-edge computational linguistics program to process speech into text and caption data from audio content. For live captioning purposes, the ACE-2000 is the perfect solution for captioning content with high accuracy, low latency, and multiple output options.

### Server Based Solution

The ACE-2000, like all ACE series products, is an on-premise solution that does not require an internet connection to function. Although an internet connection is not required, connecting to a network provides streamlined workflows and remote GUI access. The ACE-2000 can receive audio input from several sources. It can de-embed the first two channels of audio from an SDI or HDMI input. Balanced AES, balanced analog audio, and audio from a streaming source are other ways that the system can receive audio. Multiple customizations can be programmed into the units inserters including, speaker identification, number of characters per line, number of lines visible and more. Once a captioning task has been completed, a file is generated with selected transcript fields. Some of the file types include text files, caption files, subtitle files, or time coded text files.

### Intuitive GUI with Extensive Customization

The ACE-2000 system has a user-friendly web Graphical User interface (GUI) where you can perform all relevant caption processing and administrative functions. Caption processing includes, 24 hour scheduling, event creating, task creation, creation of speaker identification, and more. Speaker identification processes voice prints of speakers to create identification tags used to denote individual speakers within the captions. As an administrator, users can be created and set up with unique parameters, tailoring the use of the ACE-2000 to any environment, such as broadcast stations, university departments, school districts, and shared usage throughout a municipality. The ACE series is also capable of translating from English to Spanish, live, without an internet connection.

The ACE series US English dictionary is made up of over 400,000 words with daily language model updates to the unit when connected to the internet. The language models are continuously updated by scanning websites and internal processing of audio during system set up. Users can also load unique vocabulary such as, names, cities and geographical locations. Beyond the US English dictionary, the ACE series supports the following languages: English (US, UK, Ireland, Canada, Caribbean, Asia, India), Spanish (Spain, US-East, US-West, Puerto Rico, Latin America, Mexico, Peru, Argentina, Chile, Colombia), Catalan, French (France, Canada, Belgium, Switzerland), German, Italian (Italy, Switzerland), Swiss, Portuguese (European, African, Brazilian), Basque, and Dutch (Netherlands).

### Exceptional Technical Support

The ACE-2000 includes a 1-year warranty with 24/7 free customer support from Link Electronics' engineering team. Support for the ACE Series includes assistance with system set-up, training, customization, software updates and hardware coverage. The ACE-2000 is available in two convenient bundles; the ACE-2000/492 which includes Link Electronics SCE-492 caption encoder, and the ACE-2000/494 which includes Link Electronics AIP-494 caption over IP encoder. The ACE series products meet the innovative, high performance, flexibility, and reliability requirements seen in all products manufactured and supported by Link Electronics.

## Features

- RS 232 Captioning
- IP Captioning
- Remote GUI
- Event Scheduler
- SDI, HDMI, Analog, AES, Streaming Audio Inputs
- Selectable Caption Location and customization

- Multi-language Captioning
- Speaker Identification
- Integrates with ENPS/MOS, iNews, and Dalet
- Real Time Translation

- Integration with AWS and Google Cloud
- Supports Streaming with YouTube, Facebook and other platforms
- Exports Video and CC for VOD platforms



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### Audio Inputs (one at a time):

AES: ..... One Balanced XLR Female  
 Analog: ..... Two Balance XLRs Female (Left and Right)  
 SDI Embedded: ..... One 75 Ω BNC  
 HDMI Embedded: ..... One Type A Receptacle

### Caption Data Outputs:

RS 232: ..... DE-9 (DB9) Male  
 Ethernet: ..... TCP/IP

### Internal:

CPU: ..... Intel I7 10th Generation  
 RAM: ..... DDR4  
 Drive: ..... SATA 3 (6 Gb/s) Solid State Drive  
 Operating System: ..... Windows 10 IoT Enterprise LTSC (Windows 10 Embedded)  
 Power: ..... ATX 600W Switching Power Supply (Redundant Optional)

### Rear Panel:

USB 3.2 Gen 2: ..... Two Type A  
 USB 3.2 Gen 1: ..... Two Type A  
 USB 2.0: ..... Two Type A  
 Ethernet: ..... RJ-45, Intel Gigabit LAN  
 Monitor (not included): ..... HDMI, Display Port  
 Keyboard & Mouse (not included): ..... One PS/2 or USB  
 Rack Mount Monitor, Keyboard, and Mouse: ..... Optional  
 Rack Mount Sliding Rails: ..... Optional

### Front Panel:

USB 2.0: ..... Two Type A  
 Power Switch: ..... Rocker  
 Reset: ..... Push Button  
 Power indication: ..... Blue LED  
 Drive Activity: ..... Red LED  
 Lock: ..... Limit Access to Switches and USB

### Environment:

Ambient: ..... 0° C to 60° C  
 Relative Humidity: ..... <95% non-condensing

### Mechanical:

Height: ..... 3.5 Inches (2 RU)  
 Width: ..... 19 Inches  
 Depth: ..... 20.8 Inches  
 Weight: ..... 26.5 Lbs