Plixus AE-R Dante

Plixus Audio Engine (Recording)

Description

The Plixus audio engine is a 19" rack mountable device that provides audio processing and signal handling required for the Plixus network.

> It is the beating heart of conference venues that require reliable processing. With core audio functions available right inside the Plixus AE-R, meetings are up and running without the need of an additional computer.

A simple interface gets you all controls right at your fingertips: a volume dial adjusts the volume, a simple record button starts or stops the meeting recording. And with an integrated web server, operators have full control over all settings through an easy, modern, and intuitive web interface. Finally, with a compact 1U design, the Plixus AE-R fits in anywhere.

All in One Cat 5e Cable

The Plixus AE-R has four conference ports. A single cat 5e network cable interconnects the delegate units in daisy-chain or in closed loop for extra redundancy using Televic's patented Dual Branch technology. This standard cable transports high-quality audio.
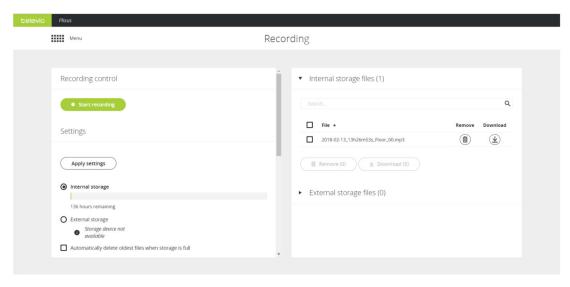
Dante™: Easy Third-party Interfacing

To work with third-party equipment, the Plixus AE-R includes a Dante™ audio networking card (64x64). As a result, the conference system can easily interconnect to Dante™-enabled devices such as Lingua Infrared, DSPs, audio mixers or recording devices. Through the Dante controller software, the audio can then be routed between any Dante enabled device that is available on the network. Even in redundant configurations.

Web Server with User-friendly Interface

A built-in web server makes control over the meetings simple. It's as easy as browsing to the Plixus Core web page and getting started. With an updated user-friendly interface, controlling and configuring Plixus AE-R becomes a joy. From initialization and microphone management to interpretation channels, audio routing and camera control. You can even monitor the status of your network using the built-in Diagnostics application (Note: more advanced functions such as Voting, Agenda Management, Speech Time, etc. require dedicated licenses.)

televic conference

Straightforward Recording

The Plixus AE-R makes recording meetings a breeze. A simple button starts or stops the recording of the floor and up to 3 other languages. The status is visible through a LED next to the button. With an internal recording capacity of 8 GB, over 100 hours of audio (single-stream, 128 kbps MP3 recording) can be recorded. A USB port easily expands the available recording memory: just plug and record. Recorded meetings can be downloaded from the engine's web page with a single click.

External Power Supply

The Plixus AE-R uses an external power supply which brings several advantages. First off, it ensures the unit makes no noise. Secondly, it guarantees the Plixus AE-R's small footprint: only 1U. And third, with room for a second power supply, it provides an additional level of redundancy.

Benefits

Rock-solid Network Performance

Plixus is a packet-based network with a proprietary protocol developed by Televic, specifically for mission-critical conference applications. Through dynamic bandwidth attribution, it offers guaranteed audio quality.

HD Audio

The philosophy of Plixus is to maximize the use of available bandwidth so that there is no need to compromise on audio quality. Audio is passed uncompressed over the network at 48 kSps.

Closed Architecture, Open Interfacing

The Plixus conference network is closed and open at the same time. While for the benefit of security no third-party devices or connections are allowed on the mission critical part of the network, the Plixus Engine at the edge of the network has an open interface. In this way the best of both worlds are combined: open yet secure interfacing.

Self-Healing Topology

The packet-based nature of Plixus allows the conference network to be aware of its topology at any moment. During normal operation data will travel the shortest route from the Plixus Engine to the delegate unit and vice versa. In case of a failure along that route (i.e. a unit failing or a cable breaking) Plixus will self-correct and calculate a new shortest route so that data packets still reach their intended destination, resulting in uninterrupted meetings.

Loop Cabling

For this self-healing mechanism to work, redundant paths must be provided through loop cabling. You may also set up Plixus Network Extenders in a redundant configuration.
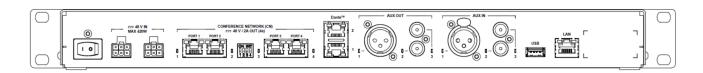
Features

» Easy built-in recording
» No PC required for core functionality
» Seamless combination of wired and wireless units
» Wireless range extension
» 802.1X (MD5, TLS, PEAP-MSCHAPv2) for LAN port only
» Combinations for wireless room split/combine application
» USB port for expandable memory to record longer meetings (volumes up to 500 GB)
» Integrated dynamics processor with programmable threshold, ratio, attack and release of noise gate, AGC and limiter functions.
» Supports interpretation with a default of 11 languages + floor (can be extended to 63 + floor through different licenses)
» Dante™ multi-channel networked audio (maximum 64 channels)
» The engine supports following microphone modes:
    » Direct speak: delegates activate the microphone by pressing the button.
    » Request: pushing the button adds delegates to the request list. The Chairperson activates the next speaker.
    » Group discussion: delegates activate the microphone by pressing the button until the limit is reached. Additional delegates are added to the request list until a spot opens.
    » Operator: delegates can only talk when they are given the floor by the chairperson or operator.
    » Hands-free: all microphones are always open, and everybody can talk. Pushing the button mutes the delegate.

Buttons & Modes

» ON/OFF Power button
» A volume dial on the front allows direct adjustment of the system volume
» Single push button to start or stop recordings
» LED indicator to show recording status (ON/OFF)
» DLP switch to enable and disable power to the Plixus conference ports

Connectivity

- » 2 Power connectors
- » 4 Conference network ports
- » DLP switch
- » 2 redundant Dante ports
- » 1 USB 2.0 ports
- » LAN port
- » 1 Balanced XLR audio input
- » 1 Balanced XLR audio output
- » 2 Unbalanced Cinch audio inputs
- » 2 Unbalanced Cinch audio outputs

Accessoiries

71.98.2930 Plixus PS
Rack mountable power supply for setups where a Plixus NEXT is needed

71.98.2931 Plixus AE-R PS
For other setups with more than 40 delegate units

Specifications

Mechanical	
Material	Steel
Color	Black, RAL9011
Size (mm)	482 (w) × 43 (h) × 195 (d)
Size packed (mm)	567 (w) × 141 (h) × 257 (d)
Weight	2700g
Weight packed	4800g

Electrical	
Supply Voltage	External, 90-264 VAC, 47-63 Hz
Consumption	Max 445 W (including external power)
Audio Quality	24 bit, 48 kHz

Power Over Cable	
Voltage	48 VDC
Continuous output current	2 A

Recording	
Internal	
Size	8 GB
Format	MP3
Quality	64, 128, 196, 256 kbps
External	
Connection	USB 2.0
Format	NTFS
Maximum Size	500 GB

Network	
Cable type	Cat 5e, shielded, FTP
Maximum length between units	80 m
Maximum total cable length within a loop	400 m

Connector	RJ45 standard (shielded)
Security	802.1X (MD5, TLS, PEAP-MSCHAPv2) for LAN port only

IP Control Port	
IP control port link speed	100 Mbps

AUX IN XLR Balanced	
Nominal input level	+4 dBu
Maximum input level	+24 dBu
Input impedance	10 kΩ
Dynamic range	> 90 dB
Frequency response	20-20,000 Hz

AUX OUT Balanced	
Nominal output level	+4 dBu
Maximum output level	+24 dBu
Dynamic range	> 90 dB
Frequency response	20-20,000 Hz
THD @ nominal level	0.1%
Load impedance	> 600 Ω

AUX IN RCA Unbalanced	
Nominal input level	-10 dBV
Maximum input level	10 dBV
Input impedance	10 kΩ
Dynamic range	> 90 dB
Frequency response	20-20,000 Hz

AUX OUT RCA Unbalanced	
Nominal output level	-10 dBV
Maximum output level	10 dBV
Dynamic range	> 90 dB
Frequency response	20-20,000 Hz
THD @ nominal level	0.1%
Load impedance	> 10 kΩ

Dante™ Interface	
Link Speed	1 Gbps
Sample Rate	48 kHz
Sample width	24 bit
Maximum number of input channels	64
Maximum number of output channels	64
Environment	
Operation temperature	5-50 °C

Certification

Region	Certification
Europe	CE