

## PRESS RELEASE

**AEQ PRESENTS ALL ITS 2018 NEW PRODUCTS AT THE NAB SHOW IN LAS VEGAS, STAND C3651, APRIL 9TH TO 12TH**

**Several new communication and IP-based audio products from AEQ are presented, as well as new broadcast monitors and intercom systems with the “KROMA by AEQ” brand name.**

### NEW DEVICES AND APPLICATIONS FOR SYSTEL IP MULTI-CONFERENCE AND BROADCAST PHONE-IN SYSTEM

Systel IP is AEQ's third generation broadcast telephone and multi-conference system operating on VoIP phone lines: it is based on a digital matrix and uses IP lines only, with dynamic and flexible control systems for different Radio, Television and Corporate applications. A new level of user's ergonomics and operating flexibility is attained with the introduction of three new products.

#### SYSTELSET+ control terminal for Systel IP

Control terminal based on a touch-screen IP phone running a new configurable control application in order to be adaptable to the most varied operating requirements. The need for a PC at each workplace is avoided for best operation convenience.



#### Systel IP TV – Multi-conference system for TV

SYSTEL IP TV is a client application allowing for the control of SYSTEL IP 4, SYSTEL IP 12 and SYSTEL IP 16 multi-conference systems in a flexible and generic way which is well suited to the external routing of intercom systems, coordination applications or other specific usages in TV production centers and analogous environments.



It provides, among other functions:

- Establishment of IP phone calls.
- Caller ID and number display.
- Manual and automatic incoming call answering: labeling calls and putting them on hold while listening to a specific feedback, putting them in communication with internal destinations or leaving them in an external multi-conference group.
- Registering new contacts in a phone book.
- Talk to all the lines separately or to all the members of a group simultaneously.
- Displaying and modifying input and return levels for each of the lines and send and listening level of the microphone used to answer the calls.
- Displaying the status of each of the phone lines and where they are being routed to.

## System IP16. VoIP phone system engine with Dante™ connectivity

System IP 16 is a 19" 1U rack unit behaving as a multi-line IP phone with SIP signaling protocol. It can be controlled from the classic SYSTEL IP application, SYSTEL IP TV, SYSTELSET+ IP phones as well as from Neogroupe applications.

It has the capacity for 16 simultaneous IP phone lines and 4 additional ones for operator's IP phones.

System IP 16 counts on 4 digital audio inputs and outputs as well as 2 analog audio inputs and outputs. As an exclusive feature, it also offers ample local IP audio routing capabilities: 32 AoIP inputs and outputs using Dante protocol (compatible with AES 67), so it can be integrated into an AoIP system and use its audio in a flexible way from different devices in an IP network.

## Dante™ BASED IP AUDIO ROUTING SYSTEM

### Netbox DSP and Netbox 32 AD MX

NETBOX DSP is an audio router and processor controllable from NETBOX RTC application, with mixing capabilities. It is able to receive audio from the Dante network and return it processed and mixed to be used in other devices.



It can process up to 64 audio channels. Available processes include low-pass and high-pass filters, 4-band parametric equalizer, compressor, limiter, expander, noise gate and delay.

It can also mix and route between 64 and 160 channels, depending on the particular version.

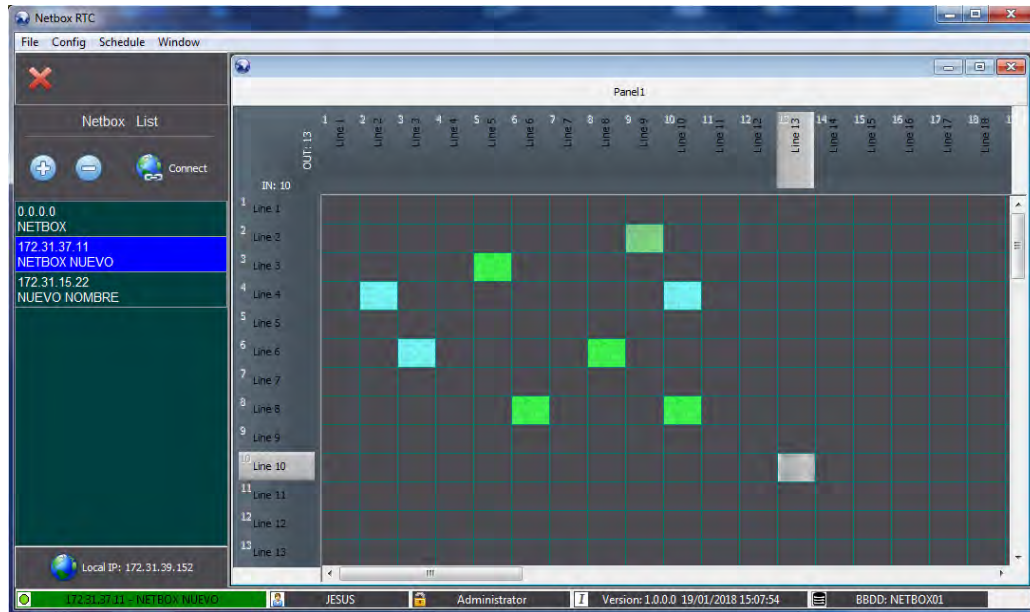
NETBOX 32 AD MX is an audio router with mixing capabilities, controllable from NETBOX RTC application. It features 16 analog inputs and outputs, 8 AES3 dual/stereo and 32 Dante-protocol IP inputs and outputs.

Also, both NETBOX DSP and NETBOX 32 AD MX feature 16 GPI and 16 GPO that can be transported to other devices through the Dante network.

## NETBOX RTC

NETBOX RTC application allows NETBOX 32 AD MX and NETBOX DSP devices to operate as autonomous audio routers with analog, digital and up to 160 AoIP Dante / AES67 inputs and outputs, depending on the configuration.

This application allows for the mixing and distribution of audio and the creation of multiple switching basing on macros and salvos that can be triggered manually, responding to external commands or automatic scheduling. Lines can be protected and control can be distributed among several users and workstations according to a rights policy. Systems including NETBOX DSP can process up to 64 audio signals.



Available processes are: low-pass & high-pass filters, four-band parametric equalizer, compressor, limiter, expander, noise gate and delay.

## With KROMA by AEQ brand LM 9055 BROADCAST MONITOR

Last year we presented the Series 9000 Broadcast Monitors with the **KROMA by AEQ** brand, in sizes of 24" and 31", with 4K resolution, making them ideal for reference and signal monitoring in TV / Video production centers. They feature 10bit processing, signal measuring instruments, HDR, color space adjustment, Closed Captions, etc.

The new 55" monitor will be presented this year.



New connectivity functions in KROMA by AEQ CrossNet and Conexia intercom systems.

Now systems can include User-panels remotely connected through Mercury and VENUS 3 audiocoders.



## ALSO ON SHOW: OTHER PRODUCTS, RECENTLY PRESENTED AND CURRENTLY SHIPPING

### OLYMPIA 3 COMMENTARY SYSTEM

AEQ is probably the company that accumulates more references than any other company for its involvement as an equipment supplier for the broadcasting of large international sporting events. The accumulated experience spans more than 30 years.

<http://www.aeq.eu/aeq-today/events/download-our-references-at-events>.

As a result of all this experience, we presented our 3<sup>rd</sup> generation Commentary Unit at the 2017 NAB Show.

**The CU, Commentary Unit,** is technically the device used to generate and send the Unilateral Audio Signals (commentary) from the event venue to a radio or television broadcaster.



The design and functionality of the OLYMPIA 3 is really impressive:

The unit can operate in three different ways: as a standalone unit (audio mixer), simply connected to a control PC; as a part of an AoIP intercom system operating on a multi-channel audio network (the unit is Dante™ native but is also AES67 compatible) at the same time being an intercom panel for coordination or; forming part of a large scale commentary system.

Each unit features 3 x Gb Ethernet ports. One of them allows for PoE supply while the other two allow for daisy chain connection and have auxiliary output for video and data transport. It can also operate as a standalone audio mixer that may be configured as mono or stereo, with routing, tone adjustments and dynamics control.

It allows for the connection of up to three microphones (one of these can be set to work as the order microphone when operating as an intercom panel whenever required) and two line inputs. The design is a splash-proof construction and allows for outdoor operation under direct sunlight. It can also be configured with reduced brightness for operation in darker and indoor areas.

Its powerful configuration and real-time control application makes it adaptable to any operational scenario and workflow.

AoIP connectivity. AEQ provides the widest range of native DANTETM AoIP networked audio devices for broadcast use: Mixing consoles for ON-AIR and production, Matrix and Routing Systems, Broadcast Automation Playout Workstations, AudioCodecs for program contribution and a wide range of audio input/output interface devices. OLYMPIA 3 can be connected to all of them via AoIP. Further, if using the native DANTETM mode, OLYMPIA 3 can communicate with over 700 devices from third-party manufacturers. AES67 mode further guarantees the interconnectivity with any system or device that is compatible with the AES standard.

## FORUM IP SPLIT DIGITAL AUDIO MIXING CONSOLE

AEQ FORUM is available with a version where the control surface is separate from the Engine or Core. Further, the control surface has been split into modules that can be installed individually.

It supports up to 24 fader channels. The popular SW options, such as VIRTUAL FORUM and FORUM SCREEN, are compatible with this new version.



## SERIES 8000 BROADCAST MONITORS

With the **KROMA by AEQ** brand we show the Series 8000 Broadcast Monitors in sizes of 9", 18" and 24", with 1920 x 1080 Full HD resolution, for reference and signal monitoring in TV / Video production centers. Video over IP input is offered as an option.

### Audiocodex Phoenix Venus 3

PHOENIX VENUS 3 features two bidirectional stereo audiocodex within the same chassis for broadcast quality links for distribution and contribution networks, studio to transmitter links (STL), connections to mobile devices and IP links to remote intercom panels, etc.



This is the first audiocodex in the world that incorporates AoIP multichannel networking connectivity using DANTE™ protocol and making it available at any location within your installations. Includes "Carrier Grade" features such as double IP port, double power supply with 48 V DC option, dual serial ports, centralized remote device control and SNMP.

### NETBOX 4 MH AoIP AUDIO INTERFACE

This unit covers the need for Microphone inputs and headphone outputs for example, radio and TV studios, stage or multimedia installations. The multichannel IP connectivity (Audinate DANTE™ protocol) makes the Inputs of the unit available at any point of the network. As a complementary feature, the unit is sporting the same inputs and outputs as analogue balanced line Inputs and Outputs. Whenever used is in a Studio environment the 4 GPIO's via IP for signaling comes really handy, especially when paired to the Studiobox control box.



### Xplorer – Wireless Intercom System

Includes the small-sized XBP beltpack featuring a touch screen, and also, Xplorer virtual beltpacks are offered, consisting on a software application running on Windows or iOS devices.

## OTHER PRODUCTS DISPLAYED:

You will be able to see, among others, these fine products at AEQ stand:

- Portable and rack-mounted Phoenix Audiocoders: **Alio, Stratos, Mercury.**
- Digital audio matrixes with AoIP Dante™ / AES 67 interfaces: **BC 2000 D** and **Netbox 8 & Netbox 32** AoIP interfaces.
- Digital audio mixing console **AEQ CAPITOL-IP** with AoIP multichannel connectivity and tactile screen for control and monitoring.
- **AudioPLUS** playout automation systems for broadcast. Now featuring direct inputs and outputs to / from the PC to Dante based AoIP networks.

Also, these and other **KROMA** by AEQ products will be displayed:

- Digital intercom system, from 16 x 16 crosspoints to large systems with more than 1000 x 1000 crosspoints with IP wiring, Dante™ Protocol as **ConeXia** and **CrossNet**, including a wide range of audio-processing user panels.
- A really **complete range of broadcast monitors** (TFT) in sizes from 4 to 46". Several series, suitable for different applications and environments, are available.

## ABOUT AEQ-KROMA:

AEQ-KROMA have been developing, manufacturing and commercializing equipment, automation and production systems for radio, television and multimedia, for 38 years. With its commitment to offer the broadcast market high quality products and services, the company offers professional audio and video products with innovative and strong engineering designs, at very competitive prices.



AEQ and its brand name KROMA, have served an array of customers world-wide with its advanced audio technology, broadcast monitors, intercom systems, communications expertise, audio storage applications and automation of multimedia production and broadcasting. KROMA is integrated inside AEQ and keeps its brand KROMA by AEQ.

Moreover, AEQ has been present at the major international sporting events such as the Vancouver 2010, Sochi 2014 and Pyongyang 2018 winter, and the London 2012 and Rio 2016 Summer Olympics and was instrumental in providing the audio signal to a world-wide audience during the broadcast of those events.

As a prominent broadcast equipment manufacturer, AEQ dedicates 25% of its human resources to R&D. This strong commitment to cutting edge technology has resulted in the introduction of new products every year for the last 20 years. AEQ is headquartered in Madrid, Spain, with offices in Mexico and the USA since 1993.

For more information about AEQ and its equipment, systems and activities, please visit [www.aeq.eu](http://www.aeq.eu), e-mail: [aeqsales@aeq.es](mailto:aeqsales@aeq.es) or call +34 91 686 1300. For more information about KROMA equipment, please visit [www.kromatelecom.es](http://www.kromatelecom.es)

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