SOUND
On A Whole New Scale™

TESIRA®

IMAGINE
AUDIO ON A WHOLE NEW SCALE

TESIRA CHANGES THE SCALE OF POSSIBILITIES FOR THE WAY AV SYSTEMS ARE DESIGNED, INSTALLED, NETWORKED AND EXPERIENCED. AND BY CHANGING THE SCALE OF WHAT'S IMAGINABLE, TESIRA GIVES YOU THE POWER TO SUCCEED LIKE NEVER BEFORE.

TESIRA, THE FIRST TRULY SCALABLE MEDIA SYSTEM FOR DIGITAL AUDIO NETWORKING USING AUDIO VIDEO BRIDGING (AVB), DELIVERS SMARTER SYSTEM MODULARITY AND BREAKTHROUGH PERFORMANCE.

TESIRA HAS BOUNDLESS EXPANSION POTENTIAL, WITH:

- MODULAR SCALABLE I/OS, DSPS AND NETWORKED END-POINTS
- A SCALABLE DIGITAL MEDIA BACKBONE (AVB)
- UP TO 8 DSP CARDS IN A SINGLE CHASSIS
- UP TO 420 x 420 DIGITAL AUDIO CHANNELS

AUDIO VIDEO BRIDGING (AVB) — THE NEXT GENERATION IN DIGITAL MEDIA TRANSPORT

Now you can future-proof your projects and your business. With the first open, industry-accepted standards for transporting audio and video over the network, AVB bridges the gap between AV and IT technologies.

The new AVB standards synchronize multiple streams of audio and video, eliminate buffering delays and create resource reservation. And because AVB standards leverage existing Ethernet technology, they will benefit from ever-increasing speeds and enhancements backed by major consumer electronics companies, allowing the AV industry to benefit from solutions aimed at the mass market.

For AV integrators and IT Managers, AVB means end-to-end digital networks that are simple to design and easy to manage. And ultimately, systems that are more profitable for you and more cost-effective for your customers.

AVB advantages include:
- IEEE standards
- Significantly lower latencies
- Larger channel capacity
- Intelligent switches
- Ethernet-based
- Single network for all media, including non-AVB traffic

Intelligibility On A Whole New Scale

The Tesira system features Biamp's new SpeechSense™ Technology and AmbientSense™ Technology, each designed to enhance speech processing by more accurately distinguishing between human speech and ambient noise. This allows Biamp's exceptional algorithms—including acoustic echo cancellation (AEC), automatic gain control (AGC), ambient noise compensation (ANC), and automatic mixers—to perform on a whole new level.

System Design On A Whole New Scale

What if... you could design and expand systems incrementally, floor by floor, phase by phase? Then specify the correct hardware just by pushing a button? You asked, Biamp answered. Introducing Tesira software, including Biamp's *compilation engine* and *partitions*. These breakthrough software tools will simplify system design and specification, save time and reduce costs.

Biamp's Unrivalled Compilation Engine

Designing sophisticated audio systems is easier, faster and more efficient using our *compilation engine*. You can minimize design time, and potentially lower both hardware costs and the costs associated with trial and error.

Simply design the system and click on "compile." The *compilation engine* performs a number of operations in a matter of seconds—from checking that the design is complete, to determining the most cost-effective list of Biamp hardware required, to finally documenting the necessary system interconnects to ensure proper, stable operation. Next the compilation engine takes the list of hardware and determines what interconnects need to be made in order for the system to communicate correctly.

Partitions For Incremental Configuration

Tesira's intuitive design software allows you to configure systems using a phased or "partitioned" approach. Whether you're expanding an existing installation, adding AV to new buildings on an existing campus, or working on a large or complex project, Tesira *partitions* will make your job easier. By designing with *partitions,* distinct areas can be configured, updated or maintained separately without having to reconfigure the entire system, while other areas remain up and running. Not only do Tesira *partitions* provide the opportunity for incremental configuration, working in *partitions* also minimizes redrawing and compilation time.

By taking the guesswork out of audio system design, Tesira's software will save your organization time, money and resources.

Success On A Whole New Scale

For AV and IT system integrators and consultants, Tesira means the opportunity to grow your business by entering new markets and taking on larger-scale projects. And the potential for easier expansion is ideal for projects that are phased or grow over time, such as hospitals, universities and corporate campuses.

When you specify and install Tesira systems, you get the highest-quality audio and a future-proofed system that's more networkable, expandable, reliable and cost-efficient. All backed by Biamp's legendary customer support and the only 5-year warranty in the industry. That means future-proofing for your business, too.

The Tesira Family Of Products

Servers

SERVER: DSP server with AVB interface, 1 DSP-2 card, plus capacity for 7 more and 1 additional AVB-1 interface card or CobraNet® card (SCM-1)

SERVER-IO: Up to 48 channels of I/O, 1 DSP-2 card, plus capacity for 2 more, capacity for AVB-1 or CobraNet card (SCM-1 or standard I/O card)

Server Specialty Cards

AVB-1: AVB network card capable of up to 420 x 420 channels

SCM-1: 32 x 32 CobraNet module

DSP-2: DSP card with 2 DSPs

Server Input/Output Cards

SIC-4: 4-channel mic/line input card

SOC-4: 4-channel line output card

SEC-4: 4-channel mic/line input card with AEC

SAC-4: Ambient noise compensation card

SVC-2: 2-line VoIP card

STC-2: 2-line POTS line interface card

Expanders

EX-IN: 4-channel input expander PoE+

EX-OUT: 4-channel output expander PoE+

EX-IO: 2-channel input & 2-channel output expander PoE+

EX-MOD: Modular expander supports any 3 expander cards

EX-LOGIC: PoE logic expander with 16 logic GPIO (4 GPIO are configurable for potentiometer interface)

EX-Mod Expander Cards

EIC-4: 4-channel mic/line input card for EX-MOD

EOC-4: 4-channel mic/line output card for EX-MOD

EIOC-4: 2-channel input & line output card for EX-MOD

Ethernet Controls

TEC-1s: PoE Ethernet Control Surface Mount

TEC-1i: PoE Ethernet Control In-Wall Mount

BIAMP®
SYSTEMS