



PRO 16[®] SERIES

PERSONAL MIXING &
DISTRIBUTED AUDIO



AVIOM[®]

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Aviom's Pro16[®] Series is the industry standard personal mixing system, bringing unparalleled control to countless musicians around the world. Connected by the Pro16 version of A-Net[®], the Pro16 Series has transformed monitor mixing and audio distribution over Cat-5e in a host of applications—on stages, in houses of worship, in studios, on sets, in orchestra pits, and more.

▶ PERSONAL MIXING FOR ANY APPLICATION

Aviom Personal Mixers guarantee perfect monitor mixes at every rehearsal, performance, and recording session. The interface for musicians is intuitive, and system setup and teardown are quick, with direct digital connectivity to the world's leading digital consoles. No matter the size of the ensemble, venue, or audience, the Pro16 Series improves monitors, streamlines engineers' workflow, and elevates the overall quality of the performance.



▶ FAST & EFFICIENT AUDIO DISTRIBUTION

Aviom's Pro16 Series is a simple and cost-effective way to distribute audio to multiple locations. From simple digital snakes to complex audio distribution systems, Aviom saves designers, installers, and engineers valuable time, while delivering exceptional performance to users.

A CLOSER LOOK AT PRO16 A-NET

- Sub-millisecond latency, from analog in to analog out
- 24-bit, 48kHz digital audio
- 500ft/150m Cat-5e cable runs
- Up to 64x0, 48x16, or 32x32; unlimited lossless digital splits
- Simple plug-and-play setup
- No computer programming



HOW PRO16 SYSTEMS WORK

Audio In, A-Net Out...

To get audio into the system, use an input module or console interface card. Audio can be drawn from virtually any source: microphones, console outs or inserts, CD players, and the like. Audio is output as an A-Net digital stream.

...A-Net In, A-Net Out...

Connect the A-Net Out to the A-Net In on any Pro16 device. Simplify your network connections by combining multiple A-Net streams onto a single cable or splitting an A-Net stream to multiple destinations.

...A-Net In, Audio Out

Use output modules or Personal Mixers to convert the audio back to analog, either as separate channels or as a stereo or mono mix.

"Aviom is a backbone for our performances. We use Aviom whenever we play to ensure the best live experience possible."

-Matt Odmark
Guitar & Vocals, Jars of Clay



INPUT MODULES & CONSOLE CARDS

Audio In, A-Net Out...

▶ **AN-16/i** Input Module

The AN-16/i provides 16 balanced line-level inputs. An audio thru jack is available for each input channel, allowing the AN-16/i to be seamlessly inserted into an existing audio signal path.

- 16 balanced inputs (TRS)
- 16 balanced thru jacks (TRS)
- A-Net Out and Expansion (RJ45)



▶ **AN-16/i-M** Mic Input Module

The AN-16/i-M has 16 high-quality microphone preamps and accepts mic- and line-level inputs. Each channel features a three-segment level meter, continuously variable gain control, phase invert, phantom power, and a low-cut filter.

- 16 balanced inputs (XLR/TRS combo jack)
- 16 passive mic splits (XLR male)
- 16 balanced insert sends and returns (TRS)
- A-Net Out, Aux Out (EtherCon®), and Expansion (RJ45)



▶ **AV-M8** Mic Input Module

The AV-M8 provides eight mic-level inputs. The unit may be mounted in a rack or to a table or podium, using the reversible mounting flanges or optional rack ears.

- Eight analog inputs (six mic, two mic/line)
- ADAT® In and Out for cascading two AV-M8 modules
- Phantom power, low-cut filter, and gain control
- A-Net Out and Expansion (EtherCon)



▶ **Aviom16/o-Y1** A-Net Card for Yamaha®

The Aviom16/o-Y1 A-Net Card eliminates the need for an analog input module, providing a direct digital interface between Yamaha digital products and Aviom's Pro16 Series.

- One A-Net Out (EtherCon)
- External configuration DIP switches



...A-Net In, A-Net Out...

NETWORK DEVICES

► **A-16D Pro** A-Net Distributor

The A-16D Pro accepts one A-Net input and provides nine parallel A-Net outputs. Eight A-Net Out jacks include DC power for powering Personal Mixers over Cat-5e. The ninth output is an unpowered A-Net Thru, designed primarily for distributing a copy of the A-Net signal to a second A-Net Distributor or remote location.

- One A-Net In (EtherCon)
- Eight powered A-Net Outs (EtherCon)
- One unpowered A-Net Thru (EtherCon)



► **A-16D** A-Net Distributor

With one A-Net input and eight parallel A-Net outputs, the A-16D replaces daisy-chain connections with star configurations. The A-16D can also distribute DC power out any of the eight A-Net Out jacks, relocating the power supplies for up to eight Personal Mixers.

- One A-Net In (RJ45)
- Eight A-Net Outs (RJ45)
- Eight optional DC power inputs



► **AN-16SBR** System Bridge

The AN-16SBR can be used to simplify Cat-5e connections in systems with more than 16 channels. One AN-16SBR is used at each end of every 32-, 48-, or 64-channel run, to combine and separate 16-channel A-Net streams onto one cable.

- Four A-Net ports (EtherCon)
- One Bridge port (EtherCon)
- Supports up to 64x0, 48x16, or 32x32



"Aviom products have made things so much easier for us. Every time I use the system, it's rock solid."

-Gregg Kita
Sound Engineer, RGEAR Worldwide

PERSONAL MIXERS

...A-Net In, Audio Out

▶ **A-16II** Personal Mixer

The A-16II allows individual performers to create custom monitor mixes. Designed for use in live performance or the studio, the A-16II provides control over channel volume, grouping, pan/spread, as well as master volume and tone.

- Line/headphone stereo output
- 16 presets for storing custom mixes
- Channel solo, mute, and group functions
- Master volume, treble, and bass controls



▶ **A-16R** Personal Mixer

Designed to simplify connections to wireless in-ear monitors and unpowered floor wedges, the A-16R couples all the mixing features of the A-16II with additional connectivity options.

- Balanced line-level outputs (XLR and TRS)
- Stereo balanced inserts (TRS)
- Front-panel headphone jack



▶ **A-16CS** Control Surface

The A-16CS Control Surface is an optional remote controller for the A-16R Personal Mixer.



ACCESSORIES

▶ **MT-1** Mic Stand Mount

The MT-1 allows an A-16II or A-16CS to be mounted on a standard mic stand or EB-1.



▶ **EB-1** Extension Bracket

The EB-1 allows an A-16II or A-16CS to mount to the shaft of a standard mic or music stand.



▶ **MT-X** Expansion Box

The MT-X ruggedizes an A-16II or A-16CS and provides additional connectivity options.



ANALOG OUTPUT MODULES

▶ AN-16/o v.4 Output Module

The AN-16/o v.4 provides 16 balanced analog outputs, with switchable output levels per channel pair.

- 16 balanced outputs (DB25)
- A-Net In, A-Net Out, and Expansion (EtherCon)



▶ AV-P2 Output Module

The AV-P2 provides up to two channels of analog outputs, selectable with a rotary switch.

- Two balanced outputs (Euroblock)
- Independent output levels for left and right channels
- Rotary channel selector
- A-Net In and A-Net Out (RJ45)



ADDITIONAL CONNECTIVITY OPTIONS



Pro16 Series network devices, output modules, and Personal Mixers can be used in conjunction with Aviom's Pro64® Series audio networking products. These hybrid systems offer the most advanced audio connectivity combined with the power and simplicity of the world's leading Personal Mixers. To connect compatible Pro16 devices to a Pro64 network, utilize the Pro64 ASI A-Net Systems Interface.



Leading manufacturers of digital mixing consoles offer simplified direct digital connectivity to Aviom's Pro16 Series Personal Mixers, output modules, and network devices. Partner console manufacturers include:

- Avid/Digidesign
- Innovason
- Studer
- Yamaha
- DiGiCo
- Soundcraft
- TASCAM

"Aviom products are essentially digital building blocks from which we can design and implement a cost-effective digital snake that integrates seamlessly with any digital Yamaha console."

-Christian Bechard
Senior Designer, Novita Techne Limited



PRO16 INSTALLATIONS



The Bamboo Room Studios

Using Aviom Personal Mixers streamlines recording sessions for engineers at The Bamboo Room by reducing setup time and allowing musicians to focus more on their performance. Giving musicians improved control of their monitor mixes allows engineers to concentrate on recording and mixing.

"I always thought headphone mixes were the weakest link in any recording studio; Aviom changed that and made my life a lot easier. Not only does the Aviom system give every individual musician a balance they personally dial in, but also unsurpassed audio quality."

-Edwin Musper
Recording Engineer, The Bamboo Room

Eagle Brook Spring Lake Park Church

Eagle Brook's Spring Lake Park campus features a Pro16 digital snake connecting the stage to front of house, plus a personal mixing system comprised of both A-16II and A-16R Personal Mixers. In addition, the church utilizes Aviom's Pro64® Series to connect front of house and their video room.

"The Aviom system right out of the box was a great fit for us. It has really made a big difference and has given us greater control over the audio throughout the worship center."

-Bill Berger
Director of Technical Arts, Eagle Brook



Designed and Installed by Audio Logic Systems



ATK Audiotek

As a leading sound reinforcement provider for the professional audio and broadcast industry, ATK Audiotek has handled events from Super Bowl halftime shows to awards shows such as the Academy Awards®. ATK routinely relies on Aviom systems to streamline production and communication.

"This system has long worked for us at events such as the Grammys and the Oscars. Using control boxes and headsets, it creates a perfect communication network for large orchestras as well as for bands. The Aviom mixers make it possible."

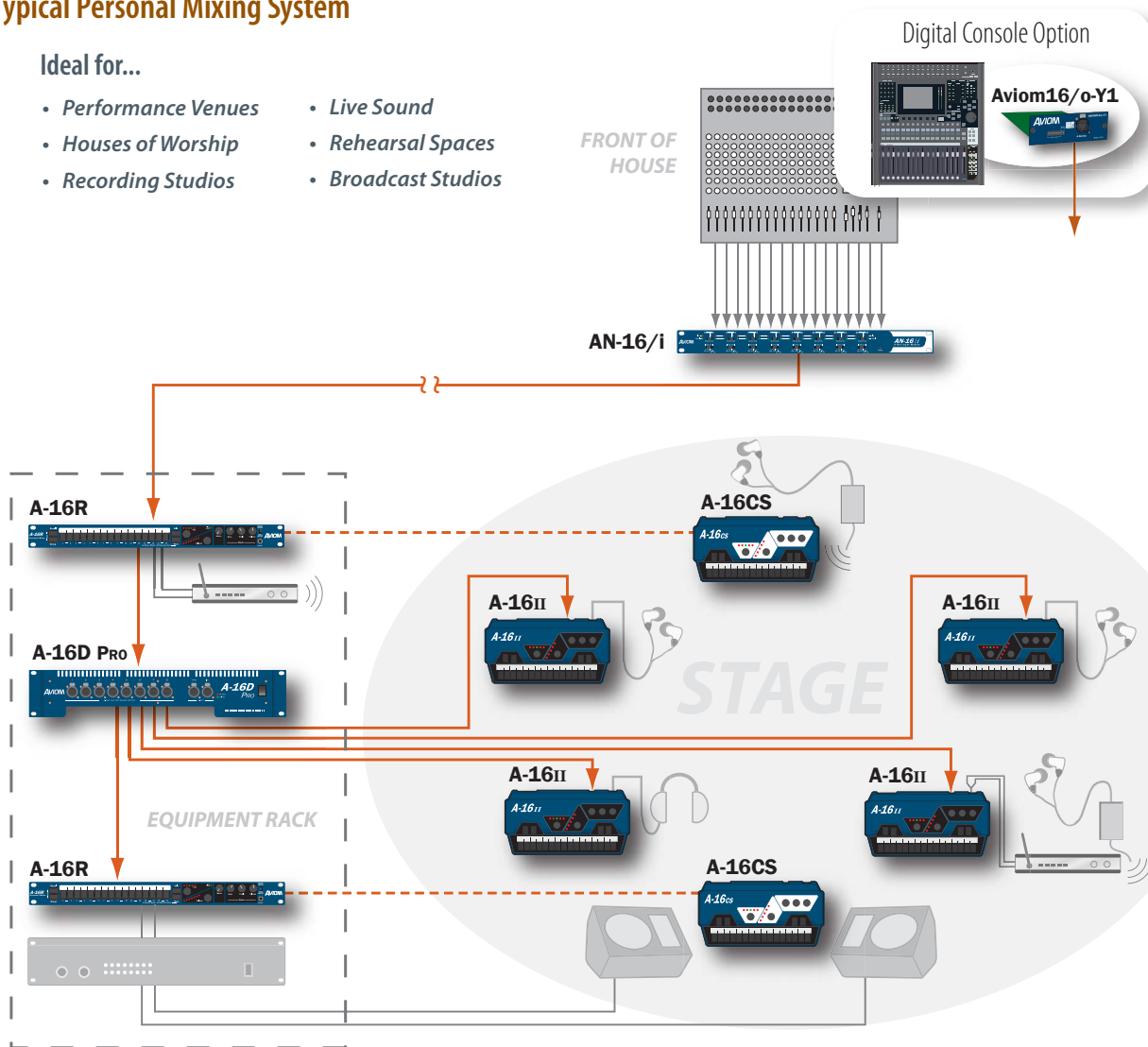
-Andres Arango
Staff Engineer, ATK Audiotek

SAMPLE SYSTEMS

Typical Personal Mixing System

Ideal for...

- Performance Venues
- Houses of Worship
- Recording Studios
- Live Sound
- Rehearsal Spaces
- Broadcast Studios



“Aviom has completely revolutionized how we operate as a band. The system saves time and eliminates surprises. I couldn’t be happier.”

-Brandon Grissom
Recording Artist and Next Gen Worship Leader
Willow Creek Community Church

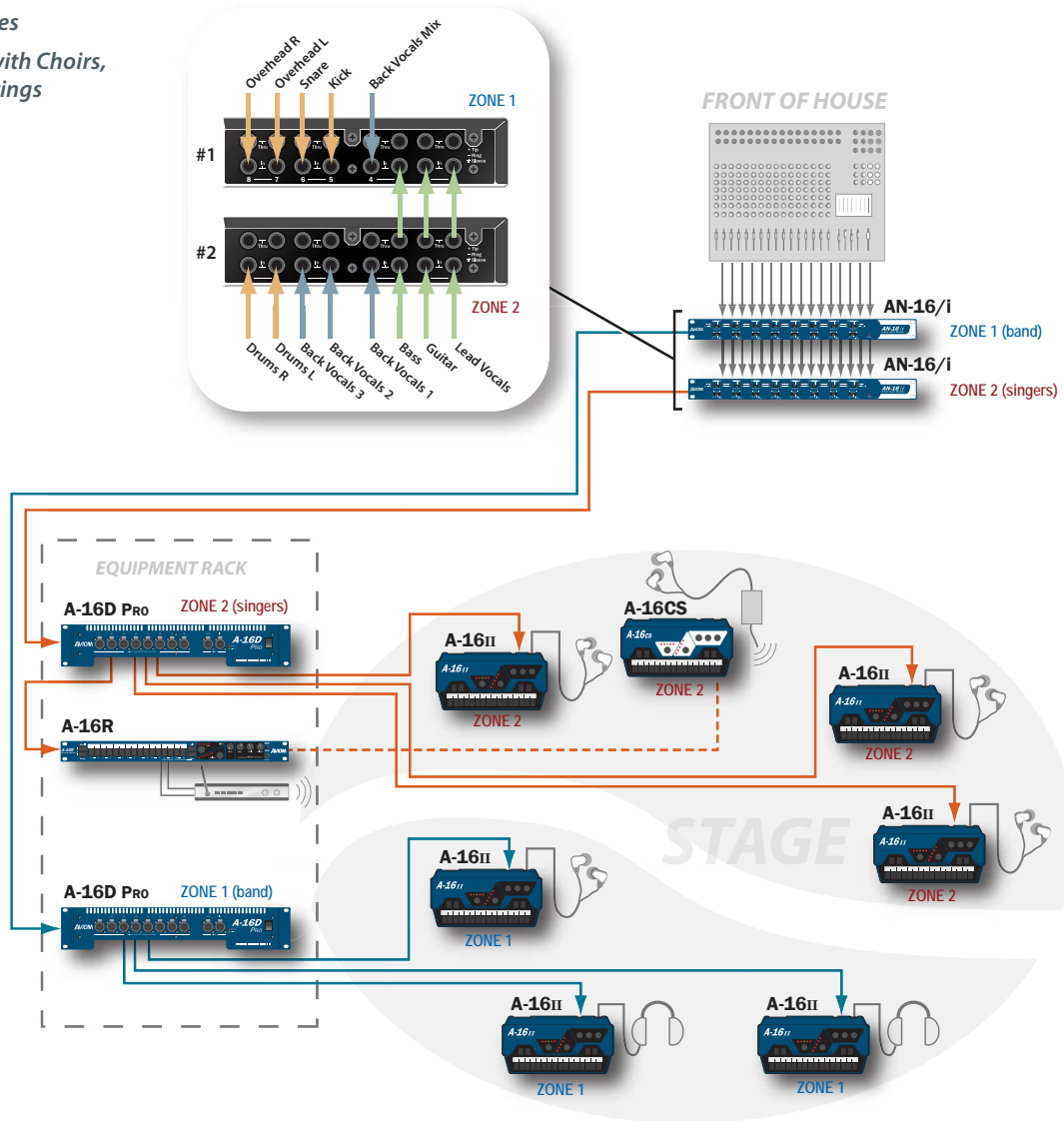


SAMPLE SYSTEMS

Multi-Zone Personal Mixing System

Ideal for...

- Larger Venues
- Ensembles with Choirs, Horns, or Strings
- Orchestras



"We moved the performers to an in-ear monitor system with Aviom Personal Mixers and eliminated most of the wedge monitors, which really cleans up the live sound."

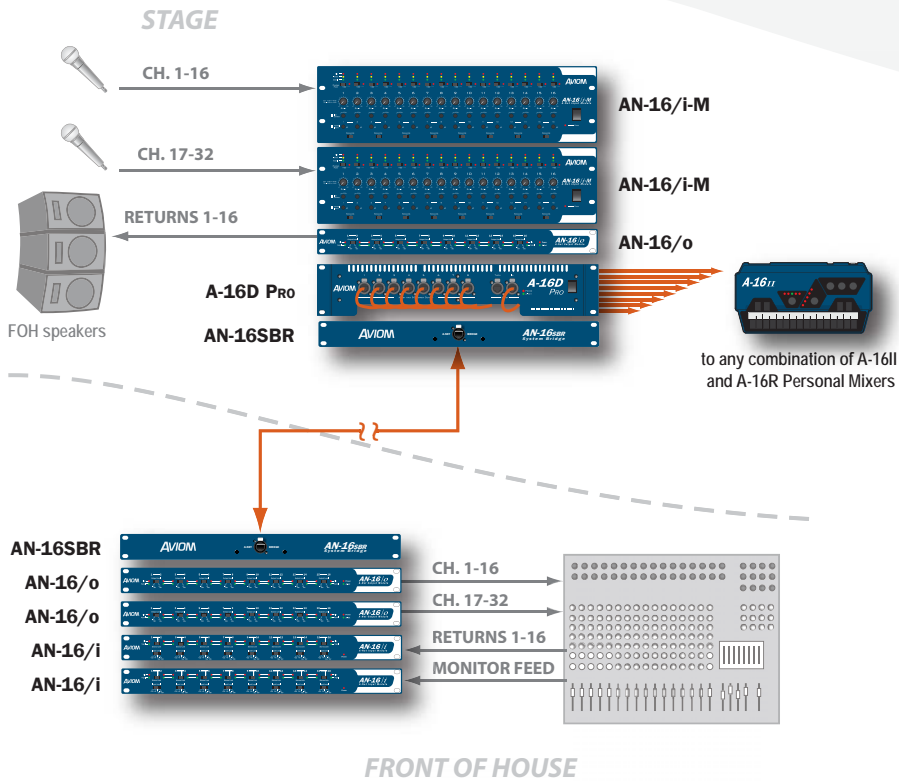
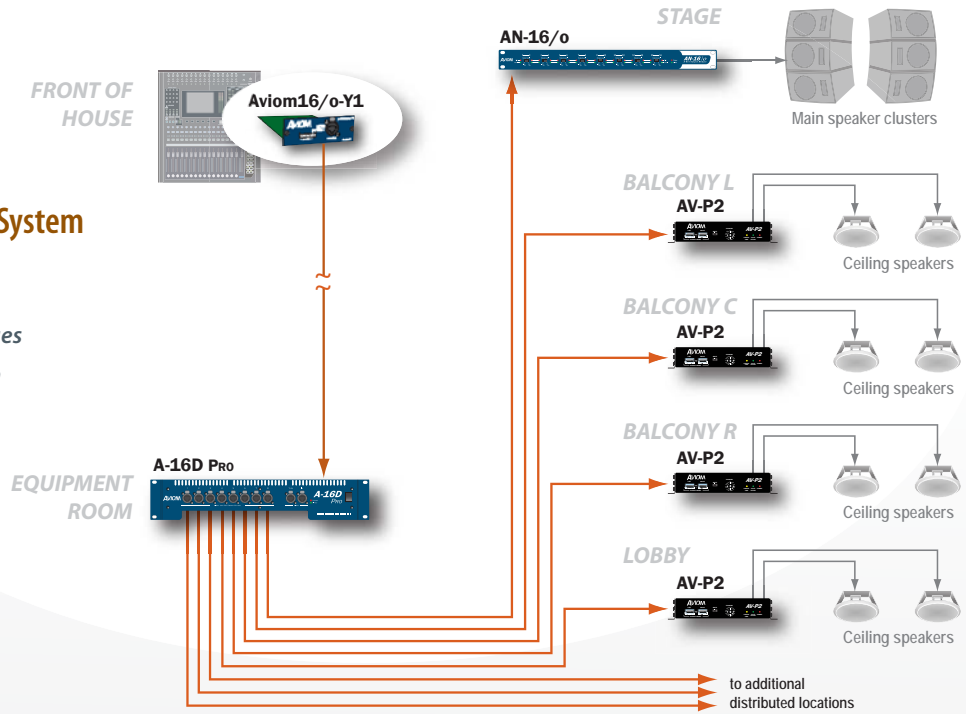
-Chuck Mitchell
Consulting Audio Director



Audio Distribution System

Ideal for...

- Performance Venues
- Houses of Worship
- Schools



32x16 Digital Snake with Personal Mixing

Ideal for...

- Performance Venues
- Houses of Worship
- Portable Churches
- Live Sound
- Schools

AVIOM pioneered personal mixing with its Pro16® personal mixing system and continues to break new ground with the revolutionary Pro64® Series of audio networking products. With tens of thousands of products in the field today, Aviom has set the standard for cost-effective, scalable digital solutions.

All Aviom systems harness the power of A-Net®, Aviom's innovative high speed digital audio transport technology that simplifies system design while enhancing control and flexibility. All Aviom products are designed, tested, and manufactured in the USA.



Photo credits: Ray Legnini, Sean Smith, Darren Takegami, Michael Stusiak, and Jay Ballinger.

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SERIES**



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