SOUND QUALITY

AUDIO CATALOG

KRAMER

THE KRAMER PROMISE

Dr. Joseph Kramer founded Kramer Electronics with the goal of bringing new and innovative video products to the pro AV market. As the company grew and achieved industry recognition, the need to complement its video offering with high-quality audio products became evident.

> *Quality is not an act. It is a habit.* *Aristotle*

With offices all over the world and millions of products in use worldwide, Kramer Electronics remains dedicated to innovation, personal service and high quality. Kramer audio solutions live up to the same high standards of excellence that has made Kramer the respected brand it is today.

Kramer audio products are built on a strong foundation of the company's vast experience in developing broadcast-grade products in a variety of industries.

Kramer offers five main categories of high-quality products (for Houses of Worship, Hospitality, Education, Conferences, Live Events, and more):

- High-end amplifiers: Market leader in performance
- In-ceiling, on-wall and in-wall speaker families: High clarity and wide coverage
- Wall-to-wall audio solutions: DAs, audio converters, audio mixers, and more
- High-end cables: Complementary products for end-to-end audio and video solutions
- Digital Sound Processors (DSP)

We hope you enjoy this edition of the Kramer audio catalog, a truly comprehensive look at our pro audio products.

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DSP

DIGITAL SOUND PROCESSING

Avant-Garde Audio

With a design mandate of nothing less than game-changing, Kramer Audio has always been about exceeding expectations.

Kramer Audio's award-winning KN-DSP100 was first-to-market with the ability to process Dante signals and introduced the Pro AV world to unparalleled distribution potential.

The AFM-20DSP raises the bar again by ending frustrating I/O limitations with infinitely malleable flexible port configurations. Not to be outdone by its big brothers, the DSP-1 takes the power of industry leading DSP and packs it into a tough as nails compact package.

Fixed & Open Architecture

Auto Feedback Suppression

8 Channels of AEC

20 Interchangeable Analog Ports

HDMI Embedder /
De-embedder

4x4 Dante™ Support

Built-in Hi-Z
& Lo-Z 120W Power Amp

DIGITAL SOUND PROCESSORS

AFM-20DSP

Flexible Audio Matrix (20 ports plus 4x4 Dante I/O)

The AFM-20DSP is a 20-port flexible audio matrix with additional Dante™ and HDMI™ I/O. Powerful DSP features include AEC, auto feedback suppression, compressor, gate, limiter, parametric and graphic EQs, grouping options, and more. Use any of the 20 flexi-ports for line level input, line level output or mic level input with optional phantom power.

- 20 balanced mono ports
- Fixed & open architecture
- 8 channels of AEC
- Auto feedback suppression
- 4x4 Dante I/O
- 1 HDMI in/out 4K60 4:2:0
- Audio embedding/de-embedding
- Built-in 120W power amplifier
- Processing by Xilica,™ class-leading networked and standalone DSP provider.

AFM-20

Flexible Audio Matrix (20 ports plus 4x4 Dante I/O)

The AFM-20 is a 20-port flexible audio matrix with additional Dante™ and HDMI™ I/O. Use any of the 20 flexi-ports for line level input, line level output or mic level input with optional phantom power. Individual per-port volume control and mixing available via web interface.

- Ideal for broadcast environments
- 20 balanced mono ports
- 4x4 Dante I/O
- 1 HDMI in/out 4K60 4:2:0
- Audio embedding/de-embedding
- Built-in 120W power amplifier

DIGITAL SOUND PROCESSORS

KN-DSP100

Kramer Network DSP over IP

KN-DSP100 is a 19” 1U Kramer Network server with DSP functionality for large-scale audio deployments. It provides DSP over IP and enables simultaneous processing of 64 input channels and distribution to over 1000 outputs. The unit is fully compatible with any Dante™ audio signal and provides auto-detection of all Kramer devices and their functionality. KN-DSP100 seamlessly integrates with all standard IT infrastructures.

- Over 1,000 inputs & outputs using Dante™
- 64 processed inputs
- Powered by Kramer Network
- Processes by Waves Audio™, the world’s leading developer of audio DSP solutions

DIGITAL SOUND PROCESSORS

DSP-1

Mini Digital Sound Processor

DSP-1 is a mini digital sound processor that enables the control of volume, volume gain, 3 band parametric EQ, HPF (high-pass filters) and 2-input line-level mixing via IP. DSP-1 features flexible control options and enables creating multiple presets for simple and fast audio configuration. DSP-1 is a highly cost effective digital sound processing solution for meeting rooms, huddle spaces, auditoriums, classrooms, and more.

- 2-input mixing with master volume
- 3-band parametric equalizer
- Hi-pass filter
- Line-level amplifier for audio gain and attenuation

Simplify Your Audio Installations

ConfigurAudio™

Online Audio Configurator Tool

Sifting through and matching between multiple products for your audio installation can be daunting. Kramer ConfigurAudio is an intuitive online configurator tool that helps you plan your audio installation based on the specific needs and conditions of your space. ConfigurAudio helps you choose the right speakers, distribution and/or power amplifiers, and cables for your audio installation.

Not sure what speakers to install? Visit **KramerAV.com/ConfigurAudio**

High-Performance

AMPLIFIERS

Kramer Broadcast-Grade Quality for Audio

Kramer amplifiers embody our unequivocal commitment to the highest quality of sound. Kramer's vast experience and expertise in the broadcast industry goes into every single one of our amplifiers. Whether for entertainment, education, conferences, or outdoor public areas, our Hi-Z (70V/100V) or Lo-Z (4Ω/8Ω) amplifiers are always on.

Kramer amplifiers support presentation room and other multimedia applications for quick, local audio amplification and more complex full-site installations.

We carry 20 different small (20W), medium (80W) and large (200W) amplifiers; all offer high-efficiency, Class D and fan-less operation.

PA-120Net

Power Amplifier with Dante Decoder (1x120W @70V/100V & 2x60W @8Ω)

PA-120Net is a high-performance Hi-Z (70V/100V) and Lo-Z (4/8Ω) controllable power amplifier featuring balanced input, Dante™ input, line level outputs and built-in DSP. This versatile amplifier is suitable for a vast range of applications, from medium to large-sized rooms.

- Single channel of 120W into a 70V/100V line
- 2 channels of 60W into 4/8Ω
- Dante network input
- Controllable via RS-232 and IP
- Auto-standby

PA-240Net

Power Amplifier with Dante Decoder (1x240W @70V/100V & 2x120W @8Ω)

PA-240Net is a high-performance Hi-Z (70V/100V) and Lo-Z (4/8Ω) controllable power amplifier featuring balanced input, Dante™ input, line level outputs and built-in DSP. This powerful amplifier is suitable for large-scale applications.

- Single channel of 120W into a 70V/100V line
- 2 channels of 60W into 4/8Ω
- Dante network input
- Controllable via RS-232 and IP
- Auto-standby

AMPLIFIERS
Hi-Z

PA-120Z

Power Amplifier (1x120W @70V/100V & 2x60W @8Ω)

PA-120Z is a high-performance Hi-Z (70V/100V) and Lo-Z (4/8Ω) controllable power amplifier featuring balanced and unbalanced inputs and line-level output. This versatile amplifier is suitable for a vast range of applications, from medium to large-sized rooms.

- Single channel of 120W into a 70V/100V line
- 2 channels of 60W into 4/8Ω
- Controllable via RS-232 and IP
- Auto-standby

PA-240Z

Power Amplifier (1x240W @70V/100V & 2x120W @8Ω)

PA-240Z is a high-performance Hi-Z (70V/100V) and Lo-Z (4/8Ω) controllable power amplifier featuring balanced and unbalanced inputs and line-level output. This powerful amplifier is suitable for large-scale applications.

- Single channel of 240W into a 70V/100V line
- 2 channels of 120W into 4/8Ω
- Controllable via RS-232 and IP
- Auto standby

AMPLIFIERS
Hi-Z

PA-50HZ

Power Amplifier (50W into 70V/100V)

PA-50HZ is a compact Hi-Z (70V/100V) power amplifier with line-level output. Ideal for small to medium-size meeting spaces and classrooms.

- Single channel of 50W into a 70V/100V line
- Balanced, mono line-level output

920

Power Amplifier (200W into 70V/100V)

The 920 is a high-performance 70V/100V power amplifier for balanced, unbalanced stereo and microphone inputs.

- Single channel of 200W into a 70V/100V line
- Balanced, unbalanced and microphone inputs
- Auto standby

AMPLIFIERS

Lo-Z Small

900N

Stereo Power Amplifier (10 Watts per Channel)

The 900N is a high-performance power amplifier for balanced or unbalanced stereo audio signals. Either input can deliver a speaker output of 10 watts RMS power per channel into a 4Ω load.

- High efficiency - class D operation
- S/N ratio - 55dB
- Controls - volume knob, on LED
- Special note - before turning on the 900N, make sure the volume is turned down to the minimum

900xl

Stereo Power Amplifier (10 Watts per Channel)

The 900xl is a high-performance power amplifier for line level stereo audio signals. The unit accepts unbalanced audio signals on either of two RCA or 3.5mm connectors and delivers a speaker output of 10 watts RMS per channel into a 4Ω load.

- High efficiency - class D operation
- S/N ratio - 60dB
- Control - volume & input selection from front panel & RS-232

903

4x1 Personal Stereo Amplifier & Switcher (10 Watts per Channel)

The 903 is a high-performance integrated personal amplifier for unbalanced stereo audio signals. It allows selection between four inputs and delivers a speaker output of 10 watts RMS power per channel into a 4Ω load.

- High efficiency - class D operation
- S/N ratio - 77dB (unweighted)
- Control - volume, bass, mid, treble, balance, and loudness

AMPLIFIERS

Lo-Z Medium

907

Stereo Power Amplifier (40 Watts per Channel)

The 907 is a high-performance power amplifier for line-level stereo audio signals. It accepts a balanced stereo audio signal on a terminal block connector and delivers 40 watts per channel into an 8Ω load.

- High efficiency - class D operation
- Controls - volume control knob & mute button
- Gain control DIP-switch
- Mute and on indicator LEDs

907xl

Stereo Power Amplifier/Mixer (40 Watts per Channel)

The 907xl is a high-performance power amplifier for line-level stereo audio signals. It accepts a balanced stereo audio signal on a terminal block connector and an unbalanced stereo signal on RCA connectors. It delivers 40 watts per channel into an 8Ω load.

- High efficiency - class D operation
- Controls - 1 volume control knob for each input & mute button
- Gain control DIP-switches
- Mute and on indicator LEDs

AMPLIFIERS

Lo-Z Medium

908

Stereo Amplifier & Switcher (40 Watts per Channel)

The 908 is a high-performance audio amplifier for line-level stereo audio signals. It accepts either a balanced or an unbalanced stereo audio signal and delivers a speaker output of 40 watts RMS per channel into 8Ω loads.

- High efficiency - class D operation
- Controls - control knob to adjust volume, bass, middle, treble and balance. Mute and loudness buttons, plus a 10V control port for adjusting the audio gain

AMPLIFIERS

Lo-Z Large

914

Stereo Power Amplifier (100 Watts per Channel)

The Kramer 914 is a high-performance 2x100W power amplifier that accepts a balanced stereo audio input on a 5-pin terminal block and converts the signal into a differential stereo audio output for speakers on a 4-pin terminal block.

- Stereo mode - 2x100W @4Ω
- BTL mode - 1x200W @8Ω
- ENERGY STAR® compliant
- Class D amplifier
- Input level sensitivity adjustment

905xl

Stereo Power Amplifier (110 Watts per Channel)

The 905xl is a high-performance remote-controllable power amplifier.

- Stereo mode - 2 x 110W @4Ω
- Selectable balanced and unbalanced inputs
- Remote control (RS-232) - volume, EQ and input selection
- Class D amplifier

Sound Smart

SPEAKERS

A Family for Any Audio Application

Kramer's four speaker families offer infinite possibilities for any pro audio application.

Galil: Classic fits-all speakers, affordable range of open and closed in-ceiling round speakers, full line of on-wall speakers – designed for transportation centers, hotels, educational facilities, boardrooms, shopping centers, and other large venues.

Yarden: Performance-based line, featuring stereo/mono speakers, music/speech switch-to-enhance intelligibility, and Kevlar(R) woofers – designed for executive boardrooms, high-end hotels, banks, embassies, and music halls.

Tavor: All-in-one solutions where time and space-saving installations are important – includes ceiling-tile speakers, on-wall and subwoofers.

Dolev: High-end bi-amplified studio-grade speakers that deliver clear and balanced flat response even at high volume – designed for control rooms, editing studios, sports bars, music clubs, high-end facilities, and home entertainment.

SPEAKERS

Galil In-Ceiling

Galil 2-C, Galil 4-C, Galil 6-C, Galil 8-C

2/4/6/8-Inch, 2-Way Closed-Back Ceiling Speakers

Galil C two-way closed-back (UL) speakers are designed for mounting in the ceiling. These speakers feature a multi-tap power transformer for selecting direct 8Ω (bypassing the transformer) or 70V/100V power settings suitable for array installations. They come in 2.5-inch, 4-inch, 6.5-inch and 8-inch variations.

- 2-way, closed-back, in-ceiling speakers
- 2.5", 4", 6.5" and 8" polypropylene woofers
- Power handling from 10W to 180W
- 70V/100V and 8Ω inputs
- Galil 2-C is **EN 54-24** certified

Galil 4-CO, Galil 6-CO, Galil 8-CO

4/6/8-Inch, 2-Way Open-Back Ceiling Speakers

Galil CO open-back ceiling speakers feature a multi-tap power transformer for selecting 8Ω (bypassing the transformer) or 70V/100V power settings, suitable for array installations. They come in 4-inch, 6.5-inch and 8-inch variations.

- 2-way, open-back, In-ceiling speakers
- 4”, 6.5” and 8” polypropylene woofers
- Power handling from 30W to 180W
- 70V/100V and 8Ω inputs

Galil 4-O, Galil 5-O, Galil 6-O

4/5/6-Inch, 2-Way On-Wall Speakers

Galil O on-wall speakers feature a multi-tap power transformer for selecting 8Ω (bypassing the transformer) or 70V/100V power settings for array installations. Available in 4-inch, 5.25–inch and 6.5-inch variations.

- 2-way, on-wall speakers
- 4”, 5.25” and 6.5” polypropylene woofers
- Power handling from 20W to 110W
- 70V/100V and 8Ω inputs

SPEAKERS

Galil In-Wall

Galil 6-I

6.5-Inch, 2-Way Open-Back Rectangular In-Wall Speakers

Galil 6-I is an in-wall speaker designed for background music in conference rooms, boardrooms, classrooms, hotels, and restaurants. Available as a 6.5 inch model.

- 2-way, in-wall speakers
- 6.5” polypropylene woofer
- 80W power handling
- 8Ω input

Galil 6-AW

6.5-Inch, 2-Way On-Wall Outdoor Speakers

Galil 6-AW is an on-wall IP 66 certified all-weather speaker suitable for outdoor installations in restaurants, hotels, patios, gardens or indoor use. Available in white or black.

- 2-way, on-wall speakers
- 6.5” polypropylene woofer
- 40W RMS, 110W continuous program power handling
- 70V/100V and 8Ω inputs

SPEAKERS

Yarden In-Ceiling

Yarden 4-C, Yarden 6-C, Yarden 8-C

4/6/8-Inch, 2-Way Closed-Back Ceiling Speakers

Yarden C in-ceiling (UL) speakers offer high-performance and high-quality sound for professional gatherings or leisure ambience.
These speakers feature a Kevlar(R) woofer, 2nd-level crossover and a multi-tap power transformer for selecting 8Ω (bypassing the transformer) or 70V/100V power settings suitable for array installations. They are available in 4-inch, 6.5-inch and 8-inch variations.

- 2-way, closed-back, in-ceiling speakers
- 4”, 6.5” and 8” Kevlar(R) woofers
- Power handling from 30W to 180W
- 70V/100V and 8Ω inputs

Yarden 4-O, Yarden 5-O, Yarden 6-O

4/5/6-Inch, 2-Way On-Wall Speakers

Yarden O on-wall speakers offer high-performance and high-quality sound for professional gatherings or leisure ambience.
The speakers feature a Kevlar(R) woofer, 2nd-level crossover and multi-tap power transformer for selecting 8Ω (bypassing the transformer) or 70V/100V power settings ideal for array installations.

- 2-way, on-wall speakers
- 4”, 5.25” and 6.5” Kevlar(R) woofers
- Power handling from 20W to 220W
- 70V/100V and 8Ω inputs

SPEAKERS
Yarden

Yarden 8-T

8-Inch, High-Performance, Ceiling Tile Stereo Speaker

The Yarden 8-T high-Performance ceiling tile stereo speaker features a Kevlar(R) woofer, four pivoting titanium tweeters, and complete K-overage ESD™ (Equal Sound Dispersion) design for almost 180 degrees of sound dispersion.

- 8" Kevlar(R) woofer
- Four 1" pivoting titanium tweeters
- 2 x 40W power handling
- Music and speech modes
- Stereo and mono modes

Yarden 6-ID, Yarden 6-OD

6.5-Inch, High-Performance, In-Wall Stereo Speaker

The Yarden 6-ID and Yarden 6-OD are in-wall and on-wall stereo speakers. They feature a Kevlar(R) woofer, dual pivoting titanium tweeters, 2nd- level crossover, and multi-tap power transformer for selecting 8Ω or 70V/100V power settings that are suitable for array installations.

- 6.5" Kevlar(R) woofers
- Two 1" pivoting titanium tweeters
- Music and speech modes (6-ID)
- Stereo and mono modes
- 70V/100V and 8Ω inputs

Yarden VT-1, Yarden VT-2

Vibrating Transducer Speaker

The Yarden VT-1 and VT-2 are revolutionary vibrating transducer speakers that transform solid resonant surfaces into powerful, high-quality speakers. Yarden VT-2 includes a selectable 70V/100V line transformer for Hi or Lo-Z applications.

- Compact vibrating transducer speakers
- Simple under-table, on-wall, or in-wall installation
- 10W @8Ω power rating
- 70V/100V and 8Ω inputs

Tavor 5-O, Tavor 6-O

5.25/6.5-Inch, On-Wall 2-Way Powered Speakers

The Tavor 5-O / Tavor 6-O is a pair of 5.25-inch / 6.5 inch powered two-way speakers designed for indoor wall mounting.
The active speaker accepts a line-level stereo input, amplifies it using a built-in amplifier and outputs a speaker signal to the passive speaker.

Tavor 5-O

- Active loudspeaker - stereo 2x30W RMS, 2x80W continuous program amplifier and volume control
- Audio level controls - volume, treble and bass
- Magnetically shielded
- Enhanced bass reflex

Tavor 6-O

- Active loudspeaker - stereo 2x50W RMS, 2x140W continuous program built-in power amplifier
- Inputs - 1 unbalanced RCA, 1 unbalanced 3.5mm mini jack, 1 balanced on terminal block
- Audio level controls - volume, treble and bass
- Magnetically shielded

Tavor 8-T

8-Inch, High-Performance, Powered Ceiling Tile Speaker

The Tavor 8-T high performance powered ceiling tile speaker features a 40 watt built-in class D power amplifier, three inputs, Kevlar(R) woofer, four pivoting titanium tweeters, and complete K-overage ESD™ (Equal Sound Dispersion) design for almost 180 degrees of sound dispersion.

- Type - 2-way ceiling tile speaker
- Built-in power amplifier - 40W RMS, 110W continuous program
- Woofer - 8" Kevlar(R) cone
- Tweeter - four pivoting 1" titanium domes
- 3 inputs with individual volume control
- Master volume control

Tavor 8-Sub

8-Inch Powered Subwoofer

The Tavor 8-Sub is a powered subwoofer that can be mounted on the wall or placed on the floor. Designed for use in home theater systems, houses of worship and professional and entertainment venues, the subwoofer reproduces low range audio frequencies and includes auto standby.

- 8" aluminum woofer
- 50W built-in power amplifier
- Frequency response: 30Hz to 600Hz @−10dB
- Inputs - 1 line level RCA, 1 LFE, 2 high-level inputs on binding posts
- Adjustable crossover frequency
- Reverse phase switch

Dolev 5, Dolev 6, Dolev 8, Dolev Mount

Bi-Amplified Studio-Grade Speakers

The Dolev line offers two-way, bi-amplified studio-grade speakers that provide superior clarity for high-end applications or other situations that require precise, accurate and detailed sound. Typical installations include home theater, sports bars and premium facilities for professional presentations and boardrooms. Dolev offers three different models: 5.25” with a 50W amplifier, 6.5” with a 75W amplifier and 8” with a 100W amplifier.

- 5.25”, 6.5” and 8” fiberglass woofers
- 1” neodymium dome tweeters
- 50W, 75W and 100W output power
- Frequency response from 43Hz to 20kHz
- XLR, RCA and TRS inputs
- Adjustable high-frequency level

Audio Excellence

WALL-TO-WALL AUDIO SOLUTIONS

Our Top Sellers

This section of the catalog features some of our most popular Kramer audio products – stand-alone solutions or complementary modules for a variety of audio and video applications. The following products offer excellent audio performance and easy installation for use in professional video broadcast studios, recording studios, live events, and more.

AUDIO SOLUTIONS

FC-101Net

2-Channel Dante Decoder & PoE Acceptor

FC-101Net is a compact 2-channel Dante™ decoder with 2 balanced mono audio outputs. It enables connecting non-Dante devices, such as amplifiers and powered speakers, to a Dante network and enables volume control. FC-101Net is powered over Ethernet from any standard PoE providing network switch and can be conveniently mounted on any surface.

- Compact form factor
- Dante network interface
- PoE acceptor
- Inputs - 2 Dante channels on an RJ45 connector
- Outputs - 2 balanced mono audio on 3-pin terminal blocks
- Output volume control

FC-102Net

2-Channel Dante Encoder & PoE Acceptor

FC-102Net is a compact 2-channel analog to Dante™ encoder with 2 balanced mono audio inputs that easily toggle between line level input or mic level input with optional phantom power. The device is powered over Ethernet from any standard PoE providing network switch and can be conveniently mounted on any surface.

- Compact form factor
- Dante network output
- AES67 and Dante Domain Manager ready
- PoE acceptor
- Inputs - 2 balanced mono audio on 3-pin terminal blocks
- Outputs - 2 Dante channels on an RJ45 connector
- Input volume control

AUDIO SOLUTIONS

FC-404Net

4X4 Dante Interface

The Kramer FC-404Net is a four-input/four-output Dante™ interface with line or microphone level inputs and line level outputs. It connects analog inputs to a digital Dante network or outputs four channels from a Dante network.

- Dante network interface
- Inputs - 4 balanced mono audio on terminal blocks
- Outputs - 4 balanced mono audio on terminal blocks
- Volume settings - independent input gain/output volume settings per channel

FC-46H2

4K HDR HDMI Audio De-Embedder

FC-46H2 is a 4K HDR HDMI™ audio de-embedder. The unit can de-embed audio from the HDMI input or from the HDMI output Audio Return Channel (ARC) to S/PDIF, TOSLINK® and analog audio outputs simultaneously.

- Max. resolution - 4K@60Hz (4:4:4)
- HDMI 2.0, HDCP 2.2 compliant
- Supports Deep Color, HDR, multi-channel audio, and CEC
- Audio boost with 6dB analog audio gain
- Remote mute
- Intelligent EDID management

AUDIO SOLUTIONS

VS-88A

8x8 Balanced Stereo Audio Matrix Switcher

The VS-88A is a high-performance matrix switcher for balanced stereo audio signals. It can route any or all inputs to any or all outputs simultaneously.

- S/N Ratio — 84dB
- Control — RS–232 & RS–485
- Size — Standard 19" (1U). Rack "ears" included.
- Audio — B

VA-256xl

Audio Delay for Balanced Stereo Audio

The VA-256xl is a high-performance audio delay for balanced stereo audio signals. It synchronizes the audio and video signals when they are out of sync. This often happens in systems that perform heavy digital video processing, such as with scalers.

- S/N ratio - 90dB (unweighted)
- Resolution - 24-bit at 48kHz
- Wide range of programmable delay - 1 millisecond to 5.4 seconds in 1 millisecond increments

VM-1110xl

1:10 Balanced Mono Audio Distribution Amplifier

The VM-1110xl is a high-performance distribution amplifier for balanced mono audio signals on XLR connectors. It can also be configured as a 1:5 distribution amplifier for stereo balanced audio signals.

- Level (gain) controls
- Dual mode - configure as 1:10 (mono) or 1:5 (stereo) DA
- S/N ratio - 89.3dB

PT-102AN

1:2 Stereo Audio Distribution Amplifier

The PT-102AN is a high-performance audio distribution amplifier for unbalanced stereo signals. The unit takes one stereo input and distributes the signal to two identical stereo outputs.

- Level (gain) controls
- S/N ratio - 85dB
- Pico TOOLS™: mount 4 units side-by-side in a 1U rack space with the optional RK-4PT rack adapter

AUDIO SOLUTIONS

6410N

Digital Audio to Balanced Stereo Audio Format Converter

The 6410N is a high-performance format converter for digital audio signals. The unit converts AES/EBU, AES-3id, S/PDIF or TOSLINK® optical digital audio signals to two channels of balanced audio and a headphone output.

- S/N ratio - 88dB
- Standards - AES/EBU, AES-3id, S/PDIF, TOSLINK® optical
- Sampling - 32, 44.1, 48, & 96kHz
- Standard selector - professional or consumer
- Automatic reclocking & equalization

VM-3AN

1:3 Balanced Stereo Audio Distribution Amplifier

The VM-3AN is a high-performance distribution amplifier for balanced stereo audio signals. The unit takes one stereo input and distributes the signal to three identical outputs.

- S/N ratio - 90dB
- L & R level (gain) controls
- TOOLS: mount 3 units side-by-side in a 1U rack space with the optional RK-3T rack adapter

102MX

2-Channel Stereo Audio Mixer

The 102MX is a high-performance 2-channel stereo audio mixer for line level and mic level audio signals. It mixes one line level input with either a microphone or a second line level input and produces a mixed audio output signal.

- S/N ratio - 69dB
- Level (gain) control - line 1 (or microphone), line 2, and master level
- Selectable microphone input - dynamic or condenser microphone with bias voltage

How It All Connects

CABLES

The Final Touch of Excellence

Kramer's award-winning cables are one of our top-selling product categories – and for good reason. We go to great lengths to ensure that our cables exceed the highest quality market standards. At InfoComm 2014, a Kramer cable won the independent 4K HDBaseT category cable challenge conducted by Redband Radio and AVNation. Kramer cables come in a variety of lengths to fit any specific commercial or residential AV system requirement.

CABLES

C-A63M/XLM

6.3mm Male to 3–pin XLR Male Cable

Kramer's C-A63M/XLM is a shielded twisted pair pro audio cables with a 6.3mm (1/4" TRS) male plug at one end and a XLR male connector at the other end. These cables are engineered to provide all the clarity and power you need and built for years of rugged use.

- Quality construction - 26AWG tinned copper covered by a spiral tinned copper shield to protect signal quality with superior coverage
- PVC jacket - heavy-duty PVC jacket covered with cotton braid for a nice feel, terminated with high-quality assembly type connectors

C-XLQM/XLQF

XLR Quad Cable

Kramer’s XLQ cables are quad style professional-grade mic or line level audio cables. 4-core star quad cables with mutually offsetting twisting technology can reduce induction noise levels to 10% of that in regular two-pair balanced microphone cable.

- Quality construction - the four-conductor quad style arrangement cancels electromagnetically induced noise from fluorescent lighting ballasts and AC power transformers
- Super flexibility - large numbers of thin bare copper wire strands in both the conductors and shield produce a highly flexible cable

C-A35M/A35M

3.5mm Stereo Audio Cable

Kramer's A35M series mini audio cables are constructed from high-quality shielded pair style cable terminated with molded male 3.5mm stereo connectors on both ends.

- Quality construction - constructed from flexible, high-quality 28AWG cable for transparent performance with line level audio signals
- Numerous applications - ideal for use with typical computer sound cards, projectors, portable music players, etc. Also great for serial or IR remote control that often uses shielded pair wire for transmission of transmit, receive, and ground signals

C-A35M/2RAM, C-A35F/2RAM

3.5mm to 2 RCA Breakout Cable

Kramer's A35M/2RAM and A35F/2RAM series cables are simple adapters that have a stereo 3.5mm connector at one end, and two male RCA connectors at the other. They provide passive conversion between 3.5mm and dual RCA connectors, most often adapting a PC sound card or MP3 player to the audio inputs of a sound system or display device.

- Quality construction - dual molded male RCAs on one end and molded 3.5mm on the other
- High-quality connectors - RCA connectors are color coded red, white to match audio connectors on typical equipment
- Varied selection of lengths - available in versions of 0.3 to 15.2m (1, 6, 10, 15, 25, 35 and 50ft)

CABLES

BC-1T

Mono Audio/Control Bulk Cable

Kramer's BC-1T is a high-quality shielded pair cable designed for routing balanced mono or unbalanced stereo mic or line level audio signals in commercial or residential AV systems.

BC-2T

Stereo Audio/Control Bulk Cable

Kramer's BC-2T is a high-quality, dual shielded pair cable designed for routing balanced stereo mic or line level audio signals in commercial or residential AV systems.

BC-2S

Speaker Bulk Cable

Kramer's BC-2S is a high-quality twisted pair cable designed for connecting speakers and amplifiers in commercial or residential AV systems.

SPEAKER SPECIFICATIONS

SPEAKERS

Product	Description	Woofer	Tweeter	Power Handling	Sensitivity	Frequency Response	Max. SPL	Impedance	Package
Galil 2-C	Closed-Back In-Ceiling	2.5" PP	-	10W RMS, 30W CP	83dB	90Hz - 20kHz	94.8 dB	8Ω/70V/100V	18
Galil 4-C	Closed-Back In-Ceiling	4" PP	1/2" Mylar	30W RMS, 80W CP	85dB	85Hz - 20kHz	97dB	8Ω/70V/100V	Pair
Galil 6-C	Closed-Back In-Ceiling	6.5" PP	1" Mylar	30W RMS, 80W CP	87dB	80Hz - 20kHz	103.7dB	8Ω/70V/100V	Pair
Galil 8-C	Closed-Back In-Ceiling	8" PP	1" Silk	64W RMS, 180W CP	89dB	65Hz - 20kHz	107dB	8Ω/70V/100V	Pair
Galil 4-CO	Open-Back In-Ceiling	4" PP	1/2" Mylar	15W RMS, 40W CP	83dB	60Hz - 20kHz	98dB	8Ω/70V/100V	Pair
Galil 6-CO	Open-Back In-Ceiling	6.5" PP	1/2" Mylar	30W RMS, 80W CP	87dB	60Hz - 20kHz	105dB	8Ω/70V/100V	Pair
Galil 8-CO	Open-Back In-Ceiling	8" PP	1" Silk	50W RMS, 140W CP	88.5dB	47Hz - 20kHz	109dB	8Ω/70V/100V	Pair
Galil 4-O	On-Wall	4" PP	1/2" Mylar	20W RMS, 60W CP	89dB	90Hz - 16kHz	98dB	8Ω/70V/100V	Pair
Galil 5-O	On-Wall	5.25" PP	1/2" Mylar	30W RMS, 80W CP	89dB	80Hz - 20kHz	106dB	8Ω/70V/100V	Pair
Galil 6-O	On-Wall	6.5" PP	1" Silk	40W RMS, 110W CP	87dB	65Hz - 20kHz	105dB	8Ω/70V/100V	Pair
Galil 6-I	In-Wall	6.5" PP	1" Silk	80W RMS, 220W CP	87dB	50Hz - 20kHz	112dB	8Ω	Pair
Galil 6-AW	On-Wall All–Weather	6.5” PP	1” Silk	30W RMS, 80W CP	85dB	80Hz - 20kHz	99dB	8Ω/70V/100V	Pair

SPEAKER SPECIFICATIONS

SPEAKERS

Product	Description	Woofer	Tweeter	Power Handling	Sensitivity	Frequency Response	Max. SPL	Impedance	Package
Yarden 6-O	On-Wall	6.5" Kevlar	1" Titanium	80W RMS, 220W CP	86dB	65Hz - 20kHz	107dB	8Ω/70V/100V	Pair
Yarden 8-T	Ceiling Tile	8" Kevlar	4 x 1" Titanium	40W RMS, 110W CP	87dB	65Hz - 20kHz	105dB	8Ω/70V/100V	Single
Yarden IH-1	Hidden In-Wall	13.7"x10.2"PP	-	40W RMS, 90W CP	83dB	120Hz - 20kHz	99dB	8Ω/70V/100V	Pair
Yarden VT-2	Vibrating Transducer	4.6"x3.1"PP	-	10W RMS, 30W CP	80dB	20Hz - 20kHz	93dB	8Ω/70V/100V	Single
Tavor 5-O	Powered On-Wall	5.25" PP	1/2" Mylar	2 x 30W RMS, 80W CP	85dB	75Hz - 20kHz	110dB	4Ω	Pair
Tavor 6-O	Powered On-Wall	6.5" PP	1" Silk	2 x 50W RMS, 140W CP	85dB	45Hz - 20kHz	108dB	4Ω	Pair
Tavor 8-T	Powered Ceiling Tile	8" Kevlar	4 x 1" Titanium	40W RMS, 110W CP	87dB	65Hz - 20kHz	105dB	8Ω	Single
Tavor 8-Sub	Powered Floor Standing	8" Aluminium	-	50W RMS, 140W CP	95dB	30Hz - 300Hz	114dB	4Ω	Single
Dolev 5	Bookshelf	5.25" Fiberglass	1" Neodymium	50W RMS - Woofer 30W, Tweeter 30W	88dB	55Hz - 20kHz @±3dB	109dB	4Ω	Single
Dolev 6	Bookshelf	6.5" Fiberglass	1" Neodymium	75W RMS - Woofer 45W, Tweeter 45W	88dB	47Hz - 20kHz @±3dB	113dB	4Ω	Single
Dolev 8	Bookshelf	8" Fiberglass	1" Neodymium	100W RMS - Woofer 70W, Tweeter 70W	90dB	43Hz - 20kHz @±3dB	119dB	4Ω	Single

LEGENED: PP – Polypropylene | CP – Continues Program | Sensitivity: dBSPL 1W @ 1m | Frequency Response: @-10dB | Max. SPL: dBSPL @ 1m

AMPLIFIER SPECIFICATIONS

AMPLIFIERS

Product	Description	Size	Power Rating	Lo-Z	Hi-Z	Tone Control / Built-in DSP	Dante™	Remote Control			Auto Standby / ENERGY STAR®
								10KΩ	RS-232	IP	
PA-120Net	Amplifier	Desktop	1x120W@70V/100V + 2x60W@8Ω	+	+	+	+		+	+	+
PA-240Net	Amplifier	Desktop	1x240W@70V/100V + 2x120W@8Ω	+	+	+	+		+	+	+
PA-120Z	Amplifier	Desktop	1x120W@70V/100V + 2x60W@8Ω	+	+	+			+	+	+
PA-240Z	Amplifier	Desktop	1x240W@70V/100V + 2x120W@8Ω	+	+	+			+	+	+
PA-50HZ	Amplifier	MultiTOOLS™	1x50W@70V/100V		+						
920	Amplifier	19"	1x200W@70V/100V		+						+
900N	Amplifier	TOOLS™	2x10W@4Ω	+							
900xl	Amplifier	TOOLS™	2x10W@4Ω	+					+		
907	Amplifier	MultiTOOLS™	2x40W@8Ω	+							
907xl	Mixer Amplifier	MultiTOOLS™	2x40W@8Ω	+							
908	Amplifier	MegaTOOLS™	2x40W@8Ω	+		+		+	+	+	
914	Amplifier	Desktop	2x100W@4Ω	+				+			ENERGY STAR®
905xl	Amplifier	19"	2x110W@4Ω	+					+		

KRAMER DEVICE SIZES

PicoTOOLS™

MultiTOOLS™
(Standard 1/4 19")

TOOLS™

MegaTOOLS™

Desktop
(Standard 1/2 19")

Standard 19"

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