Your path to great sound.
How do you guarantee superior performance?
You work at it. Develop a great concept, choose the best tools, build the product correctly from premium materials—these are the secrets to Dayton Audio’s enviable stature in a very competitive market.

Dayton Audio loudspeaker drivers compete with the world’s finest. Manufacturers and consumers who use our speakers know this. Our plate amplifiers suit custom in-cabinet installation, while other models offer stand-alone elegance. DATS and OmniMic test & measurement systems are embraced by speaker hobbyists, pro audio contractors, and factory engineers.

Our proven products combine real-world design excellence with high-tech manufacturing. Everything that carries Dayton Audio’s label meets stringent quality standards and is backed by industry-leading warranties and support.

HISTORY

For over two decades, Dayton Audio has specialized in audio components, particularly the field of loudspeaker design and production. While most of the engineering and development work is performed in the US, Dayton Audio goods are manufactured in North America, Europe, and Asia. This synchronicity offers benefits of quality, logistics, and performance without compromise. Throughout the years, Dayton Audio products have received worldwide acclaim and are often compared favorably to similar items costing far more.

MISSION/VALUE

- Gain a thorough understanding of our partners’ requirements
- Design with intelligence and passion
- Use strategic planning for effective management and to exploit all possible opportunities for customers’ advantage
- Employ environmentally-conscious methods of manufacturing, packaging, and freight

Innovation. Value. Quality. Aren’t these what you want in an audio product? There’s no reason to settle for anything less. Dayton Audio’s mission is to calibrate a fine balance between technology and art in order to exceed our customers’ expectations. Competitive costs and after-sale support also feature heavily in Dayton Audio’s vision of excellence. Our engineering team collaborates with OEM/ODM partners in order to create optimized, personalized product platforms.

TEAM/EXPERIENCE

Dayton Audio’s experienced team of designers places a high value on technical excellence, product reliability, and consistency of electro-acoustical performance. Our 20+ years of inspired, rational engineering has led to international acclaim by the loudspeaker community in particular. Never, in the pursuit of our audio goals, do we compromise on functionality or quality control.
Dayton Audio offers custom Original Equipment Manufacturer (OEM) and Original Design Manufacturer (ODM) services. This means we not only offer custom branded solutions within our product areas, but are a complete developmental partner capable of implementing fully customized product solutions—from concept to production!

Research and Development
The Dayton Audio product development team interacts continuously with industry professional associations such as ALMA (Association of Loudspeaker Manufacturing & Acoustics), CEA, NAMM, and CEDIA. This connectivity, often in a leadership role, with the forefront of the audio and electronics trades ensures Dayton Audio's ability to offer retail consumers and OEM/ODM partners the highest magnitude of benefits.

Our research & development team relies on state of the art, industry-standard tools, including the Klippel Distortion Analyzer (motor design, voice coil position, suspension geometry), Klippel Power Monitor 8 (power handling and heat dissipation), and CLIO (frequency response).

Our experience and proficiency have enabled us to be developers of our own test & measurement solutions, including OmniMic and DATS, making Dayton Audio expertise available to everyone involved in the field of electro-acoustic transducer design and evaluation. These combined technologies are interlaced with extensive listening tests in order to achieve optimum results when the product is deployed.

Quality
Dayton Audio's passion for audio performance is combined completely with a commitment to total product quality. Our experience satisfying the needs of end users enriches our ability to service OEM/ODM partners.

By utilizing quality control processes such as FMEA (Failure Mode Effect Analysis), PPAP (Product to Part Approval Process), DATS (Dayton Audio Test System), and Klippel, Dayton Audio is able to offer total assurance of product performance.

Logistics and Delivery
Superb design and competent project management amount to little unless they are accompanied by capable logistical support. The Dayton Audio facility includes thousands of cubic feet of warehouse space, located in a vibrant 90-minute market that also enjoys excellent international shipping access. Our pro warehousing team uses advanced inventory control and management technologies to move your orders down the street or across the world.

Dayton Audio products are available worldwide from a global network of distributors.

Dayton Audio’s proven ability to conceive, design, produce, and deliver a product ensures that cost and capitalization are reduced from your operating budgets, while guaranteeing consistent, predictable service.

Great Ideas Brought to Market
Add up Dayton Audio's design and manufacturing competencies, experienced support personnel, and financial stability—the numbers make a lot of sense for your business.
To inquire about implementing your own custom program, please contact us via info@daytonaudio.com or call 937-743-8248 today!
Epique By Dayton Audio Drivers
Epique by Dayton Audio is pleased to present a line of no-compromise drivers boasting a well damped carbon fiber cone, FEA-optimized underhung motor, 55 mm voice coil, titanium former and low loss rubber surround. They provide excellent off-axis and transient response for greater sound stage and realistic sound reproduction. With top notch components and quality construction, these drivers exemplify the axiom, “The whole is far greater than the sum of its parts,” and are nothing short of Epique.

Poly Cone Series Drivers
The Dayton Audio poly cone full-range drivers offer a poly damped woven glass fiber cone, rubber surround, and high energy motor. Full-range performance, controlled off-axis response, and high efficiency make them perfect for use in line arrays, sound bars, portable speakers, and even car audio.

Premium Inline Hi-Pass/Low-Pass Filters
The new Dayton Audio 2nd order (i.e. 12 dB per octave) high and low pass Linkwitz-Riley filters are constructed of high quality components and can easily be combined with other filters in the series to create 2-way or even 3-way crossover networks. Available frequencies from 500 to 6,000 Hz for both 4 and 8 ohm drivers.

DSP-408 4 Input 8 Output Digital Signal Processor
Designed with the speaker builder in mind, this potent DSP unit is equally applicable for car audio. You get key features like signal sensing, speaker and line level inputs, up to 8 channels of output and more, all with a sophisticated yet intuitive PC interface. Whether you’re calculating crossovers, time alignment, and/or phase correction, this is a must-have in any speaker builder’s toolbox. Add the optional Bluetooth dongle for wireless data and streaming functions.
What if you could wring every last drop of performance from your subwoofer, whether the cabinet is the optimum size or not? With the Digital Signal Processing (DSP) in the new Dayton Audio SPA250DSP and SPAS00DSP you can. These plate amps allow you to optimize the output of your woofer in your cabinet, rather than trying to build the cabinet to suit the driver. You no longer have to sacrifice low frequency for SPL, or box size for low frequency. You can adjust PEQs, HPF, LPF, Phase, Limiting, and Mains Delay, all according to your specific taste and needs. All the power is in your hands. Various parameters can be easily adjusted using the LCD display screen, or (for the deepest level of management over all functions) via USB connection to your computer using the intuitive GUI. Don’t be a slave to the sub cabinet. Be the master of your own destiny with the Dayton Audio DSP plate amplifiers.
CE Series Micro/Mini Drivers

Each CE Series driver provides excellent audio quality no matter what the overall system design goals may be. These versatile yet economical loudspeakers are available in sizes from 28 mm (1-1/8") to 90 mm (3-1/2") in diameter, and with power ratings from 1.5 watts to 5 watts continuous RMS power. Miniature audio applications deserve full-sized design solutions, and Dayton Audio’s CE Series offers big-speaker engineering in a small-speaker format.

- **CE30P-4**: High-output double neodymium magnet motor
- **CE40-28P-8**: Slim design for narrow and shallow profile installation
- **BMT25-4**: Unique, square-shaped form for tight driver-to-driver placement

Exciters & Specialty Transducers

Exciters and surface transducers convert virtually any substrate into invisible full-range sound. They are used in many industries, including gaming, point of purchase, robotics, displays, transportation, glass, and signage. Because of their low profile nature, these devices can be used in the most creative ways to introduce sound into markets that have been without audio due to environmental or space limitations. Exciters offer much wider dispersion and less attenuation with distance.

Exciter transducers turn virtually any surface into amazing sound.

Learn more about this technology by reading our whitepaper at daytonaudio.com.

- **Bass Shakers**
- **Tactile Puck**
- **Heavy Duty High Power**
- **Weatherproof**
- **Coin Size**
- **Bone Conductor**
- **High Shove**
- **Flat Pack**
- **Quad Feet**
- **Thruster**
AMT Series Tweeters
- Resolution and detail that exceeds the capabilities of most dome tweeters
- Powerful, lightweight neodymium magnet structure for low distortion and high efficiency

Planar Series Tweeters
- Superb resolution and detail for the most discerning audiophile
- Wide horizontal and narrow vertical dispersion patterns are ideal for line array use

Neo Tweeter Series
- Excellent sensitivity, smoothness, and power handling
- Economical 2-way option with most small woofers

Reference & Classic Series Tweeters
- Low-distortion motors and premium diaphragms deliver superb accuracy
- Advanced transducers for monitor-quality loudspeaker systems

Reference & Classic Series Dome Midranges
- Low-mass doped fabric or aluminum diaphragm for articulate reproduction
- Excellent off-axis response, especially at higher frequencies
HIGH PERFORMANCE LOUDSPEAKER SOLUTIONS
Woofers, Midranges, and Full-Ranges

Neuro-Balanced Series
- Neo-Balanced underhung motor structure with copper alloy shorting ring provides low distortion, wide-range performance
- Great for line arrays and micro monitors
- Matching passive radiators available
- Available in 2-1/2", 3-1/2", 4", and 5-1/4"

Esoteric Series
- Minimal power compression, huge dynamic range, incredible detail
- Sophisticated neodymium motors with distortion-reducing copper shorting rings and/or caps
- Available in 5-1/2" and 7"

Designer Series
- Handles full rated power at the lowest possible frequencies, without exceeding Xmax
- Yields a low 3 dB down point and high potential output in reasonably sized cabinets
- Matching passive radiators available
- Available in (treated paper/aluminum) 3", 4", 5", 6-1/2", 8", 10", and 12"

Classic Series
- Parameters match a wide range of applications for both replacement and new projects
- Very durable, unsurpassed value, great sonic quality
- Available in 5-1/4", 6-1/2", 8", 10", 12", and 15"

Reference Series
- One of the lowest distortion, highest resolution driver series available anywhere
- Transcendent performance combined with a surprisingly realistic price
- Available in (paper/aluminum) 3", 4", 5", 6", 7", 8", and 10"

Point Source Series
- High sensitivity/minimal distortion—an ideal match for lower powered amplifiers
- Parasitic HF cone and carefully engineered phase plug extend on- and off-axis response
- Available in 3-1/2", 6-1/2", and 8"
Poly Cone Series
- Poly damped woven glass fiber cone controls cone break-up and provides a smooth roll-off
- High energy ferrite magnet increases BL for higher efficiency and more output
- Available in 2-1/2", 3", and 4"

Coaxial Series
- Full-range with accurate bass and extended high frequency response
- Open cast frame for improved air flow and reduced power compression
- Available in 4" and 5-1/4"

Epique By Dayton Audio Drivers
- Ultra-stiff carbon fiber cone
- FEA optimized underhung neodymium motor design
- Titanium voice coil former guarantees very low energy storage and good heat transfer
- Available in 5-1/4" and 8"

Pro Series
- FEA-optimized neodymium magnet assembly for generous X-max
- Copper shorting ring, dual spiders, triple roll surround
- 4" aluminum voice coil, and glass fiber former for outstanding high power handling
- Available in 5", 6", 8" 10", 12", and 15"
DVC Series
- Dual voice coils present expanded connection options compared to single coils
- Outstanding subwoofer performance in home and mobile audio applications
- Matches Designer Series drivers
- Available in 8", 10", and 12"

Reference Series
- Extensively vented motor eliminates compression and allows quiet excursion
- Extra-thick black anodized aluminum cone for maximum rigidity
- Triple shorting ring motor for ultra-low distortion
- Matching passive radiators available
- Available in 8", 10", 12", 15", and 18"

Low Profile Series
- Innovative low profile design
- Rigid flat honeycomb fiberglass cone maintains its integrity under severe conditions
- Available in 6", 10", and 12"

Ultimax Series
- The apex of subwoofer design—purpose-built to move air and create clean, articulate bass
- Copper shorting rings and dual spiders limit distortion and increase linearity
- Available in 8", 10", 12", 15", and 18"
DAYTON AUDIO ENGINEERED AMPLIFIERS
Mini Amplifiers

**DA30 2 x 15W Class D Bridgeable Mini Amplifier**
- Clear, articulate hi-fi sound quality, but built for the tough requirements of commercial duty
- For classrooms, boardrooms, bedrooms, and more

**DTA-1 Class T Digital AC/DC Amplifier**
- Versatile, palm-sized Class-T 30 watt audiophile amplifier
- 88% amp efficiency reduces power requirements

**DTA-120BT 60W Class D Digital Bluetooth Mini Amplifier**
- Provides articulate amplification for your loudspeakers and headphones via analog or Bluetooth input
- Efficient Class D design delivers 60 watts RMS output into stereo 4 ohm loads

**DTA-2.1BT 100W Class D 2.1 Digital Bluetooth Mini Amplifier**
- Stereo speaker output and dedicated subwoofer output
- Class D power from an extremely compact and lightweight design
DAYTON AUDIO
ENGINEERED AMPLIFIERS
Plate Amplifiers

WF60PA 60W Class D Plate Amplifier with Wi-Fi and Bluetooth
- Convenient wireless remote allows full control
- Multiple input options including Wi-Fi, optical, RCA, 3.5 mm, and Bluetooth 4.0 with aptX®

SPA2400DSP, SPA1200DSP, SPA500DSP and SPA250DSP Subwoofer Plate Amplifiers
- Built-in Auto Room EQ function and microphone for room calibration
- iPhone Wi-Fi remote control app for convenient control via smart device
- PC controlled, intuitive GUI via USB

Compact Subwoofer Plate Amplifiers
- Power output from 25 to 250 watts RMS @ 4 ohms for smaller subwoofer drivers
- Perfect fit for computer workstations, dorm rooms, and other typical home theaters

SPA500 and SPA1000 Subwoofer Plate Amplifiers
- Powerful Class AB output stage for clean, controlled low-distortion output
- Patented tracking downconverter power supply for high efficiency and great dynamics
APA102 Stereo Amplifier
- Selectable A/B outputs, auto-on, and auto-source switching
- Efficient, dynamic Class D output topology

APA150 2-Channel Amplifier
- High current, discrete output design runs cool and quiet—and sounds great
- Compact and versatile, even doubles as a subwoofer amp

PMAB00DSP 2-Way Bluetooth Plate Amplifier
- Impressive 800W of power output in a compact full range plate amplifier
- On board 2-channel mixer, line output and built-in Bluetooth eliminates the need for extra gear
- Fully USB programmable DSP function lets you customize your sound and set crossover point

APA102 Stereo Amplifier
- Selectable A/B outputs, auto-on, and auto-source switching
- Efficient, dynamic Class D output topology
DAYTON AUDIO
ENGINEERED AMPLIFIERS
Multi-Zone and Subwoofer Amplifiers

SA1000 Subwoofer Amplifier
• The raw power and efficiency of a pro-sound amp, but with far more refinement
• Low frequency parametric EQ boosts or cuts for a custom-tailored response

SA230 Subwoofer Amplifier
• Mono Class AB output stage for solid, well defined output
• Variable gain, bass boost, crossover frequency, and phase adjustment guarantee perfect integration

MA1240a and MA1260
Multi-Zone 12-Channel Amplifiers
• Independent and bus inputs enable unparalleled flexibility for whole-house audio
• Bridgeable channel outputs provide additional power when needed

DAX66 Distributed Whole House Audio System
• System controlled by IR remote, keypad, or automation system via RS232 interface
• Six source inputs, six zone outputs, expandable to 18 zones

DAYTON AUDIO
ENGINEERED AMPLIFIERS
Multi-Zone and Subwoofer Amplifiers
DATS V2

- Highly accurate measurement of loudspeaker impedance and T/S parameters
- Easy-to-use, fully-featured measurement software with intuitive interface
- Compact USB measurement module with molded test leads and alligator clips
- Software includes signal generator, scope, and measurement of inductors and capacitors
- Data can be saved to create a driver parameter library or exported to popular box design programs
- New V2 hardware and software simplify setup and eliminate warm-up/cool-down times

Any engineer knows that valid and accurate data is crucial to great results. DATS (Dayton Audio Test System) V2 is the essential tool in any speaker designer’s or audio engineer’s toolbox, providing accurate, precise measurement data for any audio transducer or loudspeaker system. Save yourself time, money, and trial-and-error frustration by using DATS V2 to measure loudspeaker drivers, crossover networks, and complete audio systems!

Advantages:

- Accurate measurement of loudspeaker electromechanical parameters (Fs, Qts, Vas, and many more)
- Measurement of advanced Wright Model parameters (Kr, Xr, Ki, X0) for precision simulations
- Precise, high-resolution impedance response measurements with 30,000 data points (1 Hz to 20,000 Hz)
- Save and compare up to 20 impedance graphs simultaneously within one test file
- Integrated quality control feature set provides pass/fail parameter measurement (QC Pack)
- Sensitive rub and buzz detection functionality reveals hidden flaws in individual drivers (QC Pack)
- Software signal generator with selectable waveform, frequency, and amplitude
- Generates sine, square, triangle, saw tooth, impulse, pink noise, and log sweeps
- Oscilloscope software mode with dual traces, plus adjustable time and amplitude scales
- Quality test interface hardware assembled using precision SMT components and automation
- Includes method for calculating Vas from specified Mmd
Dayton Audio OmniMic V2 Precision Measurement System

- Updated software and improved hardware
- Compact, portable, accurate, affordable
- Intuitive software—open the box and start testing in minutes
- Perfect for setting up home theater systems
- Optimized for use with netbooks and laptops

Years ago, speaker builders had to rely on speaker design models (essentially operating in the dark) or spend thousands of dollars on expensive, temperamental equipment just to get a glimpse at how their speakers were performing. Not any longer! At nearly 1/10th the price of its closest competitor, you can't afford not to buy the Dayton Audio OmniMic V2 precision measurement system!

Measurements:

- SPL meter with A, B, C, or no weighting
- Spectrum analyzer, FFT, or RTA
- Frequency response with phase and impulse response
- Oscilloscope function to view complex waveforms
- Harmonic distortion: 2nd, 3rd, 4th, 5th harmonics plus THD
- RT60 reverberation: measures sound reflection
- Bass decay function identifies room modes and helps determine proper subwoofer placement
- Polar Plotting, in flat or 3D radar format
- Wavelet Spectrogram (color) to the Waterfall group

Dayton Audio’s OmniMic V2 is the must-have acoustic measurement system for audio system integrators, acoustic engineers, and residential A/V installers, and has the power to turn a do-it-yourself speaker builder into a speaker designer.
EMM-6 Electret Measurement Microphone
• Designed to excel at audio measurement and critical recording applications
• Perfect for use with room acoustic analyzers and audio measurement systems
• True omnidirectional pattern with calibrated flat frequency response
• Low noise FET input reduces low-frequency distortion
• Gold-plated XLR output connector for accurate signal transfer

UMM-6 USB Measurement Microphone
• Precision condenser microphone for critical measurement and recording applications
• Matches the level of precision previously offered only by expensive measurement equipment
• True omnidirectional pattern with calibrated flat frequency response
• Compatible with most industry-standard measurement software

iMM-6 Smart Phone & Tablet Calibrated Measurement Microphone
• Turns your iPad, iPhone, or Android device into a laboratory grade audio measurement tool
• Precision condenser microphone for use via 3.5 mm TRRS headset jack
• True omnidirectional pattern with calibrated flat frequency response
• Kickstand feature elevates and angles device and microphone capsule
PREMIUM LOUDSPEAKER COMPONENTS
Crossovers, Amp Boards, Inductors, Capacitors, and Resistors

KAB Bluetooth Amplifier Boards
- Integrated Bluetooth and wiring harnesses make installation simple
- Extreme versatility allows for endless applications

Speaker Crossovers
- Designed using a second order (12dB) Linkwitz-Riley alignment
- Unique jumper on low pass section allows choice of 4 or 8 ohm woofer loads

Capacitors
- Precision 1% Metalized Polypropylene
  - Tightest capacitor tolerance available
  - Extra-thick tinned copper leads
- Metalized Polypropylene
  - High current capacity
  - Specifically designed for crossovers
- Film & Foil Polypropylene
  - Ideal for bypass use
  - Superior sonic detail

Resistors
- 10W audio-grade
- Precision 2% tolerance
- Gold plated leads

Perfect Layer Air Core, Foil Air Core, and Iron Core Inductor Crossover Coils
- High purity copper
- Low DCR

Inline Hi-Pass/Low-Pass Filters
- 2nd order 12 dB/octave Linkwitz-Riley filters provide smooth response through the crossover frequency
- High quality components ensure low distortion and accurate response

DTA-2 Class T Digital Audio Amplifier Module
- Turnkey audiophile amp module for custom installations
- Class T digital amplification based on the Tripath TA-2024 IC
Stock Blank and Custom Real Wood Speaker Cabinets
- Solid construction, furniture-quality cabinets
- Stylish, curved-sided to complement any decor
- Available in high-gloss black lacquer finish or cherry real wood veneer

Binding Post Plates
- Pre-installed gasket and beveled outside edge allow easy installation
- Available with silver or black anodized finishes

Binding Posts
- Premium Fully Insulated
  - Fully-insulated 5 way binding post
  - Terminated with easily-soldered .250" male disconnect tabs

- Heavy Duty
  - Audiophile quality
  - Ideal for high power applications

- Premium
  - High quality 5-way binding posts
  - Designed to complement Dayton Audio Binding Post Plates

Speaker Spikes
- Dramatically improves clarity, stereo imaging, and bass response
- Two-piece tip design for level adjustment