

Product Catalog

2025





THE BEAUTY OF POLISH ENGINEERING

Engineering, for us, is an expression of timeless beauty. We create products that are not only aesthetic but, above all, designed according to the principles of precise engineering, from the very beginning of the project to the smallest details of execution. The beauty in our devices arises from their functionality, durability, and thoughtful, harmonious design.

Our vision extends beyond just innovative technical solutions. We draw inspiration from the past to combine what is proven with modern standards. By designing devices that stand the test of time, we believe that beauty is eternal—if it is rooted in solid craftsmanship and technical thought.

Unitra is synonymous with durability and repairability. We aim to minimize the environmental footprint by designing devices that will last for years and are easy to repair and maintain. This is not only our responsibility to the users but also to future generations.





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Since 1961 to Present

Unitra's Golden Years (1961–1989)

Unitra's history dates back to 1961, when the Union of the Electronic and Communications Industry (Zjednoczenie Przemysłu Elektronicznego i Teletechnicznego) was established. In a short time, the brand became a driving force in the Polish electronic industry, bringing together as many as 28 manufacturing companies, supported by technology sales centers and design and engineering offices. At its peak, the company employed around 100,000 people, and its products were highly praised both in Poland and abroad. During its period of rapid growth, Unitra became synonymous with state-of-the-art consumer electronics, offering an extensive range of audio products that found their way into millions of Polish homes. By setting new standards in design and manufacturing, Unitra firmly established itself as the industry leader.

Changes After 1989

Unitra is one of the few pre-1989 brands that have successfully navigated the political transformation and continued to operate in the new environment. Over the years, the owner of the trademark, Unitra Towarzystwo Przemysłowo-Handlowe S.A. (Unitra S.A.), undertook many business and cultural initiatives related to the brand, but did not design any audio equipment.



“Our engineering team is more than just a group of employees. They are the backbone of our company and the heart of our product design efforts. Their commitment, knowledge, and experience are crucial to our success.”

~ADRIAN KRUPOWICZ

CTO UNITRA

A Brand Reborn

A breakthrough came in 2021 when Unitra Sp. z o.o. was established through the initiative of Daniel Kostrzewa and Adrian Krupowicz, backed by an investment from Michał Kiciński. Bringing a new lease of life to the brand, the company embarked on creating a new audio product lineup that stays true to Unitra's 20th-century traditions while embracing modern principles of sustainability and repairability in high-performance electronics.

Today, Unitra is a rapidly growing company with **one of Europe's largest R&D organizations**, employing more than 20 experienced engineers. Our team not only draws from our rich heritage but also builds on past experiences to deliver innovative technology solutions that address modern-day challenges.









We create for generations

We envision a world in which consumers no longer settle for electronic equipment that is made to be unrepairable or even disposable. We believe that engineering is an art, and our goal is to make people passionate about it.

For us, engineering is an archetype of timeless beauty. We believe that our products are beautiful because they are designed in accordance with engineering best practices: from the initial concept to the tiniest details of implementation. When something is elaborately engineered from the ground up and carefully executed, its beauty emanates from within.

Timelessness

Our products not only stand out for their unique aesthetics, but are also designed to stand the test of time. We strive to create devices that will please users for many years, maintaining their functionality and attractive appearance.

Repairability

We take responsibility for our products and care about the natural environment. That's why we design our devices to be easy to repair and maintain, which allows them to last longer and reduce their negative impact on the environment.

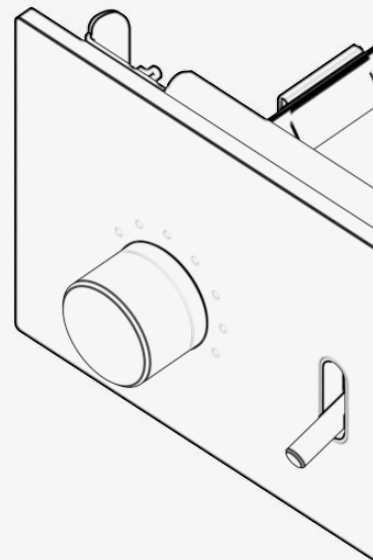
Innovation

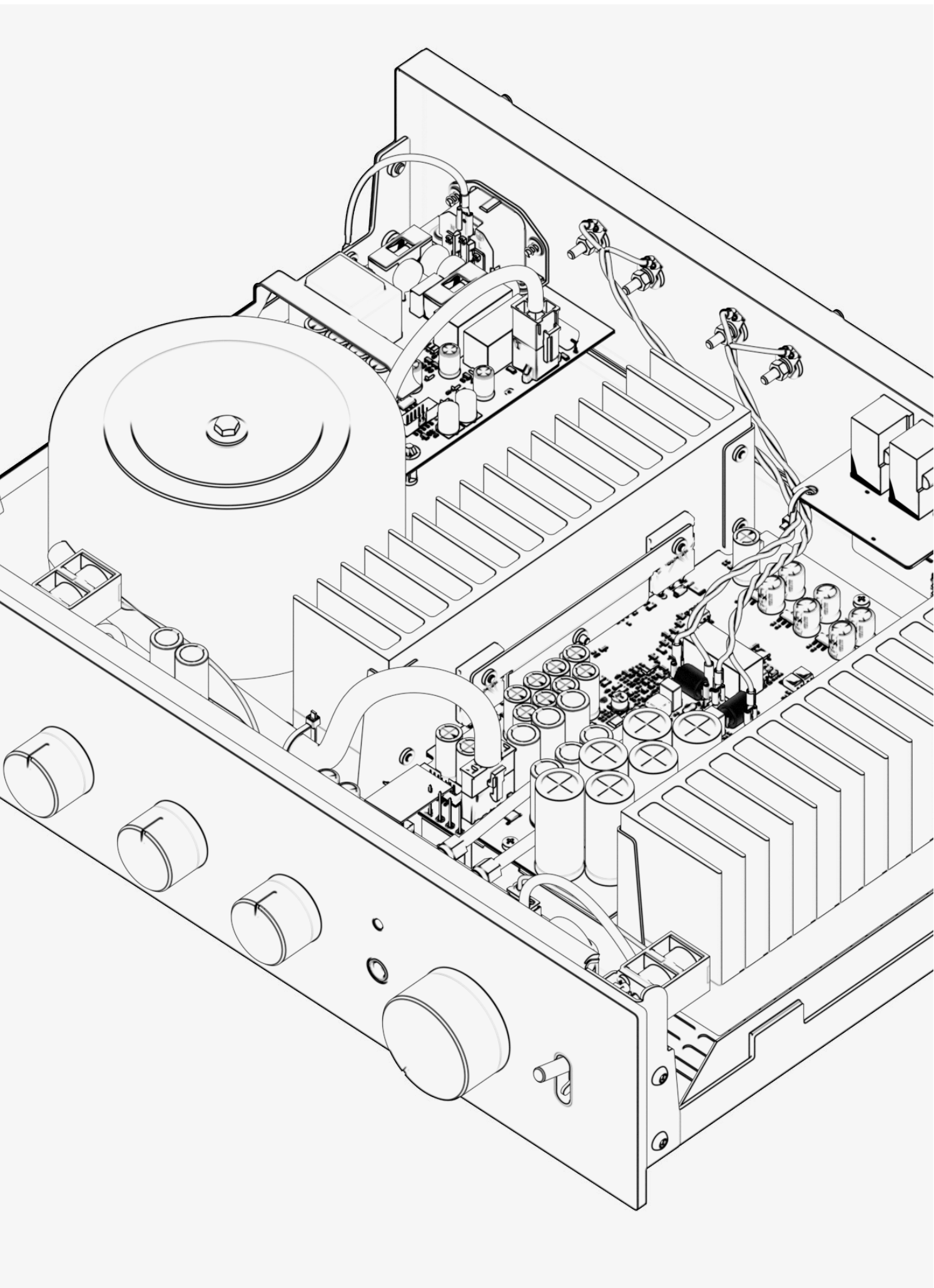
Whether it's new technologies or innovative design approaches, we are always looking for innovation. We believe that constantly searching for new solutions allows us not only to meet the expectations of our customers, but also to exceed them.

Driven by Engineering

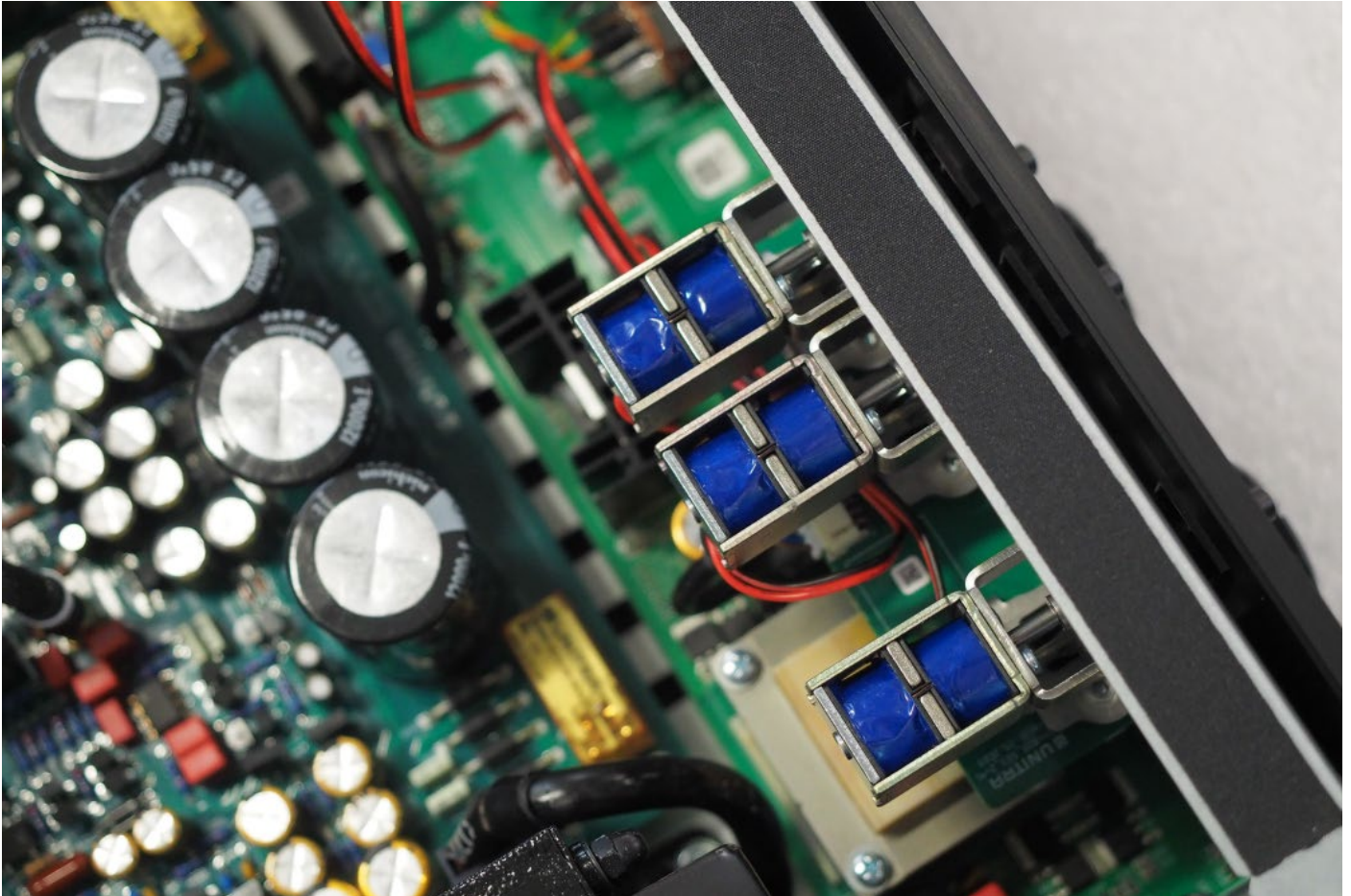
We aim to build upon Poland's best traditions in audio engineering by creating equipment that is manufactured locally and continues to bring memorable experiences to users for many years.

We strive to establish Unitra as a globally recognized Polish technology company that drives new developments across all our areas of operation. We aspire to set industry trends and standards and to become synonymous with engineering excellence and competence for our customers. Last but not least, we want to be a company that embraces challenges, responding to the needs of those who believe in the transformative power of science and technology to make the world a better place.



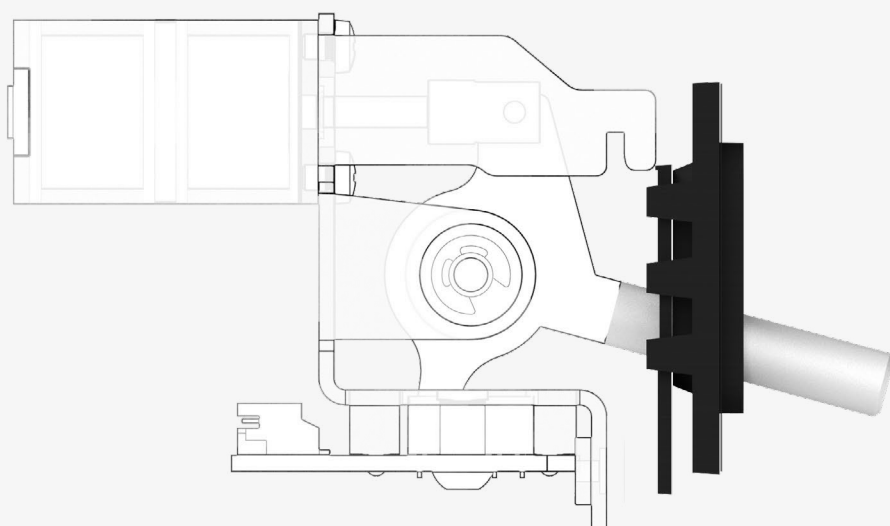
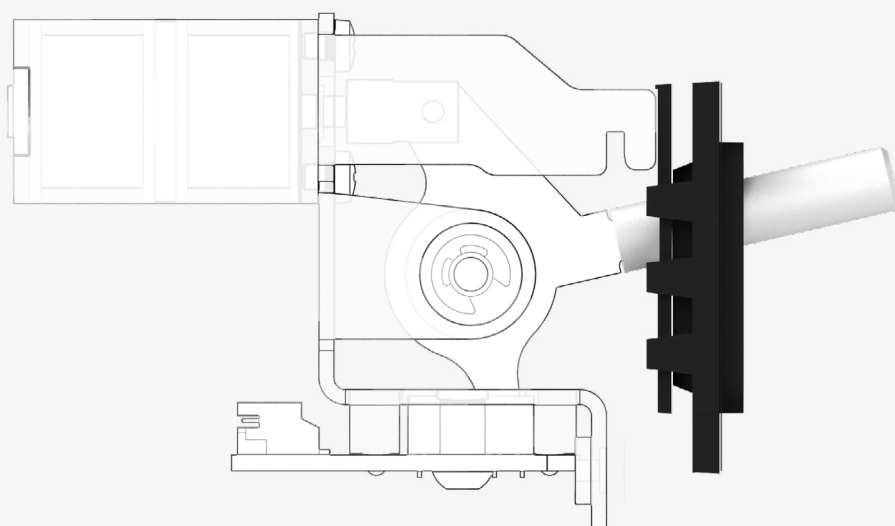


Classic Switches — Automated



Our patented, automated switches blend classic design with cutting-edge technology, offering the convenience of remote control without compromising the tactile feel of physical components. We have preserved the timeless look and feel of our toggle switches while elevating their functionality to meet 21st-century standards of convenience, reliability, and precision. The meticulous attention to detail that goes into the design and operation of these switches embodies our engineering philosophy where tradition meets innovation.

Enjoy the best of both worlds: the tactile feel of a carefully engineered switch mechanism and the convenience and freedom that come with remote control.



Designed Experience

At Unitra, we design our products to deliver a complete user experience, with every interaction carefully thought out. From the look and feel of the interface to the overall visual design, our audio equipment is built to provide maximum satisfaction and convenience in everyday use.

User Interface

Our products are thoughtfully crafted to be intuitive and user-friendly, and every aspect of the interface follows a clear concept that combines functionality and style. With its needle-type VU meters and toggle switches, our WSH-805 amplifier honors classic designs while incorporating state-of-the-art technology.

Likewise, the CSH-801 CD player features an innovative E Ink display for a sleek appearance and exceptional clarity. This ensures a pleasant visual experience combined with enhanced usability and convenience – whether during the day or at night.

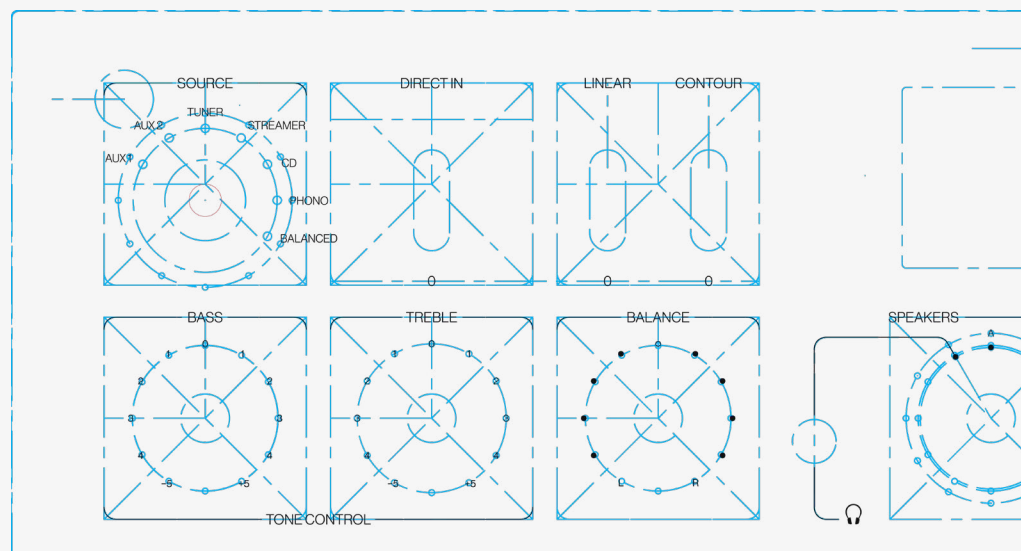
Design

Our design philosophy is built on timeless principles that merge aesthetics with practicality. We draw our inspiration from the 1970s, the golden age of audio technology, which is evident in our products' visual style. The WSH-805 amplifier epitomizes this blend of minimalist, sleek design and functionality to create a product that stands the test of time.

Commitment to a Complete Experience

With our products, the user experience goes beyond the equipment itself. Our carefully designed packaging not only protects the contents but also offers a delightful unboxing experience. Our network of retail stores provides support and advice, ensuring that every aspect meets our customers' expectations. We are dedicated to making each step – from product selection to everyday use to warranty service – a satisfying experience.

At Unitra, we believe that a complete audio experience is not just about sound quality, but also about the sensations that every interaction with our products can bring.







Natural Sound

At Unitra, we are committed to ensuring that our audio equipment conveys the true essence of music and the emotions that it evokes. Our idea of realism is embodied in our turntables, which deliver a warm, full-bodied, and organic sound characteristic of analog technology. We believe that vinyl records go beyond mere sound – they encapsulate the spirit of music, allowing us to experience it in the most authentic manner possible.

Thanks to their coherence and genuine tonality, Unitra's loudspeakers immerse listeners in music as if it were live. Their clarity and realism bring sounds to life, delivering an extraordinary experience filled with emotions and nuances.

Our amplifiers are designed to be as neutral as possible while delivering an enjoyable listening experience. This combination of technological precision and emotional musical reproduction makes every listening session memorable.

We believe that true music should have a soul, and our products are crafted to preserve and convey this essential quality. With our equipment, listening to music becomes more than just a technical activity – it is an immersion into sounds that carry emotions and stories within every note.

“Natural sound is a quintessential aspect of a true musical experience. Every note is a carefully crafted harmony that envelops the listener, delivering unparalleled enjoyment and a deep emotional resonance that cannot be achieved otherwise.”

~*DANIEL KOSTRZEWA*

CEO UNITRA



Materials

We place great emphasis on the quality of our materials. Our products feature stylish and durable aluminum front panels in silver and black, which undergo multiple treatments to achieve a perfect finish. Processes such as milling, chamfering, brushing, and anodizing make these panels not only visually appealing but also scratch-resistant. Graphics and markings on the front panels are applied using screen printing to ensure durability and readability.

We use veneers like American walnut, black ash, and light ash to give our products a luxurious touch. The grilles, made from linen and black acoustic fabric, combine elegance with functionality to deliver exceptional acoustic properties.

Enclosure and Front Panel

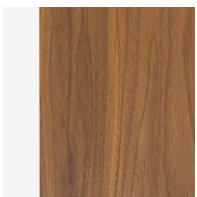


Silver

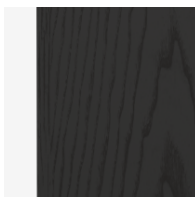


Black

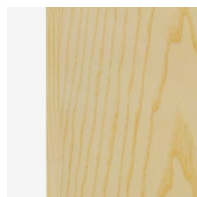
Veneers



American Walnut



Black Ash

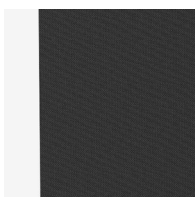


Light Ash

Grille



Natural Linen



Black

“Every component of our devices is selected with its natural properties in mind-free from unnecessary embellishments. We believe in the honesty of materials, as they are the foundation of our products' durability and character.”

~WIKTOR SZULFER

LEAD INDUSTRIAL DESIGNER AT UNITRA

Warranty

Unitra products have been designed so that their innovative character matches the highest quality of workmanship. The decision to purchase them is to choose a solution that combines unique sound quality, timeless design, Polish engineering and a sustainable production process.

Before being put on sale, each product is subjected to numerous tests covering many thousands of service cycles. The inspections concern functionality, durability, strength of the material used and its quality. These tests allow us to ensure that each Unitra product will function flawlessly for many years. Depending on the selected product, the warranty period is 2 years or 5 years. The warranty period is valid from the date of purchase.

Depending on the selected product, the warranty period is 2 years or 5 years. The warranty period is valid from the date of purchase.

5 years

Applies to:

- ZGZ-801
- ZGZ-801 mk2
- ZGB-601
- ZGB-401

2 years

Applies to:

- WSH-805
- WSH-605
- CSH-801
- DSH-805
- GSH-801
- GSH-630
- KG-25
- KG-40





Our Achievements and Accolades



For many years, Unitra has seamlessly combined engineering excellence with superb design, earning recognition from international experts. Our products have garnered awards not only for their sound quality but also for their aesthetic appeal and innovative design. Here are some key awards that showcase our commitment to creating beautiful and feature-rich audio equipment.



Photo: HAWA / Łódź Design Festival

Red Dot Design Award 2023

The WSH-805 amplifier received this prestigious award for its timeless design and minimalist elegance. The Red Dot is one of the most prestigious design awards in the world, recognizing the highest standards of product design.



reddot winner 2023

Finalist: Dobry Wzór 2023

The hi-fi audio system consisting of the WSH-805 dual-mono amplifier, the CSH-801 compact disc player, the GSH-801 and GSH-630 turntables, the ZGZ-801 speaker system, and the KG25 and KG40 speaker cables was recognized for its excellence in consumer product design.



Must Have Łódź Design Festival 2024

Our hi-fi system was also honored at the Łódź Design Festival with the Must Have award for its innovation and refined visuals, establishing it as one of the best developments in Polish product design.



iF Design Award 2025

Our hi-fi system has also been recognized for its high-quality, thoughtful design that evokes nostalgia at home while appealing to new generations around the world, offering lasting value and enjoyment.



Red Dot Design Award 2025

The honored audio hi-fi set includes the WSH-805 dual-mono amplifier, the CSH-801 compact disc player, the GSH-630 turntable, and the ZGZ-801 speakers. The project earned recognition from the international jury for its combination of minimalist design, exceptional ergonomics, and high-class craftsmanship.



reddot winner 2025

Products







Dual-Mono Amplifier

Tracing its design to the legendary hi-fi products of the 1970s, this award-winning integrated amplifier offers a unique blend of outstanding sound quality and timeless visual design backed by excellent performance achieved through the collaborative efforts of a team of Polish engineers.



reddot winner 2023



POWER AMPLIFICATION SPECIFICATIONS

Output Power – Class AB	80 W (8 Ω) 125 W (4 Ω)
Output Power – Class A	8 W (8 Ω) 16 W (4 Ω)
Total Harmonic Distortion + Noise (THD + N)	<0.0014% (40 W / 8 Ω / 1 kHz)
Frequency Response	6.3 Hz – 110 kHz (–3 dB)
Signal-to-Noise Ratio (SNR)	102 dB
Channel Separation	100 dB (1 kHz)
Intermodulation Distortion	<0.0015% (19 + 20 kHz, 10 W)
Slew Rate	>40 V/μs

INPUTS / OUTPUTS

Audio Inputs	5 × RCA (Line In) 1 × Direct In 1 × Phono (MM / MC) 1 × Balanced (XLR)
Speaker Terminals	8
Pre-Out	Yes
Headphone Output (6.3 mm)	Yes (dedicated head-phone amplifier)

FEATURES

Number of Channels	2
Dual Mono	Yes
Class	A / AB (switchable)
Adjustments	Bass Treble Contour (smart adaptive contour)
Linear (tone control bypass)	Yes
Balance	Yes (no impact on channel crosstalk)
Protection Features	Delayed speaker, output switching, Short circuit protection, DC Output protection, Automatic clipping detection, Over-heat protection

GENERAL

Dimensions	440 × 385 × 143 mm
Mass	18.5 kg
Maximum Power Consumption	500 W
Standby Power Consumption	<0.5 W
Available Finishes	Silver, Black
Package Contents	Power cord, remote controller with battery, owner's manual, warranty card



WSH-605

Integrated Stereo Amplifier with On-Board DAC and Error Correction Technology

Unitra's latest amplifier, the WSH-605, combines advanced technology with exceptional versatility. Its innovative error correction technology ensures precise and accurate sound reproduction in a compact form, making it an ideal choice for those seeking a universal, high-performance audio solution with no-compromise quality.



POWER AMPLIFICATION SPECIFICATIONS

Output Power	70 W (8 Ω) 110 W (4 Ω)
Total Harmonic Distortion + Noise (THD + N)	<0.0008% (60 W / 8 Ω / 1 kHz)
Frequency Response	7.5 Hz – 75 kHz (–3 dB)
Signal-to-Noise Ratio (SNR)	108.8 dB
Channel Separation	75 dB (1 kHz)
Intermodulation Distortion	<0.0005% (19 + 20 kHz, 10 W)
Slew Rate	>31 V/μs

INPUTS / OUTPUTS

Analog inputs	4 × RCA (Line In) 1 × Phono (MM)
Digital Inputs	2 × Optical 2 × Coaxial
Digital-to-Analog-Converter (DAC)	ESS SABRE
Supported Digital Format	PCM max 192 kHz, 24 bit
Speaker terminals	4
Pre-out	Tak
Headphone Output (6.3 mm)	Yes (dedicated headphone amplifier)

FEATURES

Number of Channels	2
Class	AB
Adjustments	Bass Treble
Linear (tone control bypass)	Yes
Balance	Yes (no impact on channel crosstalk)
Protection Features	Delayed speaker, output switching, Short circuit protection, DC Output protection, Automatic clipping detection, Over- heat protection

GENERAL

Dimensions	440 × 372 × 104 mm
Mass	11.8 kg
Maximum Power Consumption	430 W
Standby Power Consumption	<0.5 W
Available Finishes	Silver, Black
Package Contents	Power cord, remote controller with battery, owner's manual, warranty card



Analog-sounding CD player that emphasizes the beauty of the digital medium

Designed to match the visual style of the new Unitra product line, this player features a unique user interface that includes a backlit E Ink display with a pleasing and natural-looking paper-like appearance. The aluminum finish of the front panel and the disc visor complement the design.



CD TRANSPORT MECHANISM

Drive Mechanism	TEAC CD5020B-AT
Supported Disc Formats	CD, CD-R, CD-RW
Supported Audio Formats	CD-DA (CD-Audio) WAVE, MP3

OUTPUTS

Analog	1 × RCA
Digital	1 × Optical 1 × Coaxial

OUTPUT PARAMETERS

Frequency Response	7 Hz – 20 kHz
Sampling Rate	44.1 kHz
Total Harmonic Distortion + Noise (THD + N)	0.0004%
Dynamic Range	92 dB
Channel Separation	90 dB
Signal-to-Noise Ratio (SNR)	91 dB
Output Level	2100 mV _{RMS} 3000 mV _{MAX}
Digital-to-Analog Converter (DAC)	Yes (32-bit DAC, 16-bit data, 112 dB)

FEATURES

Display	E Ink (3.69", 480 × 280 px, monochrome)
CD Viewport	Yes
Playback	Random Play, Repeat and more
Disc Information Display	Yes (album title, album artist, number of tracks, album length, track list, track title, track artist, and more)
Firmware updates	Yes (USB-C)

GENERAL

Dimensions	440 × 355 × 143 mm
Mass	6.9 kg
Maximum Power Consumption	9 W
Standby Power Consumption	<0.5 W
Interface Languages	Polish, English, German, French
Available Finishes	Silver, Black
Package Contents	Power cord, remote controller with battery, owner's manual, warranty card



GSH-801 Edmund

Edmund turntable for the most discerning listeners

Edmund is currently Unitra's top-of-the-line turntable – a direct-drive unit based on a proprietary motor specifically designed by Unitra and only available in the company's products, fitted with a sophisticated speed control system. It uses an external power supply and provides direct tonearm access with a DIN connector to remove even the slightest obstacles on your path to the perfect sound quality.



TONEARM

Model	Unitra R-10
Material	Aluminum
Bearing System	Two pairs of bearings on tapered pivots
Effective Length	228.22 mm
Adjustable Tonearm Height	Yes
Supported Cartridge Mass	3 – 12 g

DRIVE SYSTEM

Model	Unitra NB-1
Type	Direct Drive
Motor Type	Air-core brushless DC motor
Speed Control	Digital controller
Rated Speed	33⅓ RPM, 45 RPM
Wow & Flutter	<0.08 %

OUTPUTS

Analog	DIN 5-pin (directly from the tonearm)
Digital	No

OGÓLNE

Dimensions (dust cover closed)	429 × 373 × 178.3 mm
Mass	14.1 kg
Maximum Power Consumption	4 W
Standby Power Consumption	<0.5 W
Power Supply Type	External
Platter Material	Aluminum
Platter Mass	2.3 kg
Enclosure Finish	Aluminum panel, natural veneer
Available Finishes (Panel / Veneer)	Silver / American Walnut Silver / Black Ash Black / American Walnut
Included Cartridge	Ortofon 2M Black (MM)
Package Contents	External power supply, power cord, DIN 5 pho-RCA phono cable, owner's manual, warranty card



GSH-630 Fryderyk



Direct Drive Turntable

Fryderyk is a direct-drive turntable based on a proprietary motor specifically designed by Unitra and only available in the company's products, fitted with a sophisticated speed control system. With its timeless design, the unit is a perfect match for Unitra's WSH-805 amplifier.



ONEARM

Model	Unitra R-10
Material	Aluminum
Bearing System	Two pairs of bearings on tapered pivots
Effective Length	228.22 mm
Adjustable Tonearm Height	Yes
Supported Cartridge Mass	3 – 12 g

DRIVE SYSTEM

Model	Unitra NB-1
Type	Direct Drive
Motor Type	Air-core brushless DC motor
Speed Control	Digital controller
Rated Speed	33⅓ RPM, 45 RPM
Wow & Flutter	<0.09 %

OUTPUTS

Analog	Yes (RCA + GND)
Digital	No

GENERAL

Dimensions (dust cover closed)	440 × 385 × 152 mm
Mass	11.7 kg
Maximum Power Consumption	4 W
Standby Power Consumption	<0.5 W
Power Supply Type	Built-in
Platter Material	HDPE
Platter Mass	1.6 kg
Enclosure Finish	Aluminum panel, natural veneer
Available Finishes (Panel / Veneer)	Silver / American Walnut Silver / Black Ash Black / American Walnut
Included Cartridge	Ortofon 2M Bronze (MM)
Package Contents	Cartridge, power cord, 2 × RCA phono cable, owner's manual, warranty card



ZGZ-801

Closed-Box Loudspeaker

Unitra's ZGZ-801 is a closed-box speaker system. Thanks to its excellent dynamic range, high sensitivity and gentle impedance curve, it is a perfect match for any amplifier.



ACOUSTIC PARAMETERS

Frequency Response	52 Hz – 20 kHz (–3 dB)
Sensitivity	90.8 dB
Impedance	6 Ω
Power Rating	190 W RMS
System	3-way
Crossover Frequencies	700 Hz, 2.8 kHz
Enclosure Type	Sealed
Connector Type	Dual (bi-wire / bi-amp)
Woofer	2 × 8" paper cone
Midrange	1 × 8" polypropylene cone
Tweeter	1 × 27 mm textile dome

GENERAL

Dimensions	280 × 328 × 1188 mm
Weight	2 × 37 kg
Magnetic Grille	Yes
Enclosure Finish	Natural veneer
Available Finishes (Enclosure / Grille)	Walnut / Natural Linen Black Ash / Black Acoustic Fabric
Package Contents	Owner's manual, warranty card



ZGB-401

A speaker system in which art meets technology

A speaker system in which art meets technology. The ZGB-401 is a ported speaker system designed for listeners who prefer the bookshelf form factor.



ACOUSTIC PARAMETERS

Frequency Response (-3 dB)	60 Hz to 20 kHz
Sensitivity	87 dB
Impedance	4 Ω
Power Rating	60 W RMS
System	2-way
Crossover Frequency	2.4 kHz
Enclosure Type	Ported (plug included)
Connector Type	Dual (bi-wire / bi-amp)
Mid-Woofer	1 × 150 mm polypropylene membrane
Tweeter	1 × 27 mm textile dome

GENERAL

Dimensions	210 × 275 × 380 mm
Weight	2 × 10.5 kg
Magnetic Grille	Yes
Enclosure Finish	Natural veneer
Available Finishes (Enclosure / Grille)	Walnut / Natural Linen Black Ash / Black Acoustic Fabric Light Ash / Black Acoustic Fabric
Package Contents	Owner's manual, warranty card, bass-reflex port plug

A timeless tribute to the art of sound

The WSH-805 Classic Edition is a tribute to the legacy of Unitra, blending the timeless elegance of natural wood and brass with the power of precision engineering. With its refined design, this special edition highlights the beauty of craftsmanship and the enduring charm of classic hi-fi. A true masterpiece that brings the spirit of Polish engineering to life, this amplifier offers the same remarkable performance as the original, but with a style that stands apart, making it the perfect addition to any discerning audiophile's collection.



POWER AMPLIFICATION SPECIFICATIONS

Output Power – Class AB	80 W (8 Ω) 125 W (4 Ω)
Output Power – Class A	8 W (8 Ω) 16 W (4 Ω)
Total Harmonic Distortion + Noise (THD + N)	<0.0014% (40 W / 8 Ω / 1 kHz)
Frequency Response	6.3 Hz – 110 kHz (–3 dB)
Signal-to-Noise Ratio (SNR)	102 dB
Channel Separation	100 dB (1 kHz)
Intermodulation Distortion	<0.0015% (19 + 20 kHz, 10 W)
Slew Rate	>40 V/μs

INPUTS / OUTPUTS

Audio Inputs	5 × RCA (Line In) 1 × Direct In 1 × Phono (MM / MC) 1 × Balanced (XLR)
Speaker Terminals	8
Pre-Out	Yes
Headphone Output (6.3 mm)	Yes (dedicated head-phone amplifier)

FEATURES

Number of Channels	2
Dual Mono	Yes
Class	A / AB (switchable)
Adjustments	Bass Treble Contour (smart adaptive contour)
Linear (tone control bypass)	Yes
Balance	Yes (no impact on channel crosstalk)
Protection Features	Delayed speaker, output switching, Short circuit protection, DC Output protection, Automatic clipping detection, Over-heat protection

GENERAL

Dimensions	440 × 385 × 143 mm
Mass	18.5 kg
Max. Power Consumption	500 W
Standby Power Consumption	<0.5 W
Available Finishes	Silver / American Walnut Black / American Walnut
Package Contents	Power cord, remote controller with battery, owner's manual, warranty card

Digital precision with analog soul – an external DAC that reveals the beauty of your digital sources

Designed to expand your audio setup, this DAC significantly enhances the performance of any analog amplifier. It's the perfect addition for those seeking uncompromising fidelity and analog-like musicality from digital sources. The clear interface displays essential playback parameters, and broad format support ensures seamless compatibility with all modern digital content.



SIGNAL PROCESSING SPECIFICATIONS

DAC Chip	ES9039MSPRO (8 mono DACs summed to 2 channels)
Max. Sampling Frequency	768kHz
DSD support	Yes
MQA support	Yes
PCM filters	7 selectable filters
Frequency Response	20 Hz – 20 kHz (<0.1dB @ 48kHz)
Total Harmonic Distortion + Noise (THD+N)	<0,0001% (1kHz @ 0dBFS)
Signal-to-Noise Ratio (SNR)	>125dB (1kHz @ 0dBFS)

INPUTS / OUTPUTS

Digital Inputs	2 × USB Type B (galvanically isolated) 1 × Optical 1 × Coaxial RCA 1 × Coaxial BNC 1 × AES/EBU
Analog outputs	1 × RCA 1 × Balanced XLR
Rated output voltage	2.3 V _{RMS} (RCA, XLR)
Trigger (12 V)	In, Out

GENERAL

Dimensions	440 × 369 × 65 mm
Maximum Power Consumption	12 W
Standby Power Consumption	<0,5 W
Power supply type	Linear power supply with toroidal transformer
Available Colors	Silver, Black
Package Contents	Power cable, remote control with battery, user manual, warranty card

A Refined Evolution of the Closed-Box Loudspeaker

The ZGZ-801 MK2 elevates the original design with improved construction and a sculpted front panel that minimizes vibrations and diffractions. A reinforced base with adjustable spikes provides better isolation and stability. Upgraded drivers add depth and presence to the music, enhancing its physicality. All refinements stay true to its timeless aesthetic, while the closed-box architecture continues to ensure precise, controlled performance.



ACOUSTIC PARAMETERS

Frequency Response	52 Hz – 20 kHz (–3 dB)
Sensitivity	91 dB
Impedance	4 Ω (minimum 3.2 Ω)
Power Rating	190 W RMS
System	3-way
Crossover Frequencies	360 Hz, 1800 Hz
Enclosure Type	Sealed
Connector Type	Dual (Bi-Wiring / Bi-Amping)
Woofer	2 × 8" paper cone
Midrange	1 × 6" carbon cone
Tweeter	1 × 1" aluminum-magnesium dome

GENERAL

Dimensions	350 × 389 × 1223 mm (with base plate)
Magnetic Grille	Yes
Enclosure Finish	Natural veneer
Available Finishes	American Walnut Black Ash
Package Contents	Owner's manual, warranty card, base platter with spikes

Contemporary classic with natural presence

The ZGB-601 presents a fresh interpretation of classic Unitra design, merging timeless simplicity with a more contemporary, composed aesthetic. Its calm form mirrors the natural ease of its musical reproduction. The D'Appolito layout enhances clarity and sound dispersion, while the bass reflex design adds depth and vitality without overwhelming the listener. Finished in carefully selected, nature-inspired tones, these loudspeakers suit sophisticated interiors and offer a warm, immersive listening experience.



ACOUSTIC PARAMETERS

System	2-Way, D'Appolito
Enclosure Type	Bassreflex
Midrange	2 × 6" carbon cone
Tweeter	1 × 1" aluminum-magnesium dome

GENERAL

Dimensions	277 × 335 × 1268 mm (with base plate)
Magnetic Grille	Yes
Package Contents	Owner's manual, warranty card, base board with spikes

2.5 mm² oxygen-free copper speaker cables

These speaker cables are made from high-purity oxygen-free copper with a cross-sectional area of 2.5 mm². Designed with Hi-Fi audio equipment in mind, they use two parallel-twisted conductors. The cables are meticulously finished with honey-colored Polish yarn and terminated with gold-plated flexible banana plugs to fit a wide range of terminals. Available in lengths of 2.5 m and 4 m.



Quantity per Package	2
Cable Length	2.5 m / 4 m
Cross-Sectional Area	2.5 mm ²
Material	Oxygen-free copper (OFC)
Operating Temperature	0°C to 80°C
Wire Resistance	0.0072 Ω/m
Conductor Type	Parallel-twisted conductors
Filler	Flexible PVC compound
Termination	Gold-plated flexible banana plugs to fit a wide range of terminals
Inner Jacket	PVC compound

KG-40

4 mm² oxygen-free copper speaker cables

These speaker cables are made from high-purity oxygen-free copper with a cross-sectional area of 4 mm². Designed with Hi-Fi audio equipment in mind, they use two parallel-twisted conductors. The cables are meticulously finished with honey-colored Polish yarn and terminated with gold-plated flexible banana plugs to fit a wide range of terminals. Available in lengths of 2.5 m and 4 m.



Quantity per Package	2
Cable Length	2.5 m / 4 m
Cross-Sectional Area	4 mm ²
Material	Oxygen-free copper (OFC)
Operating Temperature	0°C to 80°C
Wire Resistance	0.0049 Ω/m
Conductor Type	Parallel-twisted conductors
Filler	Flexible PVC compound
Termination	Gold-plated flexible banana plugs to fit a wide range of terminals
Inner Jacket	PVC compound

Turntable test vinyl record – Standard Edition

This LP is designed for verifying turntable and cartridge adjustments. Although it was created with Unitra products in mind, it is compatible with any turntable available on the market. The package includes a vinyl record with two sides (A and B), serving both as a calibration tool and as a medium with test audio tracks.



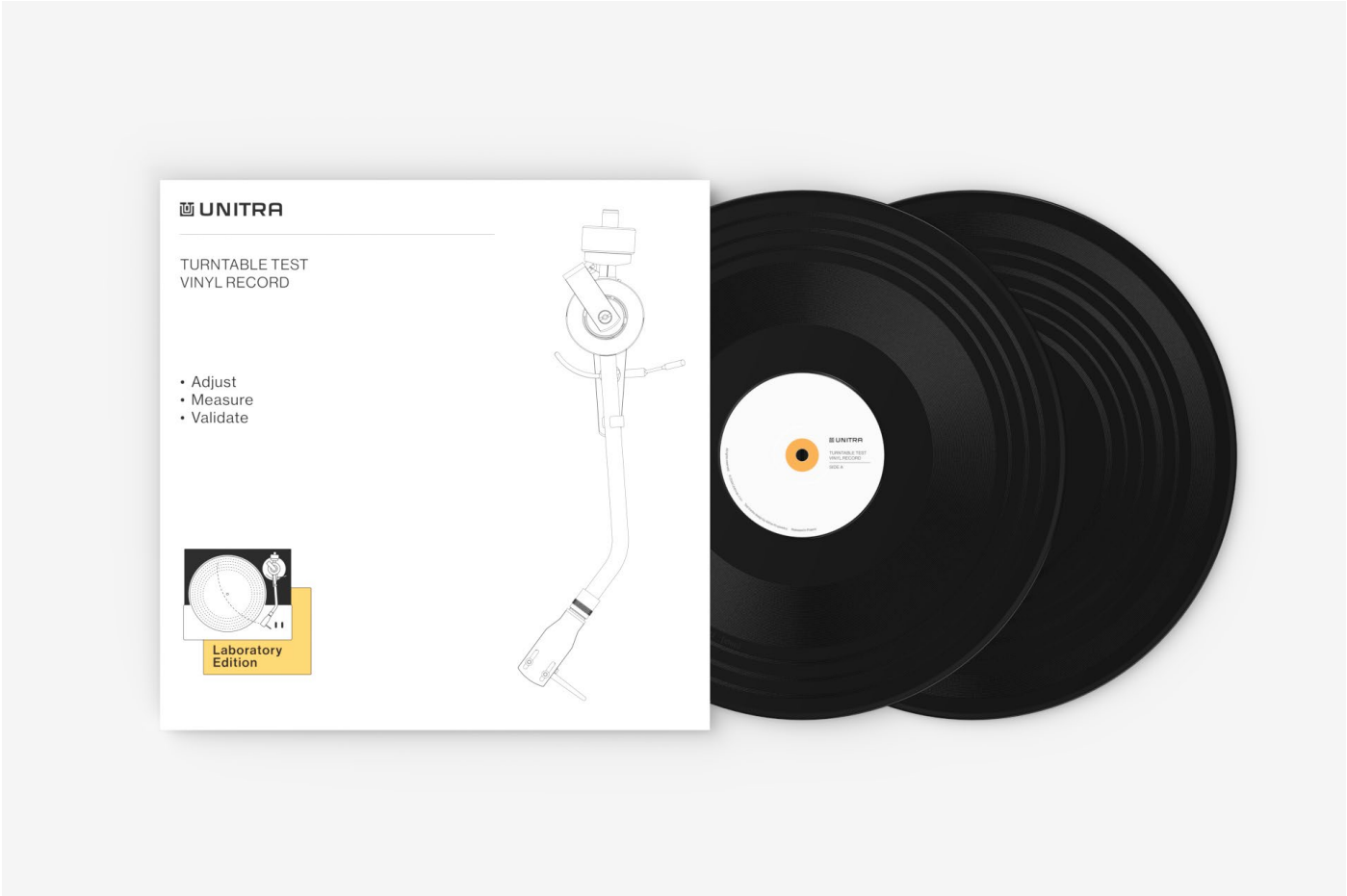
Number of LPs	1
Size	12"
Playback Speed	33⅓ RPM
Weight	180 g
Type	Picture disc
Package Contents	Tonearm alignment instructions, Cartridge Alignment Protractor

SIDE A
This side contains a series of frequency test signals ranging from 20 Hz to 20 kHz, which can be used to analyze and plot the cartridge's response curve at different volume levels. For more accurate measurements, an oscilloscope can be used with one of the tracks.

SIDE B
This side has a smooth surface for testing the tracking (anti-skating) force and an empty groove for testing tonearm isolation.

Turntable test vinyl record – Laboratory Edition

This product is a professional-grade calibration tool that meets the essential standards for precise turntable testing. The package contains two black vinyl records, each featuring a specific set of tracks for turntable and cartridge adjustments.



Number of LPs	2
Size	12"
Playback Speed	33⅓ RPM
Weight	2 x 140 g
Type	Black Vinyl
Package Contents	Tonearm alignment instructions, Cartridge Alignment Protractor

SIDE A This side contains a series of frequency test signals ranging from 20 Hz to 20 kHz, which can be used to analyze and plot the cartridge's response curve at different volume levels. For more accurate measurements, an oscilloscope can be used with one of the tracks.
SIDE B This side has a smooth surface for testing the tracking (anti-skating) force and an empty groove for testing tonearm isolation.
SIDE C This side contains standard signals for testing wow and flutter (3150 Hz), a 1 kHz reference tone, and test signals recorded in one channel only to facilitate the evaluation of channel separation and playback stability.
SIDE D This side features a series of frequency and signal level tests for a detailed analysis of response curves and anti-skating settings. The long bandwidth test (20 Hz to 15 kHz) and the isolation tests with varying intensity levels make it easier to calibrate and evaluate the performance of the tonearm and cartridge.

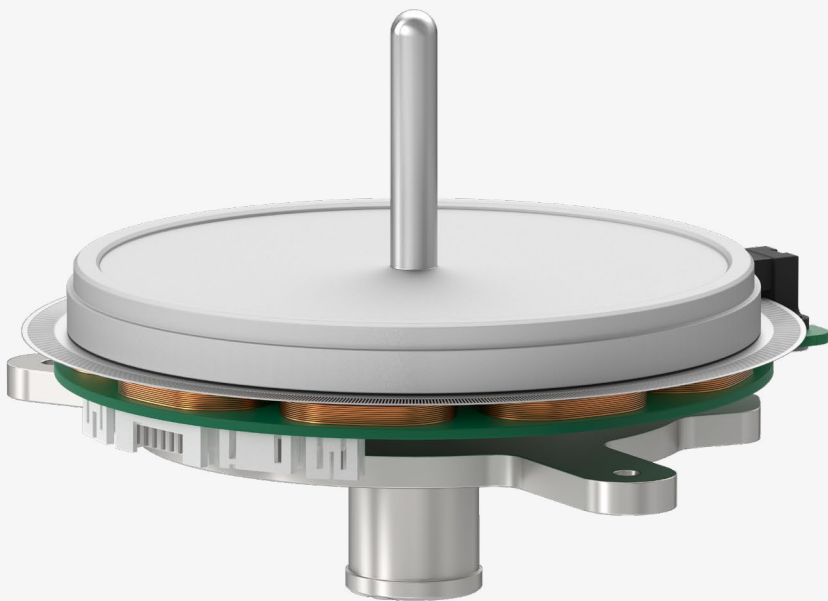
Solutions for professionals





Direct Drive Module

The unique NB1 drive, developed by Unitra for a new generation of turntables, is a direct-drive system in which the motor torque is transmitted directly to the sub-platter. This type of drive enables perfect rotational speed control, which, in combination with a specially developed Unitra control algorithm, results in significantly reduced wow and flutter – meaning no audible disturbances caused by speed fluctuations.



Type	Direct Drive
Motor Type	Air-core brushless DC motor
Speed Control	Digital controller
Feedback System	Three Hall sensors and an optical encoder with a 720-slot encoder disk
Rated Speed	33⅓ RPM, 45 RPM
Wow & Flutter	<0.08 %
Maximum Supported Platter Weight	6.5 kg
Bearing	Stainless steel spindle, bronze bushing
Power Supply	Linear power supply with two output voltages – one for the digital section, the other for motor power

Stability Without Calibration
A complete power supply circuit is included with the drive unit.
The NB-1 drive requires no calibration or adjustment of nominal speed. Its digital section uses two feedback loops — magnetic and optical — to monitor the position and speed of the sub-platter, enabling precise rotational control.
Unlike commonly available switching solutions, the power supply is linear, resulting in significantly lower interference potential. Additionally, the digital and motor-driving sections are powered via separate transformer taps for enhanced stability and performance.

Tonearm

The Unitra R-10 is a custom-designed J-type tonearm used in our modern turntables. It is now also available as a standalone component for anyone looking to enhance their own setup with Unitra's proven precision.



Material	Aluminum
Bearing System	Two pairs of bearings on tapered pivots
Effective Length	228.22 mm
Mounting distance (pivot to spindle)	210 mm
Adjustable Tonearm Height	Yes
Supported Cartridge Mass	3 – 12 g
Effective Mass	18.5 – 22 g

The design is inspired by the classic tonearm of the legendary Unitra Adam, but was completely redesigned to meet today's quality and precision standards. The arm is made of high-strength 6082 aluminum alloy, which is characterized by its mechanical stability and durability. Precision pivot bearings from NSK (Japan) are used on both axes, ensuring smooth movement and a long service life.

The tonearm can be mounted on turntables that allow for drilling mounting holes in the chassis. Mounting hardware (screws, etc.) is not included, as the installation method may vary depending on the design; for example, wood screws or metric screws with nuts are used.

Mounting distance (pivot to spindle): 210 mm. The turntable chassis should support this distance to ensure correct geometry and precise cartridge tracking.

Notes

[illegible]



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