

# Product catalog

2024



# THE BEAUTY OF POLISH ENGINEERING

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.

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.

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.

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.



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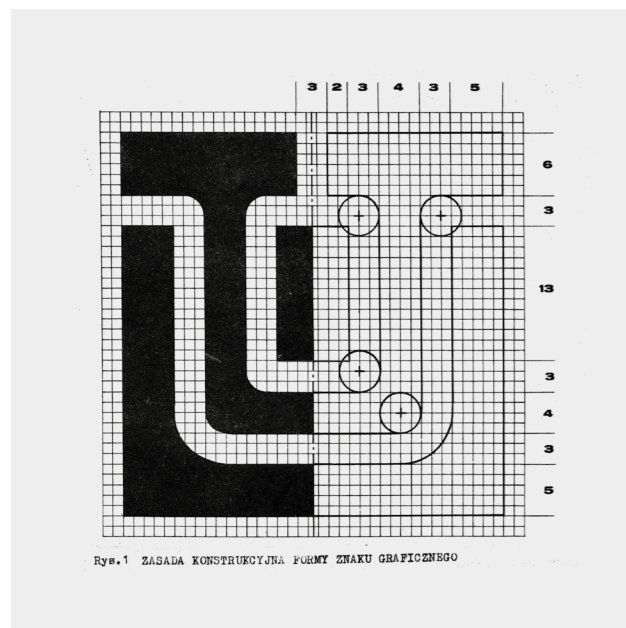
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# History

Unitra, established in 1961, once boasted 28 manufacturing companies and employed 100,000 people. Despite political changes, it survived and remains operational. In 2021, Unitra S.A. partnered with investor Michał Kiciński to form Unitra sp. z o.o., tasked with developing new audio products while preserving 20th-century traditions and embracing modern sustainability principles. The company's success is attributed to its large engineering team, comprising over 30 experts driving innovation in audio technology. The organization consists of three key engineering teams responsible for mechanical engineering, software engineering and electronic engineering.

It is the combination of these teams' skills and experience that makes it possible to create highly advanced and critically acclaimed hi-fi audio products. "Our engineering team is more than just a group of employees, it is the backbone of our company and the heart of our product design efforts. Their commitment, knowledge and experience are crucial to our success," says Adrian Krupowicz, Head of Engineering and Member of the Management Board at Unitra.





# What distinguishes us as a brand?



## Timeless

We wanted to create products that will stay with you for decades. That's why we were inspired by the 1970s, which was a golden age for stereo audio technology around the world. The canon of the analog stereo amplifier was then created, which, with minor changes, has survived to this day. We decided not to compromise and take directly from the source - hence the timeless appearance of, among others, our flagship model of the WSH-805 integrated amplifier.

## Unique interface

The interface of the WSH-805 amplifier using tilt indicators and bistable switches in a new version in our patented automated version – it is timeless beauty with the addition of functionality and convenience.

Another unique solution in audio devices is the E Ink display located in the CSH-801 compact disc player. Its pleasant natural look of a sheet of paper ensures excellent visibility during the day, and the pleasant, warm backlight increases the pleasure of listening to music in the evening.

The analog interface is intended to encourage users to physically interact with the device, hence the many control elements on the panel. They all put up a nice and significant amount of resistance. One of them, very characteristic of the entire product line, is the lever switch. In a standard way, it allows mechanical switching and changing the device state.

## The warmth and analog sound

We live in a world of digital audio, whether we like it or not. However, we still believe that it is on analog media, such as gramophone records, that music "with soul" is found. Analog sound is often perceived as more warm and natural compared to digital sound. This phenomenon is often due to characteristics of analog signal processing, such as subtle harmonic distortion, which can add depth and character to the sound. Unitra produces analog devices.





# Warranty

## Your sound choice – our quality

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 Warranty

Applies to:

- ZGZ-801
- ZGB-401

### 2 Years Warranty

Applies to electronic products:

- WSH-805
- CSH-605
- GSH-630
- GSH-801
- KG25
- KG40







# Award

In 2023, Unitra received the Red Dot award for the design of the WSH-805 amplifier. It was appreciated for its timeless design, minimalist elegance and sustainable production. Red Dot is one of the most prestigious awards in the world of design, considered to be an indicator of the highest class and quality.



reddot winner 2023





# Products







## WSH-805

**UNITRA**

### Integrated stereo (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 headphone 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, Overheat 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 (available from Q4 2024)

### Stereo Integrated Amplifier

The WSH-605 is an integrated stereo amplifier offering Class AB output power of 70 W (8 Ω) and 110 W (4 Ω), ensuring excellent sound quality. With a variety of audio inputs and outputs, including 4 stereo RCA inputs, 2 coaxial inputs, 2 optical inputs and 1 phono input, you have full control over your sound.



#### POWER AMPLIFICATION SPECIFICATIONS

Output Power – Class AB	70 W (8 Ω) 110 W (4 Ω)
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#### INPUTS / OUTPUTS

Audio Inputs	4 x RCA (Live In) 2 x Coaxial 1 x Phono (MM) 2 x Optical
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Speaker Terminals	4
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Pre-Out	Yes
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Headphone Output (6.3 mm)	Yes (dedicated headphone amplifier)
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#### FEATURES

Number of Channels	2
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Dual Mono	Yes
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Class	AB
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Adjustments	Bass Treble
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Linear (tone control bypass)	Yes
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Balance	Yes (no impact on channel crosstalk)
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#### FEATURES

Protection Features	Delayed speaker output switching Short circuit protection DC Output protection Automatic clipping detection Overheat protection
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#### GENERAL

Dimensions	440 × 372 × 104 mm
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Mass	18.5 kg
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Maximum Power Consumption	430 W
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Standby Power Consumption	<0.5 W
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Available Finishes	Silver, Black
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Package Contents	Power cord, remote controller with battery, owner's manual, warranty card
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## CSH-801

### 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 (with a future update)

#### 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 <sub>RMS</sub> 3000 mV <sub>MAX</sub>
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-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.



### TONEARM

Model	Unitra R10
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 NB1
Type	Direct
Motor Type	Air-core brushless DC motor
Speed Control	Digital controller
Rated Speed	33 1/3 RPM, 45 RPM

### OUTPUTS

Analog	Yes (RCA + GND)
Digital	No

### GENERAL

Dimensions (dust cover closed)	440 × 384.5 × 151.5 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	Goldring E1 (Red, MM)
Package Contents	Cartridge, power cord, 2 × RCA phono cable, owner's manual, warranty card



# GSH-801

## 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 R10
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 NB1
Type	Direct Drive
Motor Type	Air-core brushless DC motor
Speed Control	Digital controller
Rated Speed	33 $\frac{1}{3}$ RPM, 45 RPM

### OUTPUTS

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

### GENERAL

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	Goldring E3 (Violet, MM)
Package Contents	External power supply, power cord, DIN 5 pho-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 (-3 dB)	52 Hz – 20 kHz
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

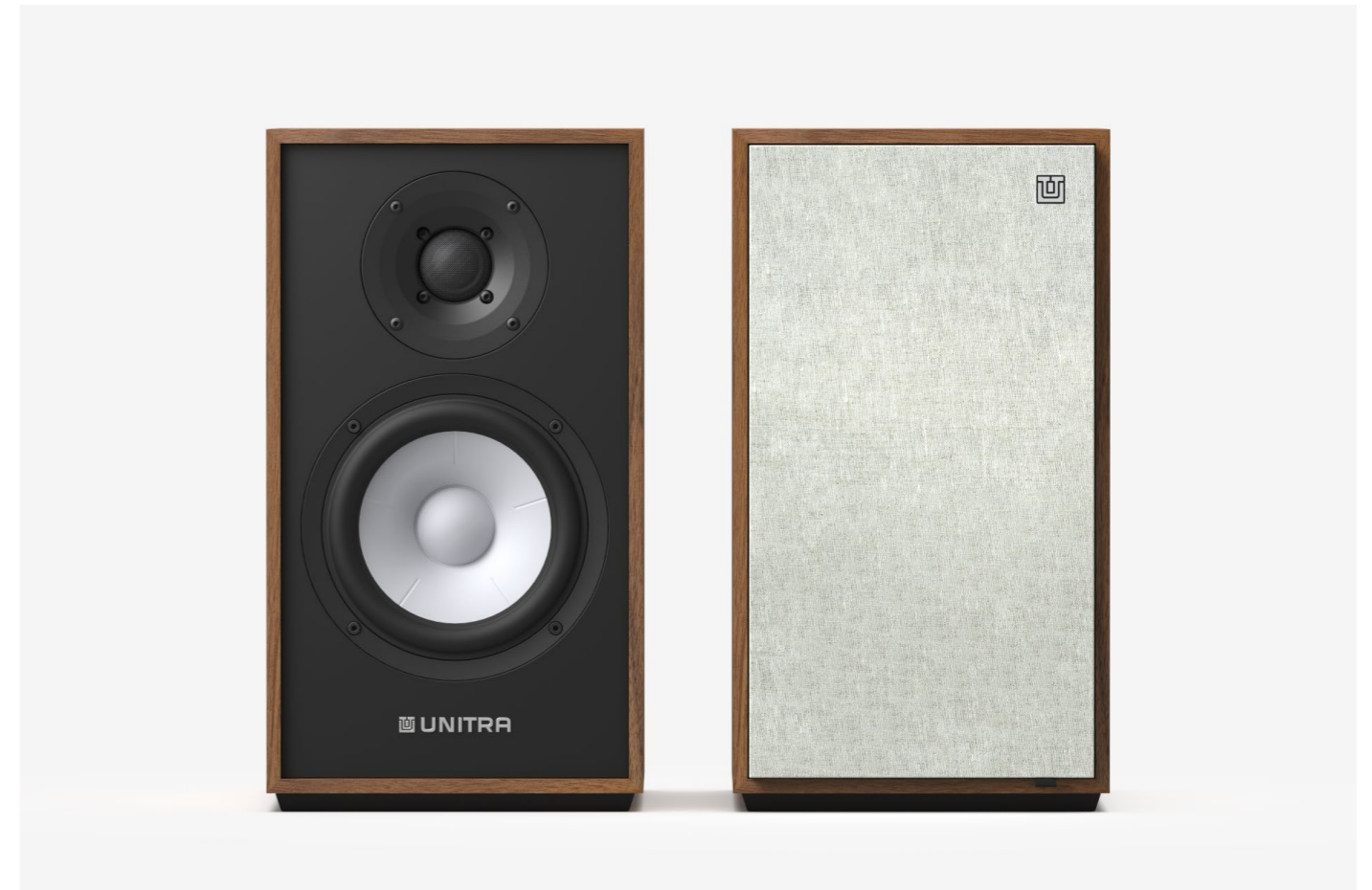




## ZGB-401

### 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 book-shelf form factor.



#### ACOUSTIC PARAMETERS

Frequency Response (-3 dB)	60 Hz to 20 kHz
Sensitivity	87 dB (2.83 V)
Impedance	4 Ω (minimum 3.5 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	380 × 280 × 210 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



## KG25



### 2.5 mm<sup>2</sup> oxygen-free copper speaker cables

These speaker cables are made from high-purity oxygen-free copper with a cross-sectional area of 2.5 mm<sup>2</sup>. 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 <sup>2</sup>
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

## KG40



### 4 mm<sup>2</sup> oxygen-free copper speaker cables

These speaker cables are made from high-purity oxygen-free copper with a cross-sectional area of 4 mm<sup>2</sup>. 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 <sup>2</sup>
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





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