

Audio range







See more. Hear more.

The Optoma NuForce audio range is designed for people that care about sound. They are built from premium quality components combining a sleek design with outstanding audio quality.

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High resolution in-ear headphones

The High Resolution certified HEM series set a new standard for accuracy, speed and comfort. Designed for professionals, the HEM8 in-ear monitors deliver spectacular detail and a strong bass. Each earpiece has four individual drivers.

Number of driver(s)

8

Driver type High resolution Knowels™ balanced armature

Frequency range 10 - 40.000Hz

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High resolution in-ear headphones

The High Resolution certified HEM series set a new standard for accuracy, speed and comfort. The HEM6 are perfectly balanced for professional use on stage as well as music on the go. Each earpiece has three individual drivers.

HEM6

HEM4



High resolution in-ear headphones

The High Resolution certified HEM series set a new standard for accuracy, speed and comfort. Designed for professionals and audio enthusiasts, the HEM4 reflects sound better than most in its class. Each earpiece has two individual drivers.

Number of driver(s)	N 2
Driver type High resolution Knowels™ balanced armature	E H
Frequency range	F 2

Number of driver(s)

Driver type High resolution Knowels™ balanced armature

Frequency range 18 - 40,000Hz



High resolution in-ear headphones

The High Resolution certified HEM series set a new standard for accuracy, speed and comfort. The HEM2 are ideal for home musicians and audio enthusiasts. Each earpiece contains a single full range driver.

Number of driver(s) 2

Driver type High resolution Knowels™ balanced armature

Frequency range 20 - 40,000Hz





Wireless Bluetooth® in-ear headphones

The BE6i takes the same stylish design as the BE6 but offers an incredible battery life of up to 8 hours. They are also IPX5 certified for greater protection from rain and sweat. The BE6i are the only Bluetooth[®] in-ear headphones to be fully crafted from aluminium, which provides crystal-clear sound and elegant design in a lightweight form-factor, making them durable and attractive for all lifestyles.

Bluetooth Bluetooth 4.1, aptX™, supported AAC

Impedance 20 Ohm

Battery life up to 8 hours













Your ultimate workout partner

Fitness-focused in-ears headphones Stay motivated when you're pushing yourself to the limits with the BE Sport3 in-ear Bluetooth headphones. The lightweight, durable design and custom ear tips keep them securely in place no matter how vigorous your workout – without the distraction of wires. In addition, wireless means a future fit to smartphones that don't include an audio jack.

Bluetooth

Bluetooth 4.1, aptX[™], supported AAC

Impedance

20 Ohm

Battery life up to 10 hours





NE800M



Superior performance in-ear headphones

The NE800M introduce music lovers and gamers to the next level of sound. These in-ear headphones include a sound nozzle machined from solid brass to minimise vibration and optimise the sound. Coupled with an ultra-lightweight and durable carbon fibre chassis, the NE800M's exceptional acoustic design brings out all of the detail in your music.

Impedance	Im
16 Ohm	16
Maximum SPL	M a
120dB	120
Sensitivity	Se
118dB +/-3dB	113

NE750M



High performance in-ear headphones

mpedance 6 Ohm

Maximum SPL 20dB

Sensitivity 13dB +/-3dB







Hi-Res



Super small DSD DAC and headphone amp

The uDAC5 is Optoma's first DSD high resolution DAC. It will play any audio file at any resolution. It combines a robust headphone amplifier which significantly transforms any computer's sound output. Ideal for enthusiasts and music lovers who wish to listen to the highest quality audio content. Available with drivers for PC and MAC.

Connections

Input: USB. Output: RCA L+R/digital coax, 3.5mm with volume control

Maximum SPL

Resolution Up to 384kHz PCM and DSD256

Super small mobile DAC and headphone amp

The uDAC3 digital to analogue converter (DAC) and combined headphone amplifier significantly upgrades any computer's sound output. Ideal for music lovers and gamers, this tiny device connects to the computer's USB port and improves, amplifies and converts digital audio files from a PC or Mac.

Connections

Input: USB. Output: RCA L+R/digital coax, 3.5mm with volume control

Power supply Via USB connection

Resolution 96kHz / 24 bit HA200



High performance headphone amp

The HA200 high performance headphone amp is capable of driving any set of headphones with more detail and greater scale. The HA200 uses a purist Class-A design in a constant current configuration and offers true single ended output performance. For even greater performance the HA200 provides balanced mode operation with increased accuracy.

Connections

IEC mains

Input: RCA L+R, XLR Output and control 6.3mm, XLR Power supply



Bluetooth receiver

Free the music from your smartphone, tablet or computer. Using the latest aptX and AAC technology, the BTR100 is an advanced Bluetooth hub for all mobile devices. Easy to synchronize and connect, you can wirelessly stream CD quality digital audio, via Bluetooth, directly to your home stereo system.

Bluetooth

aptX supported by AAC

Power supply External

Output 3.5mm, optical

Specifications

	In-ear headphones			
Model name	НЕМ8	HEM6	HEM4	
	(Contraction)	6		
Product category	Mobile	Mobile	Mobile	
Product type	High resolution in-ear headphones	High resolution in-ear headphones	High resolution in-ear headphones	
Connector type	3.5mm	3.5mm	3.5mm	
Cable length (m)	1.38 (OFC), 1.38 (Mic)	1.38 (OFC), 1.38 (Mic)	1.38 (OFC), 1.38 (Mic)	
Driver	8 high-res balanced armature	6 high-res balanced armature	4 high-res balanced armature	
Impedance (Ohm)	32	37	38	
Frequency response	10Hz - 40kHz	18Hz - 40kHz	18Hz - 40kHz	
Sensitivity (dB)	124dB +/-3dB	113dB +/-3dB	113dB +/-3dB	
Weight (kg)	0.0058	0.0058	0.0052	
Standard accessories	2x 1.38m detachable cables, 3.5mm - 6.3mm gold-plated adapter, 5x pairs soft silicone ear tips (XS, S, M, L, XL), 2x pairs Comply™ memory foam ear tips (M, L), brush / cleaning tool, lapel clip, waterproof display case, carrying case	2x 1.38m detachable cables, 3.5mm - 6.3mm gold-plated adapter, 5x pairs soft silicone ear tips (XS, S, M, L, XL), 2x pairs Comply™ memory foam ear tips (M, L), brush / cleaning tool, lapel clip, waterproof display case, carrying case	2x 1.38m detachable cables, 3.5mm - 6.3mm gold-plated adapter, 5x pairs soft silicone ear tips (XS, S, M, L, XL), 2x pairs Comply™ memory foam ear tips (M, L), brush / cleaning tool, lapel clip, waterproof display case, carrying case	
Colour	Black	Black	Blue	
Suggested products	uDAC5, HA200	uDAC5, HA200	uDAC5, HA200	

In-ear headphones

HEM2	BE6i	BE Sport3	NE800M
6	T	* **	
Mobile	Mobile	Mobile	Mobile
High resolution in-ear headphones	Wireless in-ear headphones	Wireless in-ear headphones	In-ear headphones
3.5mm	Bluetooth	Bluetooth	3.5mm (4-pole stereo)
1.38 (OFC), 1.38 (Mic)	0.561	1.37	1.37
2 high-res balanced armature	10mm (patented)	Dynamic / 6mm	Dynamic / 8.6mm
26	20	16	16
20Hz - 40kHz	20Hz - 20kHz	20Hz - 20kHz	10Hz - 40kHz
110dB +/-3dB	95 +/-3 at 1KHz	102 +/-3 at 1kHz	113 +/-3
0.0034	0.019	0.015	0.018
2x 1.38m detachable cables, 3.5mm - 6.3mm gold-plated adapter, 5x pairs soft silicone ear tips (XS, S, M, L, XL), 2x pairs Comply™ memory foam ear tips (M, L), brush / cleaning tool, lapel clip, waterproof display case, carrying case	4 x pairs proprietary NuForce silicone ear tips (XS, S, M, L), 2 x pairs Comply foam ear tips (M, L), 1 x pair ear wings, 1 x USB charging cable (USB A-USB micro), 1 x carry case 1 x cable management clip, basic user's guide, safety booklet	3x pairs soft silicon ear tips (3x colours, S/M/L), 3x Ear Wings (3x colours, ,2x sizes M/L), 1x pair custom SpinFit dual ribbed ear tips, 1x cable tensioner, carrying pouch, 1x USB charging cable, basic user's manual, safety booklet	2 pairs Comply earbuds (M, L), 3 pairs silicone earbuds (S, M, L), carry case
Red	Gold or Grey	Gun metal grey / Rose gold	Black / Gold
uDAC5, HA200	-	-	uDAC5, uDAC3, HA200





Specifications

	In-ear headphones		Amplifiers		DACs	
Model name	NE750M	Model name	HA200	Model name	uDAC5	uDAC3
						0.0
Product category	Mobile	Product category	Home stereo	Product category	Mobile	Mobile
Product type	In-ear headphones	Product type	Headphone amplifier	Product type	DSD portable DAC	Portable DAC
Connector type	3.5mm (4-pole stereo)	Connections - input	RCA L+R, XLR	Connections - input	USB	USB
Cable length (m)	1.37	Connections - output	XLR, 6.3mm (stereo jack)	Connections - output	RCA L+R, digital coax, 3.5mm	RCA L+R, digital coax, 3.5mm
river	Dynamic / 8.6mm	Connections - control	-	Headphone power output	140mW x 2 at 32 Ohm	80mW x 2 at 16 Ohm
npedance (Ohm)	16	Power output	383mW at 100 Ohm, 129mW at 300 Ohm,	Volume control	Rotory	Rotory
requency response	20Hz - 20kHz			Maximum sampling rate (kHz)	384kHz/DSD256	96
ensitivity (dB)	113 +/-3	Peak output power	600mW at 16 Ohm, 937mW at 32 Ohm,	Bit resolution (bit)	24	24
Veight (kg)	0.014		530mW at 100 Ohm, 180mW at 300 Ohm, 96.3mW at 600 Ohm	Native bit rate	16, 24	16, 24
tandard accessories	3 pairs silicone earbuds (S, M, L), carry case	Recommended headphone impedance (Ohm)	32 to 600	Frequency response	20 - 25kHz	20 - 25kHz
	Balanced mode	200 Ohm, 14.6Vrms	Signal to noise ratio (SNR) (dB)	112	98	
		Frequency response	10Hz - 20KHz	Power supply	USB bus powered, 1A/5V	USB powered, 80mA/5V
		Signal to noise ratio (SNR) (dB)	>106	Wireless type	-	-
Colour	Black / Red	Power supply	115V - 230V, 50 - 60Hz	Weight (kg)	0.100	0.090
Suggested products uDAC5, uDAC3, HA200	uDAC5, uDAC3, HA200	Weight (kg)	2.2	Dimensions (W x D x H mm)	68 x 45 x 21	68 x 38 x 21
		Dimensions (W x D x H mm)	217 x 231 x 44	Standard accessories	USB cable	USB cable
		Standard accessories	Power cable	Colour	Silver	Black
		Colour	Black	Suggested products	HEM series	NE800M, NE750M

HEM series

Suggested products



Specifications

	Bluetooth	
Model name	BTR100	
Product category	Home stereo	
Product type	Bluetooth receiver	
Connections - output	Optical, 3.5mm stereo	
Frequency response	20Hz-20kHz	
Sensitivity (dB)	-84	
Signal to noise ratio (SNR) (dB)	>90	
Power supply	5V 1A	
Operating range (m)	10	
Supported CODECs	aptX®, SBC, AAC	
Weight (kg)	0.103	
Dimensions (W x D x H mm)	157 x 155 x 38	
Standard accessories	Power supply, 3.5mm - 3.5mm cable, 3.5mm - RCA L+R	
Colour	Black	
Suggested products	-	



Social

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96/24

Higher than CD resolution with greater amounts of detail and bandwidth, resulting in a greater level of the original recording with very substantial and positive effect on the quality of bass and clarity.

192/24

Very high resolution audio available in two major formats. This offers the purest form of the music as captured in the studio. It is in fact the standard used by professionals to record most music.

Balanced armature driver

A balanced armature driver is able to reach frequencies of up to 40,000Hz for rich bass and clear highs. It uses a magnet to move a small diaphragm, resulting in low distortion levels for spacious, detailed and fatigue-free sound at any volume level.

Bluetooth®

Bluetooth smart technology is a wireless communications system intended to replace the cables connecting many types of devices such as mobile phones and headphones.

DAC

Digital to analogue converter, designed to translate digital signal of various formats into the analogue sound that is heard from a speaker or headphones.

DSD

Direct Stream Digital (DSD) audio is able to capture the original sound created by musicians in a professional studio. It is offering a range of sound and frequencies far greater than that of a CD. DSD offers a staggeringly realistic recreation of the originally recorded notes.

Hi-Res Audio

High resolution audio stands for audio formats that contain larger quantity of data and greater range than that of CD quality audio. Music made of high resolution audio can be heard from discs and downloads.

Integrated amp

Combines the ability to connect and select a source, change volume levels and output the signal sent from source as sound via a connection to speakers.

LPCM

A form of PCM files typically used to code high resolution movie sound tracks that are greater than CD audio quality.

PCM

Method used to represent digitised analogue signals; the most common form of digital audio. Used for CD replay, movie sound track and audio download files of various types all the way from MP3 to 192/24 audio files.

Pulse Width Modulation

A modern circuit that allows very efficient electrical design, typically known as Class-D amp, resulting in small compact structures that are able to provide a great deal of power, whilst maintaining lower power consumption when compared to traditional amp design.

RCA

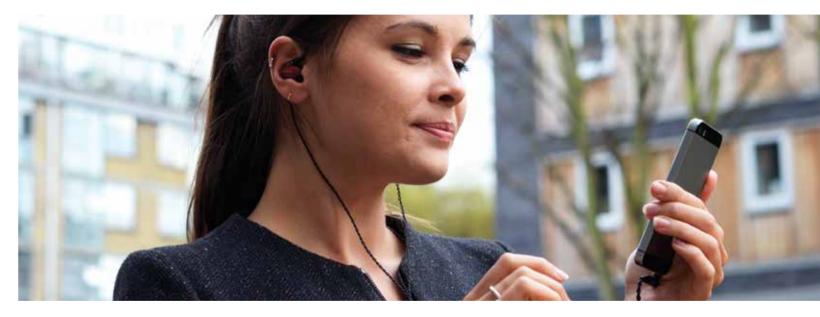
The most common analogue speciality audio connection which is also known as "Phono" and "Single-ended" connection.

S/PDIF

This connection is designed to offer easy digital connection between audio components. Able to send high definition audio and mainly used in professional and broadcasting industry with BNC termination.

Toslink

Optical fibre connection designed to transmit digital audio files. Commonly found on almost every home audio entertainment device. Able to transmit very high resolution signal as well as all Dolby and DTS HD format and many other PCM and LPCM audio formats.





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