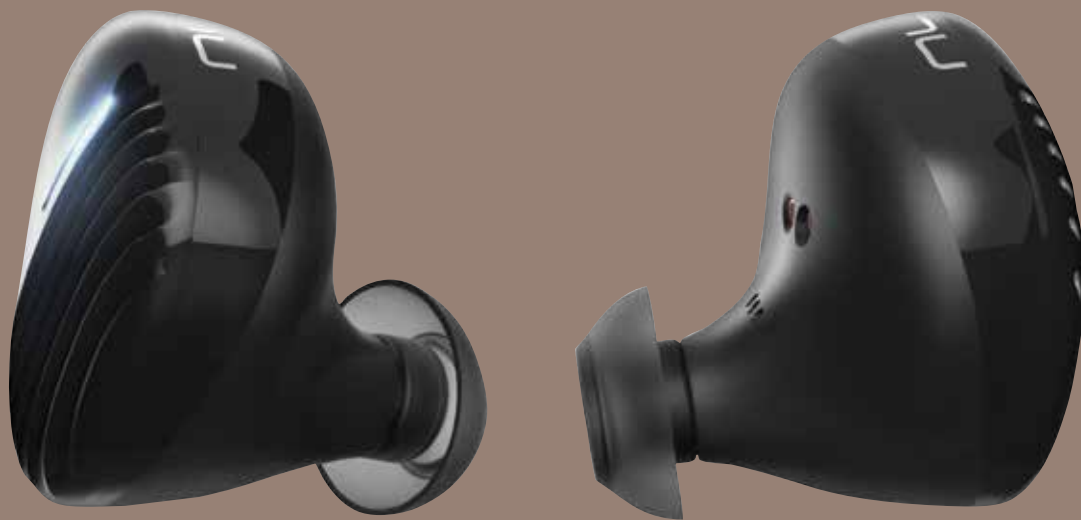




| Audio range
Spring 2018



NU FORCE



HEM **Dynamic**

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.

optoma.com



Be Free8



Premium true wireless Bluetooth in-ear headphones

The BE Free8 true wireless earbuds have no cables or neckband for unrestricted movement at any time. Designed for clear, uninterrupted audio, the protective carry case doubles up as a charger - allowing users to stay connected for non-stop listening on the go. Equipped with advanced audio coding and AAC, aptX LL and NFMI technology, they deliver crystal clear stereo sound and stable wireless connection with no lag.

Bluetooth

Bluetooth 4.1, aptX, supported AAC

Impedance

32 Ohm

Battery life

up to 16 hours





BE6i

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





BE Sport3



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

16 Ohm

Battery life

up to 10 hours



BE2



Wireless Bluetooth in-ear headphones

Stay connected with the BE2 Bluetooth in-ear headphones offering an incredible battery life of up to 10 hours. The lightweight, durable design and custom ear tips keep them securely in place. They are also IPX5 certified for greater protection from rain and sweat. In addition, wireless means compatibility with smartphones that don't include an audio jack.

Bluetooth

Bluetooth 4.1, supported AAC

Impedance

16 Ohm

Battery life

up to 10 hours





HEM8



HEM6



HEM4



HEM2



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

High resolution in-ear headphones

The HEM6 are perfectly balanced for professional use on stage as well as music on the go. Each earpiece has three individual drivers.

Number of driver(s)

6

Driver type

High resolution Knowels™ balanced armature

Frequency range

18 - 40,000Hz

High resolution in-ear headphones

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)

4

Driver type

High resolution Knowels™ balanced armature

Frequency range

18 - 40,000Hz

High resolution in-ear headphones

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



HEM Dynamic



High resolution in-ear headphones

The High Resolution certified HEM Dynamic sets a new standard for accuracy, speed and comfort. Designed for music lovers these innovative in-ear headphones offer incredible audio reproduction. Using a balanced dynamic micro driver the HEM Dynamic in ear monitors reveal a wider frequency range for the ultimate listening experience.

Number of driver(s)

2

Driver type

6mm

Frequency range

20 - 40,000Hz

uDAC5



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

Power supply

Via USB connection

Resolution

Up to 384kHz PCM and DSD256



uDAC3



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

BTR100



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	BE Free8	BE6i	BE Sport3
			
Product category	Mobile	Mobile	Mobile
Product type	Premium true wireless Bluetooth in-ear headphones	Wireless Bluetooth in-ear headphones	Wireless Bluetooth in-ear headphones
Connector type	Bluetooth	Bluetooth	Bluetooth
Cable length (m)	-	0.561	1.37
Driver	5.8mm	10mm (patented)	Dynamic / 6mm
Impedance (Ohm)	20	20	16
Frequency response	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz
Sensitivity (dB)	92 +/-3 at 1kHz	95 +/-3 at 1kHz	102 +/-3 at 1kHz
Weight (kg)	0.011	0.019	0.015
Standard accessories	5x pairs of SpinFit silicone tips CP100XS/S/M and CP350S/M, microUSB charging cable, charging case, basic user manual, safety instruction	4x 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
Colour	Black	Gold / Grey	Gun metal grey / Rose gold
Suggested products	-	-	-
Battery life	4 hours (earbuds), up to 16 hours (charging case)	8 hours	10 hours
IP rating	IPX5	IPX5	IP55



In-ear headphones			
BE2	HEM8	HEM6	HEM4
			
Mobile	Mobile	Mobile	Mobile
Wireless Bluetooth in-ear headphones	High resolution in-ear headphones	High resolution in-ear headphones	High resolution in-ear headphones
Bluetooth	3.5mm	3.5mm	3.5mm
1.38 (OFC), 1.38 (Mic)	1.38 (OFC), 1.38 (Mic)	1.38 (OFC), 1.38 (Mic)	1.38 (OFC), 1.38 (Mic)
2 high-res balanced armature	8 high-res balanced armature	6 high-res balanced armature	4 high-res balanced armature
26	32	37	38
20Hz - 40kHz	10Hz - 40kHz	18Hz - 40kHz	18Hz - 40kHz
110dB +/-3dB	124dB +/-3dB	113dB +/-3dB	113dB +/-3dB
0.0034	0.0058	0.0058	0.0052
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	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
Black / White	Black	Black	Blue
-	uDAC5 / uDAC3	uDAC5 / uDAC3	uDAC5 / uDAC3
10 hours	-	-	-
IPX5	-	-	-

Specifications


In-ear headphones

Model name	HEM2	HEM Dynamic
		
Product category	Mobile	Mobile
Product type	High resolution in-ear headphones	High resolution in-ear headphones
Connector type	3.5mm	3.5mm
Cable length (m)	1.38 (OFC), 1.38 (Mic)	1.38 (Mic)
Driver	2 high-res balanced armature	6mm (Dynamic)
Impedance (Ohm)	26	16
Frequency response	20Hz - 40kHz	20Hz - 40kHz
Sensitivity (dB)	110dB +/-3dB	90dB +/-3dB
Weight (kg)	0.0034	0.016
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	Silicone tips: 6x pairs in different sizes (S, M, L), Comply™ tips: T-100 2x pairs in (M, L), carrying pouch, cable clip, velcro, safety guide, earphone cable with microphone
Colour	Red	Crystal white / Charcoal black
Suggested products	uDAC5 / uDAC3	uDAC5 / uDAC3
Battery life	-	-
IP rating	-	-

DACs

Model name	uDAC5	uDAC3
		
Product category	Mobile	Mobile
Product type	DSD portable DAC	Portable DAC
Connections - input	USB	USB
Connections - output	RCA L+R, digital coax, 3.5mm	RCA L+R, digital coax, 3.5mm
Headphone power output	140mW x 2 at 32 Ohm	80mW x 2 at 16 Ohm
Volume control	Rotary	Rotary
Maximum sampling rate (kHz)	384kHz/DSD256	96
Bit resolution (bit)	24	24
Native bit rate	16, 24	16, 24
Frequency response	20 - 25kHz	20 - 25kHz
Signal to noise ratio (SNR) (dB)	112	98
Power supply	USB bus powered, 1A/5V	USB powered, 80mA/5V
Wireless type	-	-
Weight (kg)	0.100	0.090
Dimensions (W x D x H mm)	68 x 45 x 21	68 x 38 x 21
Standard accessories	USB cable	USB cable
Colour	Silver	Black
Suggested products	HEM series	HEM series

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

Keep up to date with all our latest product releases, news and events by following us.



Key definitions

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.



optoma.com