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## Muscle with Finesse

- CLASS XA AMPLIFICATION
- DC SERVO
- TWIN TOROIDAL TRANSFORMERS

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## Perfect Partners

- OPTIMISED FOR EDGE NQ
- LOOP OUT FOR BI-WIRING

## The power to deliver

A pair of Edge M Monoblock Power Amplifiers have the power in reserve to drive even the most demanding of speakers with punch and clarity. Because each 200W Edge M is fully balanced from input to output, they are immune from noisy distortion and free to deliver your music exactly as the artist intended – nothing added, nothing taken away – whatever the volume.



## Demonstration Tracks

At Cambridge Audio we use our ears constantly, both as passionate music lovers and audio professionals looking for test examples. We test our products with all types of content and the following suggestions are our picks for a great demo experience for your customers.

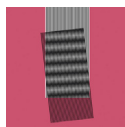
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### HUARACHE LIGHTS

by **HOT CHIP**

Why Make Sense? (2015)

Bass and beats. Give your low range a proper workout with this 2015 track by the indie electronica outfit from Hoxton in London. Edge M delivers all of the power from the rumbling bass line but misses none of the high-end detail that gives the track its sparkle and dynamism.



2

### THERE THERE

by **RADIOHEAD**

Hail to the Thief (2003)

Radiohead are the modern masters of luxurious soundscapes packed full of unusual arrangements and instrumentation. A pair of Edge Ms hooked up to an Edge NQ will release all of that glorious detail with no sacrifice to drive and timing. Just how many guitar tracks do you need on one recording? Lots. You need lots.



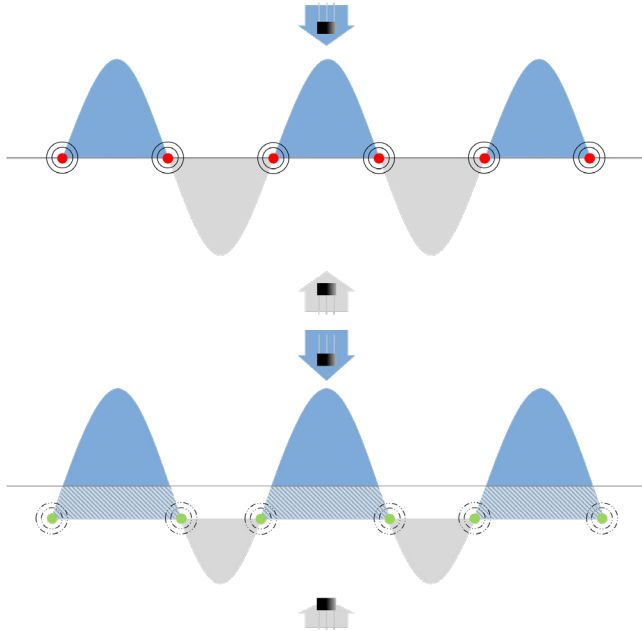
## Great British Sound

What does 'British Sound' mean? To us it's about removing any barriers that might distort or alter the original recording and not adding any of our own flavour. What you hear from our products is a pure and unfiltered 'British' sound – just as the artist intended.



## Muscle with Finesse

As powerful as a pair of Edge M amplifiers can be, they remain remarkably detailed. The sound is finely balanced with a depth and clarity that comes through with every note. We developed the whole Edge system by carefully listening to each component and only choosing the ones that blew us away. Nothing was picked on price or specs. We also took a fresh approach to some age-old hi-fi conundrums...



### CLASS XA AMPLIFICATION

Using standard Class A amplifier technology wasn't going to be efficient enough for Edge M. Instead we added a bias voltage to a traditional Class AB design, reducing distortion to inaudible levels.



In Class AB amplifier design, distortion occurs where the signal passes from one transistor to the other. This is known as the crossover point and if it occurs at zero amplitude it can be audible.

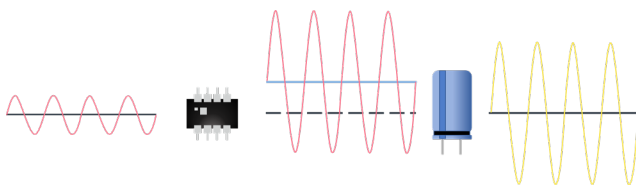


For Class XA, the crossover point is moved so that one set of transistors is off until the signal reaches a loud enough level. This means that for low level signals, the amplifier is essentially operating as a Class A amplifier and it is only when the signal is sufficiently loud enough that the transistors switch over. Any crossover distortion is therefore masked within the signal.

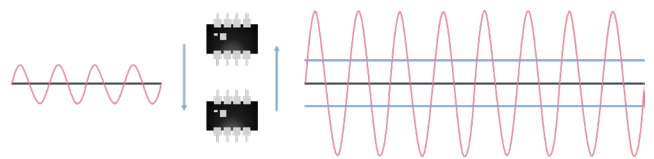
### DC SERVO

During the amplification process, Direct Current is generated as the audio signal is passed through the operational amplifier. This causes a shift in the position of the waveform and, if left in, can overheat the speaker voice coil and cause distortion.

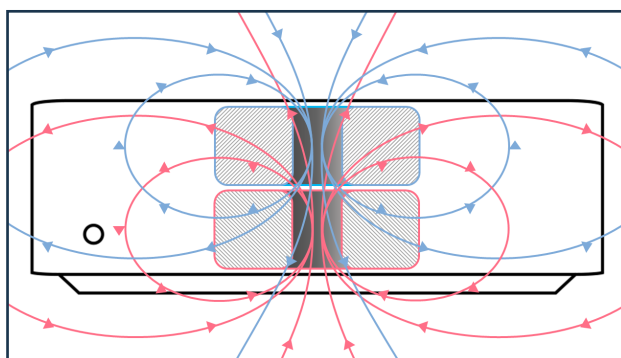
In a conventional hi-fi design, capacitors are used to filter out unwanted DC. Whilst this effectively removes DC, it has the unwanted side effect of colouring the sound, taking it further away from what was originally recorded.



In the Edge range we replace capacitors with a clever DC Servo. The DC Servo measures the amount of DC generated during the amplification process and then injects an equal but opposite amount back into the audio signal. This second dose of DC cancels out the first, leaving the audio signal in the right place with no colouration.



A key engineering principle at Cambridge Audio is to keep the signal path as short as possible. That way we let more of the music through without adding any of our own flavour – the very definition of Great British Sound.



### TWIN TOROIDAL TRANSFORMERS

A key characteristic of toroidal transformers is the ultra-low electro-magnetic field they produce – a lot lower than other types of transformer. Despite this, a small amount of interference is inevitable.

By placing the twin transformers in Edge M back to back and precisely orientating them, we can use the two EM fields to cancel each other out, greatly reducing hum and delivering increased musical detail whatever the volume.

## Perfect partners

Edge systems are designed to work in perfect synchronisation.

### OPTIMISED FOR EDGE NQ

Match a pair of Edge Ms with our most versatile Preamplifier Network player, Edge NQ, to create a hi-fi system with a sound, and a look, unlike anything else.

### LOOP OUT FOR BI-WIRING

Use more than two Edge Ms in your system by utilising the loop out connectors and bi-wiring your speakers.



## Inside Story

We're located in London SE1, right on the doorstep of some of the most creative, exciting developments in the music industry and our products are designed and engineered in-house. Outside work we're musicians, sound engineers and above all music lovers.

Five decades ago our founders had a vision – to create hi-fi systems that delivered the Great British sound into people's homes. Nothing added, nothing taken away.

One of these talented engineers, Professor Gordon Edge, was the brains behind the innovation and design of our first product – the ground-breaking P40 integrated amplifier.

In recognition of our heritage, we developed Edge. The embodiment of Cambridge Audio's signature Great British Sound and the pinnacle of 50 years of Hi-Fi expertise.

Beautifully minimal in its design, each component has a curved extruded aluminium front and floating top plate. It's an extraordinary exterior that's hiding some extraordinary audio engineering inside.

Developing a monoblock power amp isn't quite as simple as just removing a set of speaker terminals and boosting the power.

To make sure that Edge M followed the same sonic footprint as its stereo counterpart, we deployed a fully balanced topology from input to output. This means that each Edge M is immune to noise and distortion no matter how hard you drive it.

We also kept to the same principles that delivered the signature sound of the rest of the award-winning Edge range. Short signal path, proprietary amplification techniques and powerful power supplies.

All of this, together with some cutting edge electronic engineering from our London team, means that Edge M can take its rightful place as a part of our flagship hi-fi system.

## Technical Specification

CONTINUOUS POWER OUTPUT (<1% THD+N)	200W RMS into 8 Ohms 350W RMS into 4 Ohms
THD (UNWEIGHTED):	<0.002% 1kHz at rated power (8 Ohms) <0.02% 20Hz – 20kHz at rated power (8 Ohms)
FREQUENCY RESPONSE (INTO 8 OHM):	<3Hz – >80kHz +/-1dB
S/N RATIO (REF 1W INTO 8 OHM):	>93 dB
S/N RATIO (REF FULL POWER):	>115 dB
GAIN:	28dB (RCA)/ 22dB (XLR)
INPUT SENSITIVITY:	1.7V RMS (RCA) / 3.4V RMS (XLR)
INPUT IMPEDANCES:	balanced 100k Ohm unbalanced 47k Ohm
INPUTS:	Balanced, Unbalanced
OUTPUTS:	Speaker out, Loop out (balanced and unbalanced)
MAX POWER CONSUMPTION:	1000W
STANDBY POWER CONSUMPTION:	<0.5W
DIMENSIONS:	150 x 460 x 405mm (5.9 x 18.1 x 15.9")
WEIGHT:	23.6kg (52.0lbs)



## Related Products

### EDGE NQ PREAMPLIFIER AND NETWORK PLAYER

With a revolutionary preamp circuit-board that reduces interference and an incredibly clean signal path, Edge NQ plays your favourite music with astonishing depth. Stream, cast, plug-in and play to enjoy every note in perfect clarity.



### EDGE A INTEGRATED AMPLIFIER

Edge A is made to celebrate musicality. Riffs, phrases, percussive rolls – take in every detail of your music thanks to its dynamic setup. Effortlessly powerful, but with incredible depth, the overall sound is breath-taking – like you're sat in the recording booth with the musicians.

