

# ARCAM

---

SUMMER 2020









# HERITAGE

ARCAM exists to bring the highest fidelity reproduction of music and movies into people's lives. We are committed to engineering products that deliver a level of audio performance that is so convincing and lifelike, it connects you straight to the emotional power of the music. Established in Cambridge in 1976, we are proud of our excellent track record for innovation and engineering world-class products from the ground up, as well as our reputation for long-term product support and service.

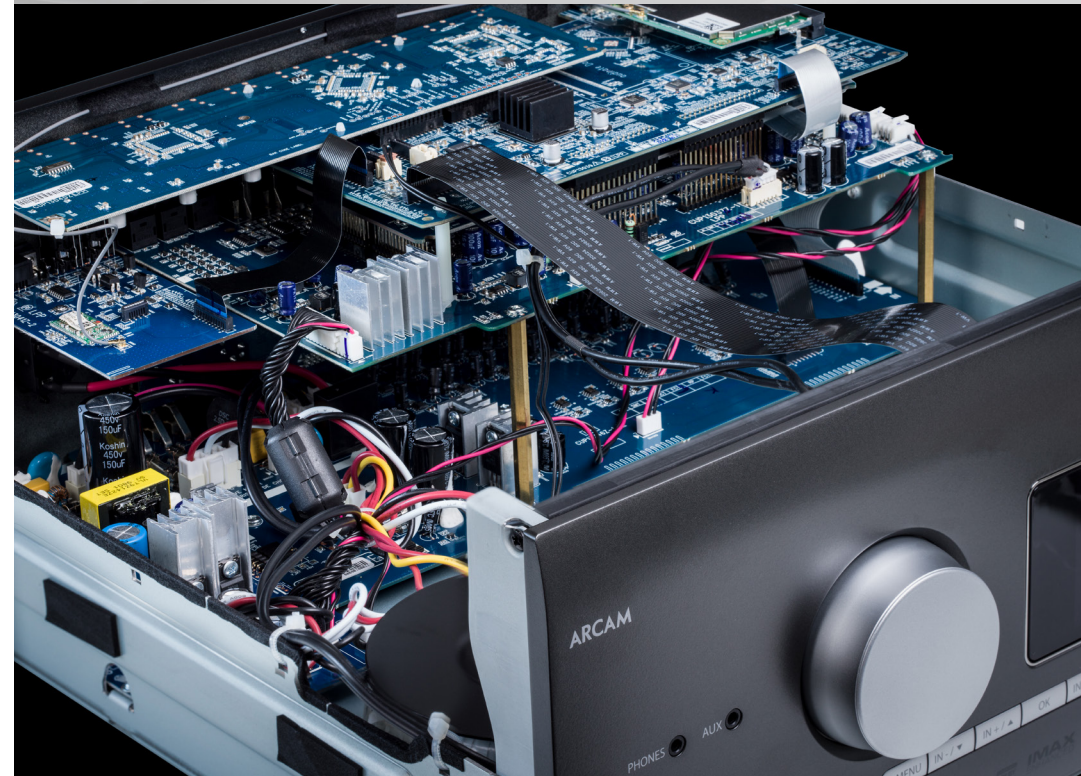
ARCAM was founded through a passion for music, to be able to experience great sound and hear the quality of music as it was initially recorded. It was a fresh and clear ambition that drove the inception of the company: to save the world from bad sound and to support talented British artists and performers with the equipment and systems that they truly deserved. Grounded in this proud history of musical talent, ARCAM set out to celebrate sound in its purest and most genuine form.



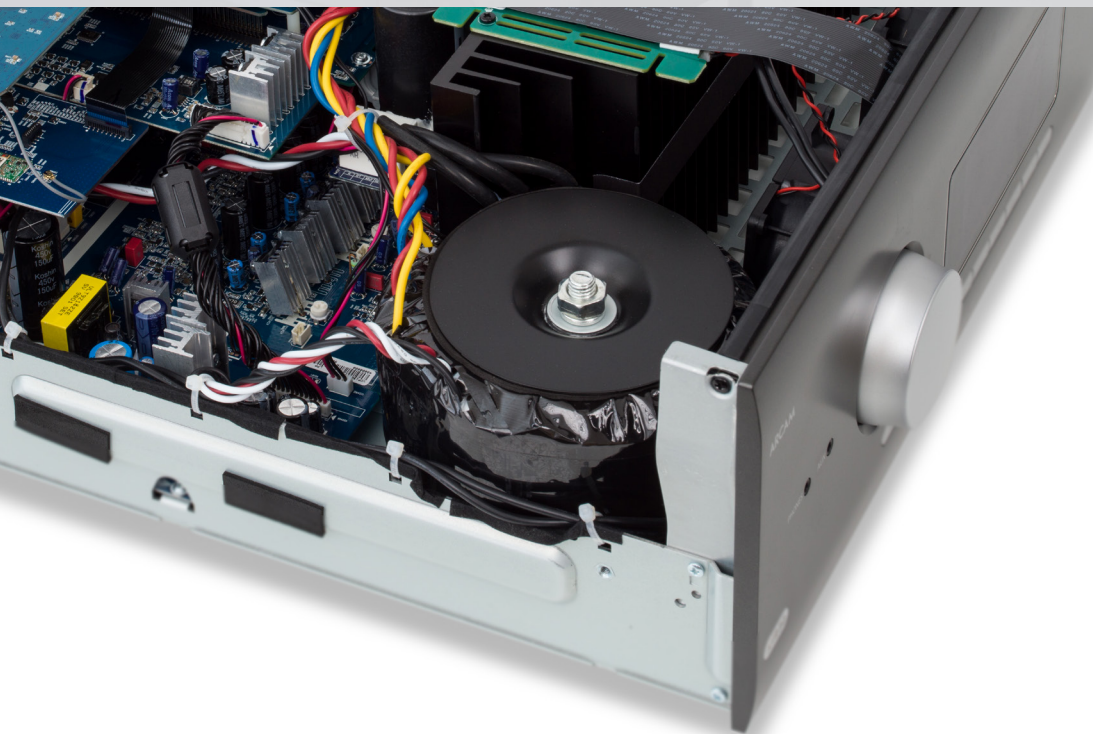
# ENGINEERING

Enthusiasm for music reproduction lies at the heart of everything we do. Over the years, we have built an outstanding team of gifted and passionate engineers who have poured their hearts and souls into products that deliver a quality of reproduction that has won countless awards around the world.

For 40 years, we have been developing and making descendants of the amplifier, where our story began in consumer electronics with the iconic A60. And, for almost 30 years we've been developing and making CD players. As far back as 1995, we expanded into home cinema electronics, developing a world-class reputation for designing some of the best-sounding AV electronics.









# CLASS G

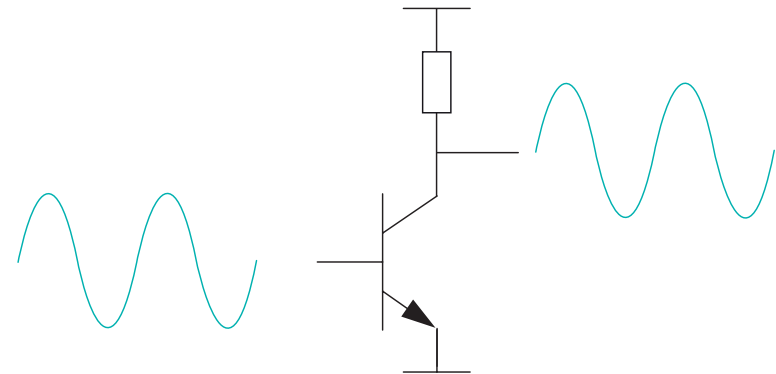
ARCAM has been investigating and perfecting Class G for over ten years and, through intensive research and development, we bring amplifiers to market with no compromise, with absolute transparency and absolute power while retaining total control of the precious audio signal.

## What is Class G?

Like a hybrid car engine, Class G implements multiple power supplies rather than just a single supply. If a dynamic signal is received that goes beyond the capability of this first power supply, the secondary supply is gradually brought in up to full rated power output as required. This gives a very efficient design as additional power is only used when required, much like a turbo-charger. Modern high speed silicon allows us to make this switch faster than would ever be required, even way beyond the audio bandwidth, so there is no “turbo lag”.

The first power supply is of lower power and within this region we run in pure Class A, which has no crossover distortion. As the secondary supply is only used when required, extreme levels of power are possible because very little energy is wasted in the amplifier as heat when it is not being used. Without control this power would be ill-used, so like high performance car tyres, multiple output devices within the amplifier keep a tight grip on the loudspeaker at all times, ensuring your listening experience never “leaves the road”.

## Class A



### An inefficient solution to the class A/B crossover problem

#### Pros

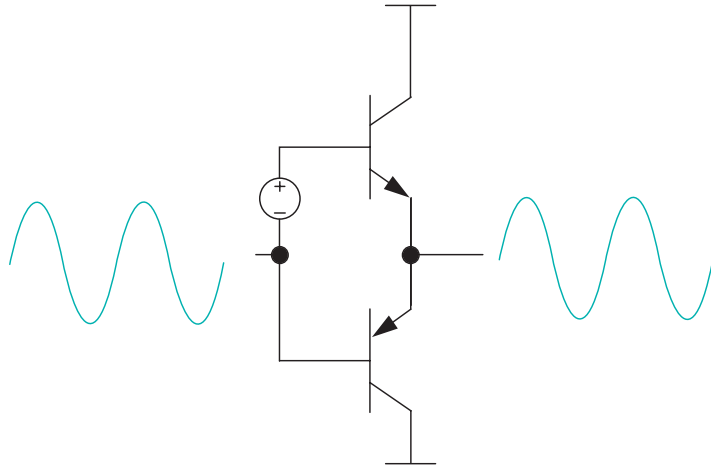
Does not suffer from crossover distortion and is often observed to be transparent for this reason offering a level of realism through low-level accuracy that is seldom achieved in a class A/B design.

#### Cons

When used in a solely Class A design, it is inefficient as it will always be drawing full power even with no signal to amplify. For this reason, Class A amplifiers usually offer lower power outputs and often found only in esoteric high-end designs.



## Class AB



The most common amplifier design

### Pros

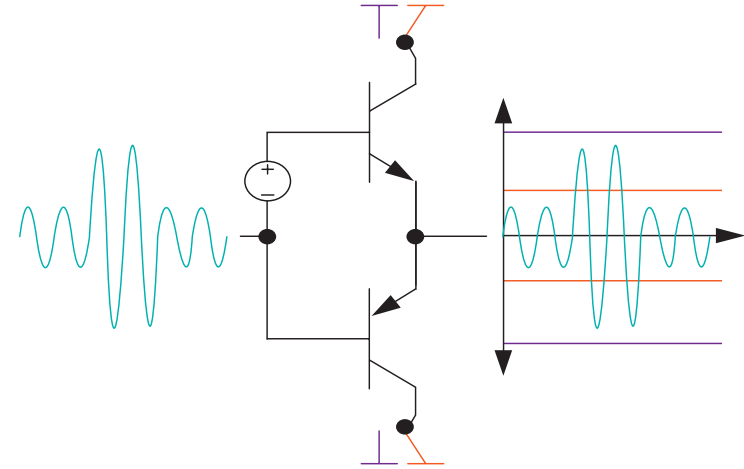
Far more efficient than pure Class A

### Cons

Suffers from crossover distortion at low levels – remember the magic of audio reproduction is not found in the loudest output, but in the tiniest of details that create that sense of reality.



## Class G



Complex to design, but engineered correctly,  
the clever solution

### Pros

Greater efficiency and transparency with less wasted heat energy.

### Cons

Expensive to engineer and hard to perfect, hence seldom seen.



# DIRAC LIVE

## Digital Room Correction



Room acoustics are typically the weakest link in most sound systems, making acoustic sound treatment fundamental - in an imperfect environment, even exceptional loudspeakers don't perform as they should. Imaging, clarity, and bass punch are affected, and resonances in the speaker as well as room modes further distort the sound reproduction which results in music that isn't true to the artist's recording. With Dirac Live® you can easily measure the acoustic characteristics of your loudspeakers and room, and calibrate the sound system to reproduce sound as intended.

Arcam has featured Dirac Live, the state-of-the-art room technology, in its AV products since 2015 and it's now implemented in ARCAM's latest Hi-fi separate, the SA30. Dirac Live ensures you get the most out of your ARCAM audio system for unrivalled sound-quality and performance.

### Dirac Live® Technology

Dirac Live is a mixed-phase room correction technology used in cinemas, studios and luxury cars. It corrects not only the frequency response but also the impulse response, a factor critical for accurate staging, clarity and bass reproduction. Dirac Live will:

- Improve the imaging of your sound system and the clarity of the music
- Make voices more intelligible
- Produce a tighter bass
- Reduce listening fatigue
- Improve the timbre, remove resonances and room modes
- Reduce early reflections
- Mixed-phase filtering for maximum performance and time domain control
- High-resolution filters through a proprietary filter structure with low computational requirements.





**Hi-Fi**

---

Hear Everything



# HI-FI

The Arcam HDA range of separate components has real pedigree. Arcam started making stereo amplifiers in the 1970s and since inception, we pride ourselves on engineering systems that are transparent and faithful to the original sound. The ultra-low levels of distortion and noise that these systems exhibit deliver a natural but highly detailed result which allows you to listen and be swept along by the power and majesty of an orchestra in flow.

Our goal is to serve the music makers faithfully. Attention to the detail in all aspects of circuit design, layout, part quality and mechanical isolation plays a crucial role in delivering a result that will thrill and delight all who listen. An ARCAM HDA system is an investment in music that will repay the owner many times over in listening pleasure.

ARCAM stereo components offer class-leading performance from all sources, from traditional vinyl up to digital audio streaming solutions. Despite this, there is no compromise on the flexibility offered to the end-user.









# SA10

## Class AB Integrated Amplifier

An extremely flexible class A/B integrated amplifier with a healthy 50W of power per channel. Includes five analogue inputs including phono and three digital inputs.



# SA20

## Class G Integrated Amplifier

A remarkably efficient Class G integrated amplifier, the SA20 boasts greater power output for powering significant loudspeakers in larger spaces and our reference DAC for the best digital audio sound quality.



# SA30

## Class G Intelligent Integrated Amplifier

The SA30 is an intelligent integrated amplifier offering an impressive 120W of Class G amplification for impeccable sound, control and efficiency. Featuring Dirac Live, the state-of-the-art room correction technology and equipped with eARC support, the SA30 delivers unparalleled performance and sound quality that's optimized to its surroundings.

The SA30 is designed with all the latest cutting-edge features - Class G is expertly implemented and, the highest resolution of audio support is presented. Simple streaming is available with a mobile device using the native app of choice via Apple AirPlay2 or Google Chromecast.





# CDS50

## CD/SACD Network Player

Our most advanced CD/SACD, digital audio and network streaming player yet. Plays all disc formats including SACD, CD-A, CD-R and CD-RW and supports audio file formats including FLAC, WAV, AIFF, OGG, MP3, AAC and WMA



# ST60

## Streamer

The ST60 is a high-performance streaming source that enables streaming audio from all of the major services (Tidal, Qobuz, Spotify, Napster, Deezer, etc) over Cast or Airplay2. It will also handle UPnP sources and is Roon Ready.





# Home Cinema

---

Stunning Realism, Immersive Sound



# HOME CINEMA

ARCAM is one of a very few specialist manufactures who are able to engineer home cinema electronics that can reproduce music to the same standard as the best stereo separates. Most other home cinema systems are disappointing when reproducing music. The engineering know-how and detail amassed over more than 40 years goes into all our designs and the difference in sound quality is readily appreciable. This level of reproduction adds massively to the realism of both movie and music playback. The recent growing availability and quality of 4k video sources has made it possible to rival the very best cinematic experience in the comfort and privacy of your own home.

Some of our customers are lucky enough to have a room they can devote to a private home cinema but most of our customers need a system that can also be their main music replay system. We have therefore engineered systems that can deliver the best of both worlds in a normal living room and have designed products whose understated looks will grace any home.









# AVR10

## Class AB AV Receiver

The AVR10 is a high-performance audio/visual receiver that delivers stunning realism for the ultimate home cinema experience. With an impressive 12-channel surround solution and featuring all the latest CODECs from Dolby, DTS, Auro-3D and IMAX Enhanced, the AVR10 exemplifies sound quality and engineering excellence.

The AVR10 features the efficient class AB amplification for a level of transparency that delivers the most captivating sound. Audiophile listening experiences are optimised with full 12-channel Dirac calibration on board as well as simple streaming with a mobile device using the native app of choice via Apple AirPlay2 or Google Chromecast.



# AVR20

## Class AB AV Receiver

The AVR20 is a high-performance audio/visual receiver that delivers stunning realism for the ultimate home cinema experience. With an impressive 16-channel surround solution and featuring all the latest CODECs from Dolby, DTS, Auro-3D and IMAX Enhanced, the AVR20 exemplifies sound quality and engineering excellence.

The AVR20 features the powerful class AB amplification for a level of transparency that delivers the most captivating sound. Audiophile listening experiences are optimised with full 16-channel Dirac calibration on board as well as simple streaming with a mobile device using the native app of choice via Apple AirPlay2 or Google Chromecast.



# AVR30

## Class G AV Receiver

The AVR30 is a high-performance audio/visual receiver that delivers stunning realism for the ultimate home cinema experience. With an impressive 16-channel surround solution and featuring all the latest CODECs from Dolby, DTS, Auro-3D and IMAX Enhanced, the AVR30 exemplifies sound quality and engineering excellence.

The AVR30 boasts the dynamic class G amplification, powering the most complex speakers with ease while delivering great efficiency. Audiophile listening experiences are optimised with full 16-channel Dirac calibration on board as well as simple streaming with a mobile device using the native app of choice via Apple AirPlay2 or Google Chromecast.





# AV40

## AV Processor

The AV40 is a high-performance audio/visual processor that delivers stunning realism for the ultimate home cinema experience. With an impressive 16-channels of surround sound processing and featuring all the latest CODECs from Dolby, DTS, Auro-3D and IMAX Enhanced, the AV40 exemplifies sound quality and engineering excellence.

The AV40 boasts XLR balanced outputs for every channel to deliver the highest quality analogue connection to power amplifiers.

Audiophile listening experiences are optimised with full 16-channel Dirac calibration on board as well as simple streaming with a mobile device using the native app of choice via Apple AirPlay2 or Google Chromecast.



# PA240

## 2 Channel Power Amplifier

The PA240 is a high-performance power amplifier that delivers 2 channels of efficient Class G amplification. With an impressive 380W per channel, the PA240 is designed to offer the greatest flexibility and power without compromising on control.



# PA410

## 4 Channel Power Amplifier

The PA410 is a high-performance power amplifier that delivers 4 channels of efficient Class AB amplification. With an impressive 70W per channel, the PA410 is designed to offer the greatest flexibility and power without compromising on control.



# PA720

## 7 Channel Power Amplifier

The PA720 is a high-performance power amplifier that delivers 7 channels of efficient Class G amplification. With an impressive 140W per channel, the PA720 is designed to offer the greatest flexibility and power without compromising on control.



Featuring the best-in-class components including a toroidal based power supply, acoustically damped chassis, paralleled transistor output stages and exceptionally low levels of distortion, ARCAM power amplifiers master the reproduction of music with all its originality and detail for an unmatched level of sound quality and clarity..









# DIGITAL

The way we access and enjoy music has changed significantly within the last 20 years. With the exception of Vinyl, all common sources of music are digital and now more than ever, these are driven by the internet. Arcam now has the widest collection of digital music players in our history. From the CDS50, a more typical CD player that also plays high resolution SACDs, to the SA30 integrated amplifier, and our multi-channel AV receivers and Processor. All are able to provide instant access to all your favourite digital audio sources. Whether it is local content on your hard drive or music services like Tidal, Qobuz or Spotify, you can enjoy your favourite playlists on demand with our Musiclife app, or directly from your smartphone or tablet with AirPlay2 or Google Cast\*.

With over 30 years of digital music playback products, Arcam was the first specialist audio company to design our own CD player and not modify a Sony or Philips. Arcam produced the first separate DAC in 1987 with the Arcam Black Box defining an important product category in high performance audio. Our products now define ultimate performance with convenience, delivering on our technical experience with some of the best performing digital audio systems inside all our amplifiers, keeping the box count to a minimum.

\*AirPlay2 and Google Cast not on CDS50.



# SOLO UNO

## Streamer with built-in amplifier

The Solo Uno brings total simplicity to the complex world of audio streaming by providing a compact, stylish and elegant streamer with a built-in amplifier. Boasting the class-leading Arcam sound quality, this effortless system requires the addition of just two speakers and a mobile device using the native music app of choice via Apple AirPlay2, Roon Ready, UPnP or Google Chromecast. In addition, the Solo Uno can be updated “over the air” automatically to provide enhanced future streaming features and years of listening enjoyment.



# MusicLife

## Streaming and Control App

Developed in-house at Arcam, the MusicLife app is regularly updated to add features and functions to Arcam's broad range of networked Hi-fi and AV components.

Effortlessly control streaming music from your Mac / PC or NAS drive directly from your iPad, iPhone or Android.

MusicLife gives you complete control of the media player in your Arcam network-based music system, including advanced features such as playback of content stored on your iPad, iPhone or Android, shuffle & repeat playback.



# SPECIFICATIONS

Model	SA10	SA20	SA30
Description	Class AB Integrated Amplifier	Class G Integrated Amplifier	Class G Intelligent Integrated Amplifier
Frequency Response	20Hz – 20kHz $\pm$ 1dB	20Hz – 20kHz $\pm$ 1dB	20Hz – 20kHz $\pm$ 1dB
Nominal Sensitivity	1V	1V	1V
Input Impedance	10k $\Omega$	10k $\Omega$	10k $\Omega$
Continuous power output, 0.5% THD, per channel, both channels driven @ 1kHz, 4ohm	85W	150W	200W
Maximum Input	6Vrms	6Vrms	6Vrms
Signal/Noise Ratio (A-wtd) 50W, ref. 1V input	106dB	115dB	120dB
Mains Voltage	110-120V or 220-240V, 50-60Hz	110-120V or 220-240V, 50-60Hz	110-120V or 220-240V, 50-60Hz
Maximum Power Consumption	350W	500W	800W
Dimensions (W x H x D)	433 x 87 x 323mm (17" x 3.4" x 12.7")	433 x 87 x 323mm (17" x 3.4" x 12.7")	433x100x323mm (17" x 3.9" x 12.7")
Weight (net)	8.4kg (18.5 lb)	9.2kg kg (20.3 lb)	12kg (26.4 lb)



# SPECIFICATIONS

Model	CDS50	ST60
Description	CD/SACD Player	Streamer
Frequency Response	10Hz – 20kHz ± 0.5dB	10Hz – 20kHz ± 0.5dB
Output Level (0dB)	2.2Vrms unbalanced, 4.5Vrms balanced	2.2Vrms unbalanced, 4.5Vrms balanced
Output Impedance	47Ω unbalanced, 600Ω balanced	47Ω unbalanced, 600Ω balanced
Minimum Recommended Load	5kΩ	5kΩ
Maximum Input	6Vrms	6Vrms
Harmonic Distortion (1 kHz)	<0.0008%	<0.0008%
Mains Voltage	110–240V, 50–60Hz	110–240V, 50–60Hz
Maximum Power Consumption	20W	10W
Dimensions (W x H x D)	433x87x283mm (17"x3.4"x11.1")	433x102x306mm (17"x4"x12")
Weight (net)	5.3kg (11.7 lb)	5.5kg (12.1 lb)

Model	Solo Uno	
Description	Streamer with built-in amplifier	
Signal-to-Noise-Ratio (A-Weighted)	117dB	
Output Power (1kHz, 1% THD, Two channels driven)	4Ω	50W
	8Ω	25W
AUX Input sensitivity	2V	
Subwoofer	Output Level	2.1V
	Cross-over frequency	80Hz
Power requirements	100 - 240VAC, 50/60Hz	
Dimensions (W x H x D)	140 x 52 x 213mm (5.5"x2"x8")	
Weight (net)	1.5kg (3.3 lb)	

# SPECIFICATIONS

Model	AVR10	AVR20	AVR30	AV40
Description	Class AB AV Receiver	Class AB AV Receiver	Class G AV Receiver	AV Processor
Continuous Power Output, per channel	2 channels driven, 20Hz – 20kHz, <0.02% THD – 80W	2 channels driven, 20Hz – 20kHz, <0.02% THD – 110W	2 channels driven, 20Hz – 20kHz, <0.02% THD – 120W	
Signal/Noise Ratio	– 93dB	– 93dB	– 93dB	– 93dB
Frequency Response	– 20Hz—20kHz ± 0.2dB	– 20Hz—20kHz ± 0.2dB	– 20Hz—20kHz ± 0.2dB	-- 20Hz—20kHz ± 0.2dB
Video Inputs	HDMI – x7(HDMI2.0a, HDCP2.2)	HDMI – x7(HDMI2.0a, HDCP2.2)	HDMI – x7(HDMI2.0a, HDCP2.2)	HDMI – x7(HDMI2.0a, HDCP2.2)
Video Outputs	HDMI - Z1 x2 (out1 eARC, HDMI2.0a, HDCP2.2, out2 HDMI2.0a, HDCP2.2), Z2 x1 (HDMI2.0a, HDCP2.2)	HDMI - Z1 x2 (out1 eARC, HDMI2.0a, HDCP2.2, out2 HDMI2.0a, HDCP2.2), Z2 x1 (HDMI2.0a, HDCP2.2)	HDMI - Z1 x2 (out1 eARC, HDMI2.0a, HDCP2.2, out2 HDMI2.0a, HDCP2.2), Z2 x1 (HDMI2.0a, HDCP2.2)	HDMI - Z1 x2 (out1 eARC, HDMI2.0a, HDCP2.2, out2 HDMI2.0a, HDCP2.2), Z2 x1 (HDMI2.0a, HDCP2.2)
Audio Inputs	HDMI – x7, Coax SPDIF – x4, Toslink – x2, RCA Phono – x6, 3.5mm aux, USB input, Ethernet Client, Internet Radio, eARC (from display)	HDMI – x7, Coax SPDIF – x4, Toslink – x2, RCA Phono – x6, 3.5mm aux, USB input, Ethernet Client, Internet Radio, eARC (from display)	HDMI – x7, Coax SPDIF – x4, Toslink – x2, RCA Phono – x6, 3.5mm aux, USB input, Ethernet Client, Internet Radio, eARC (from display)	HDMI – x7, Coax SPDIF – x4, Toslink – x2, RCA Phono – x6, 3.5mm aux, USB input, Ethernet Client, Internet Radio, eARC (from display)
Dimensions W x D x H (including feet)	433 x 425 x 171mm (17.05" x 16.73" x 6.73")	433 x 425 x 171mm (17.05" x 16.73" x 6.73")	433 x 425 x 171mm (17.05" x 16.73" x 6.73")	433 x 425 x 171mm (17.05" x 16.73" x 6.73")
Weight (net)	16.5kg kg (36.4 lb)	16.6kg kg (36.6 lb)	18.1kg (36.6 lb)	10.6kg (23 lb)

# SPECIFICATIONS

Model	PA240	PA410	PA720
Description	Power Amplifier	Power Amplifier	Power Amplifier
Harmonic Distortion 80% power, 8ohm at 1kHz	0.002%	0.002%	0.002%
Nominal Sensitivity	for 200W / 8ohm 1.15V (RCA type), 2.3V (XLR type) @ 31dB	for 50W / 8Ω 0.56V	for 100W / 8Ω 0.8V
Frequency Response	– 20 - 20kHz +/-0.05dB	– 20 - 20kHz +/-0.02dB	– 20 - 20kHz +/-0.05dB
Input Impedance	10kΩ	10kΩ	10kΩ
Signal/Noise ratio (A-wtd) 50W / 8Ω	110dB	106dB	112dB
Mains Voltage	110–120V or 220–240V, 50–60Hz	110–120V or 220–240V, 50–60Hz	110–120V or 220–240V, 50–60Hz
Power Consumption (Maximum)	1.5kW	700W	1.5kW
Dimensions W x D x H (including feet)	433 x 425 x 171mm (17.05" x 16.73" x 6.73")	433 x 425 x 102mm (17.05" x 16.73" x 6.73")	433 x 425 x 171mm (17.05" x 16.73" x 4")
Weight (net)	18kg (36.6 lb)	10kg kg (22 lb)	18kg (36.6 lb)



# ARCAM

---

The West Wing, Stirling House,  
Waterbeach, Cambridgeshire.  
CB25 9PB  
[www.arcam.co.uk](http://www.arcam.co.uk)