

# ARCAM

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## SPRING 2019

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**HEAR WHAT YOU'VE  
BEEN MISSING.**



# HERITAGE



Arcam is based just outside the famous university city of Cambridge, and our story started the classic way: two friends with a passion for music and electronics met up while engineering students at Cambridge University, and founded Amplification and Recording Cambridge in 1976.

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 on this proud history of musical talent, Arcam set out to celebrate sound in its purest and most genuine form.

# ENGINEERING



We've been developing and making CD players for almost 30 years, and for 40 years the descendants of the amplifier with which the company started in consumer electronics, and as far back as 1995 expanded into home cinema electronics, developing a world-class reputation for making some of the best-sounding AV electronics.

In home cinema we've also developed our own DVD players and, more recently, Blu-ray players from scratch here in the UK, engineering them using our decades of experience in CD players to ensure they play music as well as they do movies, delivering better all-round performance than other brands' products.

Hard-won techniques for preserving and handling the most delicate signal and reproducing music with all its subtleties, nuances and excitement intact are now in our blood. We know that as audio moves on from CD to even higher definition formats, we're determined our products should continue to serve the music faithfully and deliver maximum enjoyment to the listener.

Yes, we listen – we're a company of music-lovers, after all – but we also test and experiment in a scientifically rigorous manner. We like to say that 'we measure what we treasure': we know that the better the engineering benchmarks we deliver the better the results we – and our customers – hear.

# LOOKING AHEAD



Hi-fi and home cinema systems are always evolving, and we are here to help you keep up to speed with the latest developments, and make sure you make the right decisions.

Whatever future technology appears on the market we're confident we can engineer systems that get the absolute best reproduction from whatever format is available.

We've shown that no-nonsense engineering can work wonders when it comes to bringing music and movies to life: now we're delivering ever more ways to do that for a fast-changing entertainment world, and developing new products to make the most of whatever the future may bring.

# HDA SERIES



The design of the HDA range draws upon all of Arcam's experience as one of the UK's most respected audio companies, to produce Arcam's best performing range of audio products yet – using the best quality components and engineering practices, the HDA range is designed and built to give you years of listening enjoyment.



## CDS50

### CD/SACD Network Player

Our most advanced cd, 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.



## SA10

### Integrated Amplifier

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



## SA20

### Integrated Amplifier

A remarkably efficient Class G integrated amplifier that utilizes Class-A specifically for the low-level signals but switches to an additional power supply when required to power large sections of the waveform.

# FMJ SERIES



As one of the very few audio specialists in the world to design AV receivers, Arcam has developed a reputation for balancing a finely honed technical specification with world-class audio performance. The AVR390, AVR550 & AVR850 are, quite simply, the highest performing AV receivers Arcam has ever made.



## P349

### Power Amplifier

With a class G amplifier, toroidal-based power supply, acoustically damped chassis, paralleled transistor output stages and exceptionally low levels of distortion and noise the P349 is capable of reproducing music with all its original authority and detail. Rest assured you will be hearing the music just as the artist intended.



## P429

### Power Amplifier

The P429 uses the best quality components and engineering practice to develop a product that will give many years of musical pleasure and reliable service. With a class G amplifier, toroidal transformer based power supply, acoustically damped chassis, complementary transistor output stages, exceptionally low levels of distortion and noise the P429 is capable of reproducing music with all its original authority and detail. Rest assured you will be hearing the music just as the artist intended.



## SR250

### Stereo AV Receiver

There are many music lovers who want an amplifier that sounds as good as the best separates in stereo but also want all the connectivity and flexibility that a networked modern AVR delivers. We are proud to announce the SR250 our first 2 channel high performance AVR. The SR250 is an audiophile product that delivers stunning realism with everything from heavy-weight blockbusters to your favourite concert video.



AVR390



AVR550



AVR850

## AVR390, AVR550 and AVR850

### AV Receivers

Offering a level of sound quality that is far above competing receivers, these AVRs are audiophile products by any measure. Equally at home with high resolution surround sound or two-channel music, they deliver stunning realism with everything from heavy-weight blockbusters to your favourite concert video.

Further enhancing the performance of the new AVR390, AVR550 & AVR850, Arcam has also included the very latest room correcting technology from Dirac Research. Dirac Live® for Arcam gives the dealer or end user the ability to tune the system to their room for the most enjoyable listening experience.

Together with Arcam's legendary amplifier technology, Dolby Atmos & DTS:X deliver captivating sound that places and moves audio anywhere in the room, including overhead, to bring entertainment alive all around the audience. Whether you are listening to music, movies, television shows or playing your favourite video games, Dolby Atmos & DTS:X deliver the full impact of the entertainment experience.

The Arcam AV Receivers are IMAX Enhanced bringing stunning realism to home cinema. Along with DTS Virtual:X, Dolby Vision and HDR10, these receivers are able to decode multiple codecs and create the ultimate listening and viewing experience.

Note: For a 7.1.4 system, an additional 4-channel amplifier (or two 2-channel power amplifiers) is required.



## AV860

### AV Processor

The AV860 includes the very latest room correcting technology from Dirac Research. Dirac Live® for Arcam gives the dealer or end-user the ability to tune the acoustic performance of the system to any room situation giving the listener the best possible experience in their own home. Along with IMAX Enhanced technology, DTS Virtual:X, Dolby Vision and HDR10, the AV860 has the flexibility to create an unparalleled listening experience in all kinds of environments.

# rSERIES



Audiophile accessories designed to enhance and complement your audio system.



## rHEAD

### Audiophile Class A Headphone Amplifier

The rHead is a true linear Class A design, resulting in absolutely no crossover distortion for the purest sound. Extensive care has been taken to optimise the layout and areas like multiple ultra-low noise power supplies and a fully direct-coupled signal path make a big difference. Also, the volume control is an ultra-linear analogue resistive ladder device, as used in the flagship A49, which eliminates tracking errors which can be found in normal potentiometer-based volume controls.



## rPLAY

### Music Streamer

The rPlay is the latest addition to the rSeries and allows you to add network audio streaming services and internet radio to any system using DTS PlayFi, Apple Airplay® or UPnP enabled music sources. It also features an SPDIF output that can be connected to an AVR, such as the AVR850.



## rPHONO

### Phono Amplifier

Featuring a wealth of features specifically designed for optimal matching of your turntable's cartridge, the rPhono is the perfect solution for the vinyl lover. Moving coil users benefit from precision impedance matching using high-quality trimmers instead of discrete steps, while moving magnet users have a wide variety of capacitance options. An optionally selectable low frequency "rumble" filter eliminates the effects of warping or pressing irregularities, which can be present on some vinyl.

## rBLINK

### Bluetooth Receiver

Streaming high quality music from your favourite mobile device is now easy with the rBlink Bluetooth\*\* audio converter. Engineered by Arcam, and using the APT-X™\* transmission system, the rBlink allows any Bluetooth equipped music device to quickly and easily send music straight to a HiFi system with stunning quality.



## irDAC-II

### Audiophile DAC

The irDAC-II has Bluetooth connectivity, headphone output and DSD128 support. It comes packed with cutting-edge technology and features that will benefit the most demanding user. We have gained a lot of knowledge developing class-leading DACs. Areas like isolation of the digital and analogue stages, ultralow noise power supplies and a direct-coupled signal path make a big difference. We use the outstanding ESS Sabre DAC to obtain performance that we believe will be unmatched in this price category. Jitter reduction is an obsession within our engineering team. They have applied their experience in the irDAC-II to produce a signal that is almost jitter free.



# SPECIFICATIONS

## HDA Series

Model	SA20	SA10
Description	Integrated Amplifier	Integrated Amplifier
Frequency Response	20Hz – 20kHz ± 1dB	20Hz – 20kHz ± 1dB
Nominal Sensitivity	1V	1V
Input Impedance	10kΩ	10kΩ
Single Channel, 4Ω, Power (wpc @ 1kHz)	150W at 0.5% THD+N	85W at 0.5% THD+N
Maximum Input	6Vrms	6Vrms
Signal/Noise Ratio (A-wtd) 50W, ref. 1V input	115dB	106dB
Mains Voltage	110-120V or 220-240V, 50-60Hz	110-120V or 220-240V, 50-60Hz
Maximum Power Consumption	500W	350W
Dimensions (W x H x D)	433 x 87 x 323mm (17" x 3.4" x 12.7")	433 x 87 x 310mm (17" x 3.4" x 12.2")
Weight	9.2kg (20.3 lb)	8.4kg (18.5 lb)

Model	CDS50
Description	SACD/CD Player
Frequency Response	10Hz – 20kHz ± 0.5dB
Output Level (0dB)	2.2Vrms unbalanced, 4.5Vrms balanced
Output Impedance	47Ω unbalanced, 600Ω balanced
Minimum Recommended Load	5kΩ
Maximum Input	6Vrms
Harmonic Distortion (1kHz)	<0.0008%
Mains Voltage	110–240V, 50–60Hz
Maximum Power Consumption	20W
Dimensions (W x H x D)	433 x 87 x 283mm (17" x 3.4" x 11.1")
Weight	5.3kg (11.7 lb)

## FMJ Series

Model	P349	P429
Description	Power Amplifier	Power Amplifier
Harmonic Distortion	80% power, 8Ω at 1kHz - 0.001%	80% power, 8Ω at 1kHz 0.002%
Nominal Sensitivity	for 200W / 8Ω 1.15V (RCA type) 2.3V (XLR type)	for 100W / 8Ω 0.8V variable down to 7V
Input Impedance	10kΩ (RCA type) 10kΩ (XLR type)	10kΩ
Frequency Response	20Hz – 20kHz ± 0.05dB (RCA type)	20Hz – 20kHz ± 0.05dB
Signal/Noise Ratio (A-wtd)	ref 50W / 8Ω 110dB (RCA type)	ref 100W / 8Ω 110dB
Mains Voltage	110–120V~ or 220–240V	110–120V~ or 220–240V~, 50-60Hz
Power Consumption (maximum)	1kW	1kW
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")
Weight (net)	18.0kg (39.69 lb)	14.4kg (31.75 lb)

Model	SR250
Description	Stereo AV Receiver
Continuous Power Output, per channel	2 channels driven, 20Hz – 20kHz, <0.02% THD - 90W
Signal/Noise Ratio	– 110dB
Frequency Response	– 20Hz–20kHz ± 0.2dB
Video Inputs	HDMI - x7 (6 x HDMI2.0a, HDCP2.2, 1 x MHL compatible)
Video Outputs	HDMI - Z1 x2 (out1 ARC, 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, ARC (from display)
Dimensions W x D x H (including feet)	433 x 425 x 171mm (17.05" x 16.73" x 6.73")
Weight (net)	15.1kg (33.29 lb)

## FMJ Series

Model	AVR390	AVR550
<b>Description</b>	AV Receiver	AV Receiver
<b>Continuous Power Output, per channel</b>	2 channels driven, 20Hz – 20kHz, <0.02% THD – 80W	2 channels driven, 20Hz – 20kHz, <0.02% THD – 110W
<b>Signal/Noise Ratio</b>	– 110dB	– 110dB
<b>Frequency Response</b>	– 20Hz – 20kHz ± 0.1dB	– 20Hz – 20kHz ± 0.1dB
<b>Video Inputs</b>	HDMI – x7 (6 x HDMI2.0a, HDCP2.2, 1 x MHL compatible)	HDMI – x7 (6 x HDMI2.0a, HDCP2.2, 1 x MHL compatible)
<b>Video Outputs</b>	HDMI - Z1 x2 (out1 ARC, HDMI2.0a, HDCP2.2, out2 HDMI2.0a, HDCP2.2), Z2 x1 (HDMI2.0a, HDCP2.2)	HDMI - Z1 x2 (out1 ARC, HDMI2.0a, HDCP2.2, out2 HDMI2.0a, HDCP2.2), Z2 x1 (HDMI2.0a, HDCP2.2)
<b>Audio Inputs</b>	HDMI – x7, Coax SPDIF – x4, Toslink – x2, RCA Phono – x6, 3.5mm aux, USB input, Ethernet Client, Internet Radio, ARC (from display)	HDMI – x7, Coax SPDIF – x4, Toslink – x2, RCA Phono – x6, 3.5mm aux, USB input, Ethernet Client, Internet Radio, ARC (from display)
<b>Dimensions W x D x H (including feet)</b>	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")
<b>Weight (net)</b>	16.7kg (36.81 lb)	15.5kg (34.17 lb)

Model	AVR850	AV860
<b>Description</b>	AV Receiver	AV Processor
<b>Continuous Power Output, per channel</b>	2 channels driven, 20Hz – 20kHz, <0.02% THD - 120W/200W	
<b>Signal/Noise Ratio</b>	– 110dB	– 110dB
<b>Frequency Response</b>	– 20Hz – 20kHz ± 0.1dB	– 20Hz – 20kHz ± 0.1dB
<b>Video Inputs</b>	HDMI – x7 (6 x HDMI2.0a, HDCP2.2, 1 x MHL compatible)	HDMI - x7 (6 x HDMI2.0a, HDCP2.2, 1 x MHL compatible)
<b>Video Outputs</b>	HDMI - Z1 x2 (out1 ARC, HDMI2.0a, HDCP2.2, out2 HDMI2.0a, HDCP2.2), Z2 x1 (HDMI2.0a, HDCP2.2)	HDMI - Z1 x2 (out1 ARC, HDMI2.0a, HDCP2.2, out 2 HDMI2.0a, HDCP2.2), Z2 x1 (HDMI2.0a, HDCP2.2)
<b>Audio Inputs</b>	HDMI – x7, Coax SPDIF – x4, Toslink – x2, RCA Phono – x6, 3.5mm aux, USB input, Ethernet Client, Internet Radio, ARC (from display)	HDMI – x7, Coax SPDIF – x4, Toslink – x2, RCA Phono – x6, 3.5mm aux, USB input, Ethernet Client, Internet Radio, ARC (from display)
<b>Dimensions W x D x H (including feet)</b>	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")
<b>Weight (net)</b>	16.7kg (36.81 lb)	10.25kg (22.60 lb)

## rSeries

Model	rHead	rPlay	rPhono
<b>Description</b>	Headphone Amplifier	Music Streamer	Phono Amplifier
<b>Frequency Response</b>	10Hz – 20kHz	10Hz – 20kHz	20Hz – 50kHz +/-0.2dB, -3dB at 7Hz (Rumble filter off) 45Hz – 50kHz +/-0.2dB, -3dB at 20Hz, -13dB at 10Hz (Rumble filter on)
<b>Total Harmonic Distortion</b>	0.002% at 2V output, 32Ω load	0.0007%	0.005%
<b>Signal/Noise Ratio</b>	98dB at 2V output, 32Ω load	117dB	
<b>Dimensions (W x H x D)</b>	194 x 44 x 135mm (7.64" x 1.73" x 5.31")	194 x 44 x 124mm (7.64" x 1.76" x 4.88")	194 x 44 x 124mm (7.64" x 1.76" x 4.88")
<b>Weight</b>	0.71kg (1.57 lb)	1.12kg (2.46 lb)	1.1kg (2.43 lb)

Model	irDACII	rBlink
<b>Description</b>	USB DAC	Wireless DAC
<b>Frequency Response</b>	20Hz – 20kHz, +/-0.1dB	10Hz – 20kHz, ±0.1dB
<b>Total Harmonic Distortion</b>	0.0007%	0.002%
<b>Signal/Noise Ratio</b>	117dB (24 bit)	106dB (24-bit)
<b>Dimensions (W x H x D)</b>	194 x 44 x 124mm (7.64" x 1.76" x 4.88")	75 x 100 x 26mm (2.95" x 3.94" x 1.02")
<b>Weight</b>	1.1kg (2.43 lb)	350g (0.77 lb)



