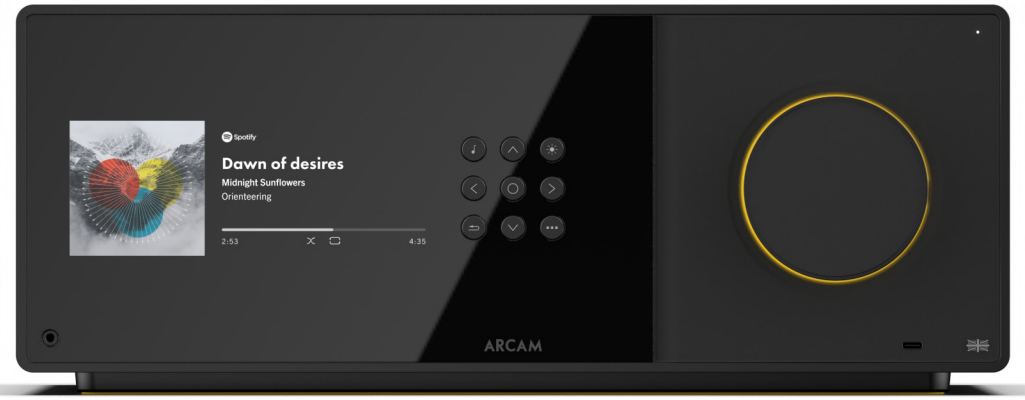
ARCAM

SPECIFICATION SHEET

AVP45



16 Channel AV Processor

AVP45: The Heart of the Ultimate Home Theatre

For those who seek the biggest and best in home cinema, the AVP45 is the definitive hub for uncompromised performance. This is not just an AV processor—it's the command centre for the most dynamic and flexible home theatre systems imaginable.

Engineered in Cambridge, UK, the AVP45 delivers 16 channels of immersive audio decoding and processing, powered by the same high-performance DAC architecture found in ARCAM's flagship stereo hi-fi systems. Every detail, every nuance, every cinematic moment is reproduced with breathtaking clarity and precision.

The AVP45 includes balanced audio outputs for all channels, ensuring pristine signal integrity when paired with external amplification. Combine it with the ARCAM PA9 Class G power amplifier for a system that sets the standard for power, control, and musicality.

Flexibility is at the core of the AVP45. With Matrix Channel Assignment, you have complete freedom to configure your system exactly as you envision—whether for movies, gaming, or sport. Dolby Atmos, DTS:X, IMAX Enhanced and AURO-3D processing, and Dirac Live room correction guarantee a truly world-class experience tailored to your space.

And with the same intuitive interface, vibrant 6.5" colour display, and Radia App found across the Radia AV Series, control is effortless—because the experience should be as seamless as the sound.

AVP45: The ultimate processor for those who demand the biggest, boldest, and most brilliant home theatre experience.

Features

- Immersive audio formats: Dolby Atmos, DTS:X, Auro-3D
- Matrix Channel Assignment for the flexibility to assign the surround channels you need for the best performance of your system
- Dirac Live Room Correction
- HDMI and HDMI eARC
- Bluetooth 5.4 with Auracast
- High-resolution display for clearly visible album artwork and metadata
- Supports Apple Airplay, Google Cast, Spotify Connect, Qobuz Connect and Tidal Connect
- Setup with ARCAM Radia App for presets, Internet Radio and Podcasts
- Supports up to 24 bit / 192 kHz Hi-res audio
- Roon Ready

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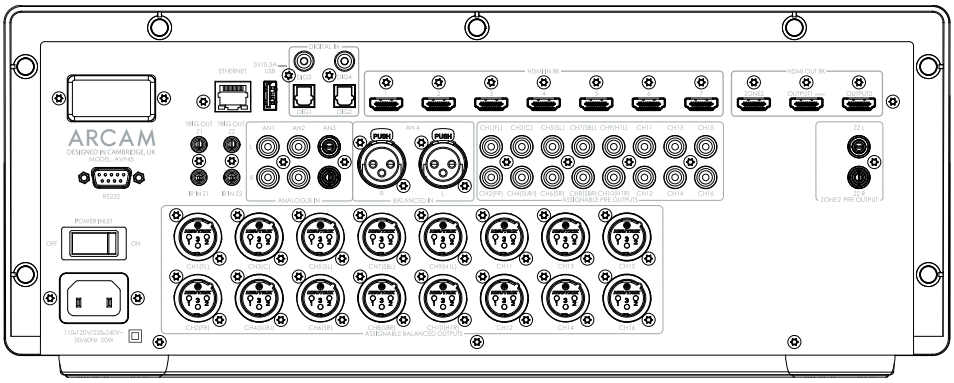

Decoding/Encoding		
Maximum Channel Count		16
Reassignable Channels		All channels
Dolby		Dolby Atmos, Dolby TrueHD, Dolby Atmos Height Virtualisation, Dolby Surround
DTS		DTS:X, DTS HD Master, DTS Neural:X, DTS Virtual:X
IMAX Enhanced		Yes
Auro 3D		Yes
MPEG H		Yes
HDMI		
Inputs/Outputs		7/2 (Zone 1), 1 (Zone 2)
HDMI/HDCP Versions		2.1a/2.3
Resolution support resolution/framerate		Up to 8K/60Hz or 4K 120Hz
Supported Dynamic Range Profiles		HDR, HDR10, HDR10+, HDR10+ Gaming, Dolby Vision, HLG
Supported HDMI features		Variable Refresh Rate (VRR), Auto Low Latency Mode (ALLM), CEC, eARC/ARC (Zone 1, Output 1)
On Screen Display		Yes
Streaming		
Works with (apps)		ARCAM Radia, Spotify Connect, Tidal Connect, Qobuz Connect, Roon (Ready)
Works with (services)		Apple Airplay, Google Cast
ARCAM Radia supported services (Global)		Internet Radio, Podcasts, UPnP
Supported Hi-res media:		FLAC, WAV (LPCM), MQA, AAC, ALAC, AIFF, DSD (up to 128), MP3, OGG, WMA
Supported Hi-res Bit depth:		16, 24
Supported samples rates (kHz):		Up to 192 kHz
Gapless Playback:		Yes
Frequency response:		20Hz—20kHz ± 0.05dB
Digital Inputs		
Number of inputs (Coaxial/Toslink)		2/2
Supported Sample Rates (kHz)	Coaxial (RCA)	192, 176.4, 96, 88.2, 48, 44.1
	Optical (Toslink)	96, 88.2, 48, 44.1
Bit depths (bit)	Coaxial & Optical (Toslink)	24, 16
Frequency response		20Hz—20kHz ± 0.2dB
Signal/noise ratio (A-wtd, ref. 50W, 0dBFS)		100dB
Analogue Inputs		
Number of inputs		3x RCA pairs
Signal/noise ratio (A-wtd, ref. 50W, 1V input)		100dB
Frequency response		20Hz—20kHz ± 0.2dB
Preamplifier Outputs		
Number of Outputs XLR/RCA		16/16
Balanced (XLR) peak output level per channel		5V RMS
Single-ended (RCA) peak output level per channel		2V RMS
THD+N (20 Hz to 20 kHz)		–100dB
Wireless Specifications		
Bluetooth Profile		5.4; A2DP Sink/Source, AVRCP, Snapdragon Sound, AAC, LE Audio, Auracast, GATT, VCP, MCP, BAP, CAP
General		
Mains voltage		100-120V/220-240V 50/60Hz
Power consumption (maximum)		50W
Dimensions W x D (including speaker terminals) x H (including feet)		432 x 399 x 170mm
Weight (net)		9.4 kg
Weight (packed)		15 kg

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