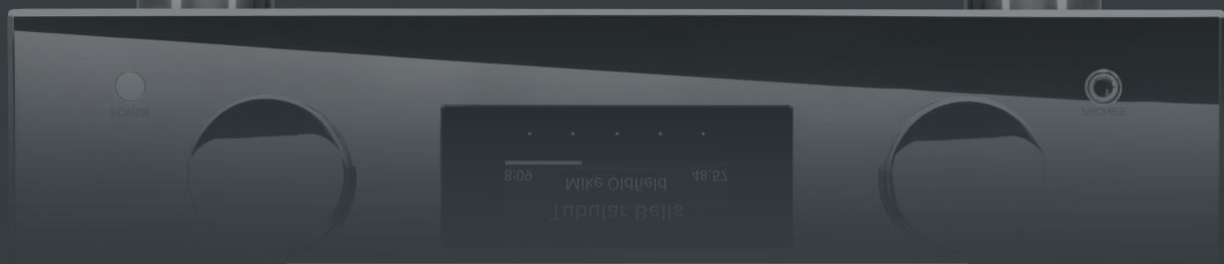




# EVOLUTION AS 3.3 & 5.3

Streaming Amplifier  
with 2x350 Watt

## Productinformation



*Handcrafted in Germany*

## EVOLUTION AS 3.3 and AS 5.3 in short

- Amplifier with Streaming with 2 x 350 W
- Speaker A & B
- X-Stream Engine® for HiRes streaming inkl. DSD, controlable over RCX APP
- Prepared for Spotify Connect, Qobuz, Tidal Connect MAX, web radio (expandable)
- High Performance Phono input switchable and with complete MM & MC customisation in the menu (on the AS or on the APP)
- HDMI (ARC) input
- 2 digital inputs (SPDIF coax & optical)
- USB A for external hard drives (NTFS & FAT)
- 3 RCA + 1 XLR high-level inputs, adjustable as signal-sensitive inputs, switchable as home theatre thurput
- Bluetooth 5.0, Airplay. 2, ROON ready
- AVM Multiroom function
- 2 digital outputs (SPDIF, optical), optionally adjustable volume
- 6.3 mm headphone output on the front with dedicated headphone amp
- Signal processing with selected double-quad DAC for max. 384/32 PCM (ESS 9028 PRO) and DSD 256
- Tone control and parametric loudness with bypass function (also via RC-X APP)
- Dimmable graphic display with touchpoint sensor technology and proximity sensor
- Extensive menu functions (customisable input sensitivity, individual input naming and much more)
- Minimal stand-by consumption
- Compact design: 43 cm wide, 33 cm deep, 12 cm high
- Trigger in, ext. IR sensor, 2 x trigger out
- Housing variants: Aluminium silver or black brushed or as CELLINI version with chrome front (surcharge)

## EVOLUTION AS 5.3

The special feature of the AS 5.3 is its Tube Line Stage, which is located in the preamplifier section of the AS5.3. Based on the tubes specially manufactured for us, we have developed a completely new tube stage for the current Evolution Line, which fully unfolds the sonic charm of the AVM tubes. Thanks to AVM's own circuit technology, the tubes are guaranteed to last a pleasingly long time (approx. 20,000 hours).

The AS offers a wide range of connections (see technical data) and combines this with the extensive streaming options of the AVM X-Stream Engine®. A sensational phono preamp is also on board, whose settings can even be controlled via the RC-X app.

## EVOLUTION PAS 3.3

The AS 3.3 operates as a pure transistor device. All other connection and performance data correspond to those in the AS 5.3.

## Born from the best genes: The sister devices AS 3.3 and AS 5.3

AVM can look back on a decades-long tradition of developing high-end sounding One devices since the 1990s. Based on the AVM X-Stream Engine®, a new high-performance generation of our Evolution All-in-One AS devices has been created. Numerous innovations have been incorporated and the new RCX APP controls AS 3.3 and AS 5.3 completely. These high-performance All-in-One solutions make device towers and overflowing cable clutter a thing of the past. All modern connections are available so that, for example, both a record player and a TV can be connected via HDMI ARC. To achieve our goal of designing the best-sounding all-in-one devices on the world market, we have borrowed from our flagship AS 8.3. The Evolution AS devices now occupy a screwless aluminium precision housing only 43 cm wide and impress with their minimalist elegance and symmetrical design.

The main focus was placed on a completely modernised APP control system. Simple, intuitive operation and a clear and attractively designed user interface make managing even large music collections child's play. This makes you want to discover new music on numerous streaming platforms. The supplied selection of Spotify Connect, Tidal Connect MAX, Qobuz and HighResAudio can also be easily expanded in the future. The AVM RCX app is available for both iOS (Apple) and Android-controlled devices.

The new AVM X-Stream Engine® can stream all high-resolution formats up to resolutions of 384/32, including DSD (256). This streaming engine is a complete AVM in-house development and is entirely software-based. It can therefore be updated online in a future-proof manner. An HDMI (ARC) interface is also on board, as is the modern Bluetooth connection, additional digital inputs and a USB A interface as standard. A completely newly developed high-performance phono input stage enables the connection of MM and MC systems. As a special feature, all adjustments to the selected pickup system can be selected directly and conveniently in the app. This ensures perfect analogue sound, especially in combination with our Rotation turntables. Completely new are the digital outputs, which can now also be volume controlled on request, as well as the signal-sensitive inputs that switch on AS 3.3/5.3 as soon as a signal is fed to these inputs.

There has also been a huge improvement in terms of sound compared to its predecessor. The completely new amplifier stages now deliver an impressive 350 watts of continuous power and can handle any loudspeaker with ease.

The digital section has been completely overhauled as part of the new development, as this crucial part is based on the selected ESS9028 PRO Double-Quad DAC. In terms of sound, this is also a significant gain, which is accompanied by a large amount of circuitry, with 4 DACs per channel working in parallel. This effort benefits all digital sources in terms of sound, so that all high-resolution formats can be reproduced perfectly and faithfully.

The Evolution AS is available in the standard colours aluminium silver or black, and on request also as an elegant CELLINI version with a chrome-plated and hand-polished front and chrome-plated rotary knobs. Like all AVM Inspiration devices, the Evolution AS is manufactured entirely by hand at the factory in Malsch. The vast majority of suppliers, e.g. for the precise housing parts, are also based in the immediate vicinity of our main factory. You are welcome to watch our creative process in our 'making-of' video.

Repeated, intensive quality controls during all production steps and a break-in period of several days for each individual device ensure our promise of maximum reliability in the long term and we grant a transferable guarantee of 2 years, with online registration an additional 2 years.

## Technical data

### 5.1.1 Amplifier (CS/AS only)

Amplification factor .....	30
Factor .....	< 0.005%
Signal-to-noise ratio .....	> 95dB
Input Sensitivity (2x350W, 4Ω) .....	1.2V
Output power .....	2x 350W (4Ω) / 2x 180W (8Ω)

### 5.1.2 Preamp (analogue)

Input Resistance (RCA) .....	50 kΩ
Input Resistance (XLR) .....	40 kΩ
Output Resistance (RCA: PRE, LINE) .....	47 Ω
Output Resistor (XLR) .....	94 Ω
Amplification Factor .....	1
Distortion factor (3.3) .....	< 0.001%
Distortion factor (5.3) .....	< 0.025%
Signal-to-noise ratio .....	> 100dB
Crosstalk attenuation (channels) .....	> 94dB
Crosstalk attenuation (inputs) .....	> 85dB
Input Output (1% THD) .....	8.6 V
Output control PRE OUT (1% THD) .....	8.5 V
Ausgangsuccessful gel LINE OUT .....	2,5 V
Frequency response at -3dB (3.3) .....	< 0Hz to > 100kHz
Frequency response at -3dB (5.3) .....	< 5Hz to > 100kHz

### 5.1.3 Headphoneamplifier

Output resistance .....	24 Ω
Amplification factor .....	2.0
Distortion factor .....	< 0.001%
Signal-to-noise ratio .....	> 100dB
Output Output (1% THD) .....	7 V

### 5.1.4 Pre-Amp (Phono)

Entzerrung RIAA (20Hz-20kHz) .....	+/- 0,3dB
Gain MM .....	40dB/ 50dB
Signal-to-noise ratio MM .....	> 84dB(A)
Gain MC 60dB/ 70dB	
Signal-to-noise ratio MC .....	>75dB(A)
Input Output MM (1% THD, 40dB) .....	76 mV
Input Output MC (1% THD, 60dB) .....	7.4 mV
Frequenzgang (Line-Out) .....	11Hz – 100kHz
Adjustable resistance values MC (in Ω) .....	100; 180; 220; 330; 660; 1k; 2k
Adjustable capacitance values MM (in pF) .....	47; 100; 150; 200; 270; 310; 410



## 5.1.5 Network

LAN port (hot pluggable) .....	100 Mbit/s
Supported WLAN/ Wifi standards.....	2.4/ 5GHz/ 802.11a/b/g/n/ac
Number of antennas.....	2
WPS	yes

## 5.1.6 Streaming

Max. sample rates .....	DSD256, 32 bit/384 kHz PCM
Streaming Services.....	AirPlay, Qobuz, Roon, Spotify, TIDAL, HighResAudio
Supported file formats:.....	WAV, MP3, WM, AAC, FLAC, ALAC, DSD, Ogg, AIFF

## 5.1.7 Bluetooth

Bluetooth Standard.....	5.0 LE
Supported Bluetooth profiles.....	AVRCP 1.5, AD2P

## 5.1.8 USB-Input (back))

USB Standard USB .....	2.0
Max. Strom.....	500 mA
Supported formatting .....	FAT16, FAT32, NTFS

ATTENTION: The USB input is only intended for hard drives and USB sticks!

## 5.1.9 Digital inputs (S/P-DIF/ coaxial)

Max. Abtast-/ Bitrate (OPTO) .....	96 kHz / 24 Bit
Max. Abtast-/ Bitrate (COAX) .....	192 kHz / 24 Bit
Min. signal level [Vpp] at 192kHz (COAX) .....	> 150 mVpp
Input Impedance (COAX).....	75 Ω
Deemphasis (OPTO, COAX).....	Yes, automatic
Max. Abtast-/ Bitrate (ARC).....	192 kHz / 24 Bit
Input Impedance .....	75 Ω

**NOTE:** When using the digital inputs, the cable length of the digital cables should not exceed three meters.

## 5.1.10 Digital outputs (S/P-DIF / coaxial)

Max. Abtast-/ Bitrate (OPTO) .....	96 kHz / 24 Bit
Max. Abtast-/ Bitrate (COAX) .....	192 kHz / 24 Bit
Output Impedance (COAX) .....	75 Ω

**NOTE:** When using the digital outputs, the cable length of the digital cables should not exceed three meters.



## 5.1.11 Control

Trigger input.....	5 - 20V
Trigger output (2x).....	12V (sequentially switched)

**NOTE:** The second trigger-out is delayed to the first trigger-out to protect against excessive current spikes. Please use a standard 3.5mm mono jack cable for the trigger connectors.

## 5.1.12 Distortion factor (CS/AS 3.3/5.3)

Power supply.....	100V-240V / 50Hz-60Hz
Power consumption standby.....	< 0.5 Watt
Power consumption network standby.....	< 2 Watt
Idle power consumption.....	< 16 watts
Power consumption, maximum.....	1000 watts
Fuse used.....	: T 10A

## 5.1.13 Distortion factor (PAS 3.3/5.3)

Power supply.....	100V-240V / 50Hz-60Hz
Power consumption standby.....	< 0.5 Watt
Power consumption network standby.....	< 2 Watt
Idle power consumption.....	< 16 watts
Power consumption, maximum.....	25 watts
Fuse used.....	: T 1A

## 5.1.14 Generell

Weight (CS/AS 3.3/5.3).....	11 kg
Dimensions (WxHxD).....	430 x 122 x 350
Warranty.....	2 years + 2 years if you register online

\*Warranty periods may vary from country to country.

The device is intended for non-commercial users.

The Ethernet / LAN port may only be connected to the house network (in-house LAN network).

Productinformation

# EVOLUTION AS 3.3 & 5.3

Streaming Amplifier with 2x350 Watt

The AVM logo consists of the letters 'AVM' in a white, sans-serif font, centered within a dark gray circular background.

(Garantiezeiten können in anderen Vertriebsländern variieren)



