

# AVM

AUDIO VIDEO MANUFAKTUR



INSPIRATION SD 2.2

EVOLUTION SD 3.2

EVOLUTION SD 5.2

Preamplifier

with HighEnd Streaming, DAC

& Tube Line Stage (SD 5.2)

# INSPIRATION SD 2.2, EVOLUTION SD 3.2, SD 5.2

Preamplifier with High End Streaming, DAC & Tube Line Stage (SD 5.2)



## AVM SD: A completely different animal

The new SD units herald a completely new category of AVM components with streaming capabilities. The brand new SD components combine an analogue preamplifier with two high-level inputs, DAC with DSD, streaming client prepared for TIDAL HiFi streaming service, web radio, and a high performance headphone amp all into one unit. That is why we simply refer to them as Streaming DAC or short: SD.

In the SD 2.2 and 3.2 we focus on pure solid state technology in all amplifier stages. While the SD 2.2 sits in a compact body of our INSPIRATION Linre, the SD 3.2 is compiled into a cabinet size well known from our EVOLUTION 3 series. As SD 5.2 we add the additional Evolution tube line stage as it is being known from the CD 5.2 or the PA 5.2. This proprietary AVM Tube technology in combination with new ways to access digital data stream is compiled in a housing size equal the size of the CD 5.2 or a pair of Mono Power Amplifiers MA 3.2 S.

Since all SD units may serve as full-blown preamplifiers, combining them with our power amps such as the SA 2.2 (available in June 2015), SA 3.2, MA 3.2S is a logical consequence. Furthermore all SD models may as well be combined with active speakers.

Customers of the HiFi streaming service TIDAL will be able to stream their music directly to all SD models from June 2015. A free software update featuring TIDAL support for previously purchased SD models will be available at the same time.

All three SD models are close relatives and since there are many similarities especially in the daily operation and connectivity, we have chosen to combine all units into one product information. We will clearly mark which features differ or are reserved for the SD 5.2.

## EVOLUTION SD 2.2, SD 3.2, SD 5.2 in brief

- 2 unbalanced line inputs (i.e. for connection of an external Phono preamp or analog tuner)
- 1 Pre Out balanced, 1 Pre Out unbalanced
- 6 digital inputs (SD 5.2), 5 digital inputs (SD 2.2, SD 3.2)
- 2 x SPDIF opt.
- 2 x SPDIF coax.
- 1 x USB input synchronous / asynchron (switchable), 64DSD (2,8 MHz)
- 1 x AES/EBU (SD 5.2)
- Network: WLAN & LAN
- Streaming Formats: MP3, WMA, AAC, OGG Vorbis, FLAC (192/32 via LAN), WAV (192/32 via LAN), AIFF (192/32 via LAN), ALAC (96/24 über LAN)
- Supported media server: UPnP 1.1, UPnP-AV and DLNA-compatible server, Microsoft Windows Media Connect Server (WMDRM 10), DLNA-compatible server: NAS
- Webradio: vTuner / Airable Internet Radio Service, Auto network config., Internet Radio Station database (automatic updates)
- Digital signal processing with up to 192 kHz / 24 Bit, 64DSD (2,8 MHz)
- Upsampling frequency for all incoming digital signals may be switched between: Native, 44,1, 48, 88, 96, 176, 192 kHz

# INSPIRATION SD 2.2, EVOLUTION SD 3.2, SD 5.2

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- Switchable digital filters
- Class-A headphone amp with 6,3 mm banana plug (SD 3.2, SD 5.2)
- Discrete headphone amp with 3 mm banana plug (SD 2.2)
- Tone control and parametric loudness with bypass-function
- Large, blue graphic display
- A large variety of menu function for individual presets (i.e. adjustable input sensitivity, renaming inputs and many more)
- Housing options: Aluminum silver or black, chrome front optional
- Completely controllable via AVM RC S App for iOS or Android or optional RC 9 remote control with color display

The SD 5.2 features the additional Evolution tube line stage with two additional power supplies. These additional power supplies supply the tube heating. As tubes AVM uses the custom made AVM 83 T:

- Tube Line Stage with AVM 83 T used in balanced mode
- High voltage generator independent from the AC mains supplying the tube heating

With the new SD units so called computer audio comes to the preamplifiers of the INSPIRATION and EVOLUTION Line. A completely new combination of analogue preamplifier, streaming client, DAC with DSD, and headphone amp creates a new category of digital sound center for listeners with a focus on digitally streamed music from different sources. In the SD 5.2 the EVOLUTION tube line stages are added on top, creating a digital music center with charming tube sound.

2 DACs per channel are being applied operating in a pushpull arrangement. This way even in the digital domain all music signals are entirely being processed in balanced mode. While all models enable you to play back hi-res DSD audio files (DSD64, 2,8MHz), the integrated USB input may be switched between its synchronous or asynchronous mode. The hi-res streaming engine allows countless formats to be processed and is upgradeable making it future proof for additional formats. Gapless playback, fast forward and return and much more are standard features. Not least, the integrated streaming engine allows for fast and easy software updates which can be retrieved from the AVM download server making any SD model a future-proof HiFi component.

Sonically the SD 5.2 sparks the charming sound of its additional tube line stages. These amplifier stages are directly derived from the PA 8 of the OVATION series enchanting with their emotional music reproduction. In the SD 5.2 tube stages the proprietary AVM 83 T tubes are being applied. The SD 2.2 and SD 3.2 derive its sonic diversity by using solid state amplification in all stages.

Like all AVM hi-fi components the SD 2.2, SD 3.2, and SD 5.2 are carefully developed and assembled by our engineers in Malsch, Germany. Our vendors for housing and electronic parts reside all near-by. This proximity helps us to easily ensure and maintain superb quality level of the supplied parts for the AVM hi-fi components made of these.

During the manufacturing process we perform repeatedly numerous tests to insure the absolute quality of our products. When the assembling is finished and the first inspection is done all units must pass a run in test in order to prove their reliability. After that a careful final inspection follows before packing & shipping. All this ensures creating a perfect product from AVM for our customers.

# INSPIRATION SD 2.2, EVOLUTION SD 3.2, SD 5.2

Preamplifier with High End Streaming, DAC & Tube Line Stage (SD 5.2)



## Technical Data SD 2.2, SD 3.2, SD 5.2

### Preamplifier

Input sensitivity	20 mV – 350 mV (adjustable)
Input impedance (line)	10 kOhm
Frequency range line	< 5 Hz - > 80 kHz, 30 Hz - > 20 kHz
TIM	SD 5.2: 0,1% (mostly K2) SD 2.2, SD 3.2: <0,01%

### Digital inputs

Sampling frequency	upsampling / downsampling switchable up to 192 kHz / 24 Bit <20 Hz – 20 / 80 kHz
Frequency range	<20 Hz – 20 / 80 kHz (depending on input sampling frequency)
Deemphasis	yes, automatic
Input format Dig in opt/coax	SPDIF, 33 kHz – 96 / 192 kHz / 16 – 24 Bit
DSD (via USB)	64DSD (2,8 MHz)
Synchronous USB-Input	48 kHz / 16 Bit (no driver needed) 192 kHz / 24 Bit (driver needed)
TIM (related to digital 0)	SD 5.2: 110 dB(A) SD 2.2, SD 3.2: 120 dB(A)

# INSPIRATION SD 2.2, EVOLUTION SD 3.2, SD 5.2

Preamplifier with High End Streaming, DAC & Tube Line Stage (SD 5.2)



## Technical Data SD 2.2, SD 3.2, SD 5.2

### Miscellaneous: SD 5.2

Power consumption

max.

25 W

Measurements (W x H x D)

430 x 130 x 370 mm

Weight

11 kg

### Miscellaneous SD 3.2

Power consumption

max.

18 W

Measurements (W x H x D)

430 x 100 x 325 mm

Weight

9 kg

### Miscellaneous SD 2.2

Leistungsaufnahme

max.

18 W

Measurements (W x H x D)

340 x 92 x 350 mm

Weight

8 kg

Warranty for all SD models:

3 years

(Warranty may vary in other countries)