

AEON

ACTIVE STUDIO MONITOR



EXPERIENCE THE DIFFERENCE





About the company

APS Spanily s.j. was established in 2006 as a project devoted to studio sound production technique. As we use professional project and measurement tools, we have total control over the final effect at each stage of the product creation. Ready-made projects are implemented into production with maximum attention paid to the quality of the final product.

Our present offer includes:

- active studio monitors
- high quality signal cables.

Experience we have gathered in designing products for studio use enables us to offer high quality products meant for enthusiasts of good sound. Our offer will also include passive monitors, based on the same transducers as in the case of active versions of studio monitors, as well as high quality signal and speaker cables.

We are continually working on new products and we will be pleased to inform you about them through our website or our distributors.

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AEON – is a high quality near-medium field monitor offering exceptional sound capabilities to its user at a reasonable price. Thanks to a wide transmission band, exceptionally low descending bass as well as wide capabilities in precise regulation, **AEON** will be perfect for:

- Recording studios,
- Radio studios,
- TV studios,
- Multimedia studios,
- Postproduction,
- Mastering,
- Digital work stations,
- Home recording studios,
- Highest quality audio monitoring systems.

AEON monitor is an active 2-way appliance equipped with two speakers (tweeter and woofer) and two independent power amplifiers for each speaker fixed on the back plate of the monitor enclosure, as well as with an appropriate set of precise regulators, signalizes, inputs and security devices:

Input sensitivity switch
High tone speaker level switch
Bass control level switch
Bass control switch
Ground Lift switch
Symmetrical XLR output
Symmetrical XLR output XLR or ¼ TRS (Jack)

AEON is designed to work in stereophonic or multi channel systems (5+1 or 7+1, or larger) like DOLBY, DTS, THX, etc.

The monitor construction is based on speakers produced by a Norwegian company SEAS. The woofer is a construction meeting the APS Spanily s.j. requirements. The monitors will be offered in two versions: with a titanium or a fabric dome tweeter.

The monitor has been closed in the bass reflex enclosure with front ventilation, providing a dynamic bass properly filled with low frequencies. The edges of the monitor enclosure have been rounded to reduce reflections and to improve the quality of produced sound. The inner wall of the enclosure that completely separates the electronic module from the speaker chamber constitutes at the same time a significant reinforcement of the enclosure eliminating excessive oscillations of the monitor enclosure side walls.

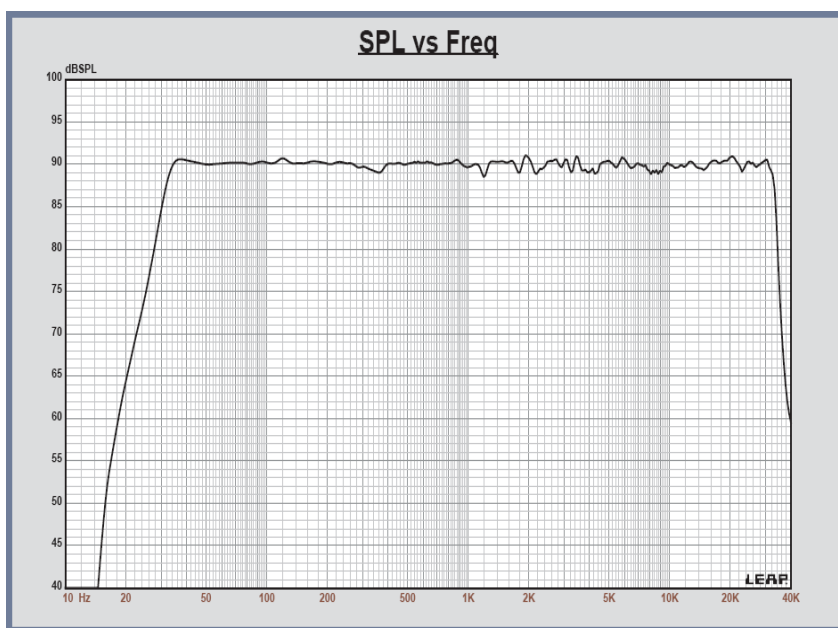
In the low frequencies range the power amplifier with discrete elements (power transistors Toshiba 2SA1943/2SC5200) has been employed. Whereas, in filter systems the highest quality operational amplifiers BurrBrown OPA 2134 and OPA 134 have been used.

Instead of traditional potentiometers, eight-position hermetic switches have been introduced, ensuring high resistance to external factors and long-lasting, failure-free functioning.

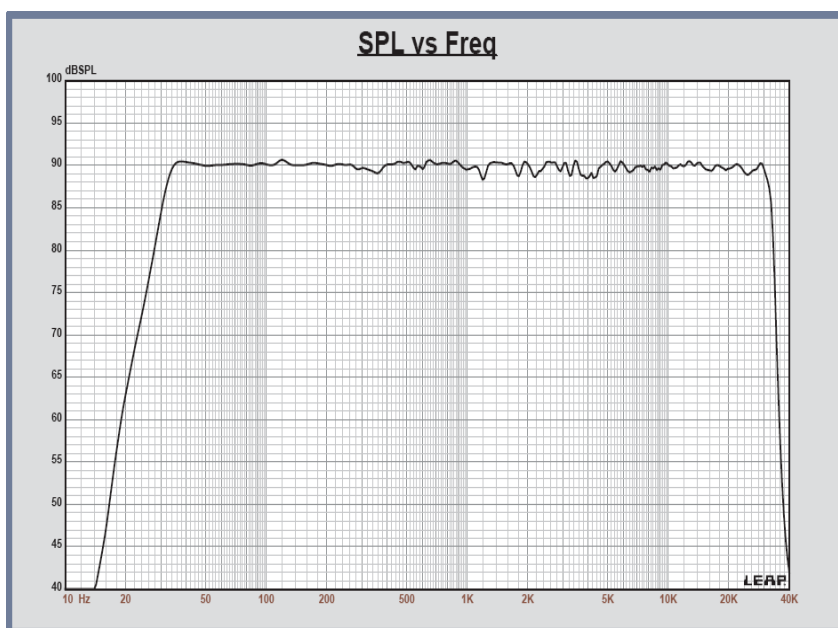
We measure the frequency characteristics of each produced studio monitor in a given batch. Next, we compare the measurement results and put the monitors in pairs with parameters maximally similar to each other.

AEON Active Studio Monitor	
Field Monitor	Near-medium
Type	Active – two power amplifiers: - Tweeter p.a.: monolithic integrated circuit TDA7294 - Woofer p.a. operates on 2SA1943/2SC5200
System	Two-way
Crossover Frequency	1.5 kHz (slope: 24 dB/octave.)
Dimensions: Height × Width × Depth	42 cm × 27 cm × 36 cm/ 16.5" x 10.5" x 14"
Free Field Frequency Response	± 2 dB: 30 Hz ÷ 30 kHz
SPL in Free Field @ 1m	RMS: 108 dB Peak: 116 dB
Weight	18 kg / 39.6 lbs.
Loudspeakers	
Bass/Mid-Range Loudspeaker	φ 22 cm (8 2/3") Diaphragm: cellulose, surround: rubber Magnetically shielded
Tweeter Loudspeaker	φ 2.5 cm (1") in two versions: - Fabric dome - Titanium dome Magnetically shielded
Amplifiers	
Bass/Mid-Range Power Amplifier	150 W RMS @ 4 Ω
Tweeter Power Amplifier	70 W RMS @ 6 Ω
THD Distortions	0.005 % – P _O = 5 W, f = 1 kHz 0.1 % max – P _O = 0.1 up to 50 W, f = 20 Hz up to 20 kHz
Signal to Noise Ratio	103.5 dB – weighted by A curve 101 dB – in band of 20 Hz up to 20 kHz
Input Voltage Level for 100 dB SPL In Free Field @ 1m	0 dBu (i.e. 0.775 V) – calibrated regulators in 0 dBu, 0 dB positions
Calibrated Controls	
Input Sensitivity Switch	30dBu, 22dBu, 15dBu, 9dBu, 4dBu, 0dBu, -3dBu, -10dBV
Bass Controller Level Switch	-15dB, -12dB, -9dB, -6dB, -3dB, 0dB, 3dB, 6dB
Bass Controller Switch	Position ON: bass-reflex with active filter Position OFF: "clear" quick bass-reflex
Tweeter Loudspeaker Level Switch	-5dB, -3dB, -1.5dB, -0.5dB, 0dB, 0.5dB, 1.5dB, 3dB
Inputs, Outputs	
Input	Two types (common socket Combo): - XLR symmetrical (balanced) - TRS symmetrical (balanced) "6.3 mm" Input impedance 10 kΩ
„Loop Through” Output	XLR symmetrical Output impedance 100 Ω

Frequency characteristics of the monitor with titanium dome tweeter



Frequency characteristics of the monitor with fabric dome tweeter





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