



Main Monitor S6X

Product Sheet



English

Main Monitor S6X

Description

The S6X is one of the most ambitious studio monitors available today. They can be found in some of the highest profile studios in the industry, from elite private studios to world class jazz, from rock and orchestral tracking and mixing facilities to high powered hip hop production rooms. The concept of the horizontal symmetry of the drivers is greatly affected by the generous proportions of the larger diaphragms, resulting in both exceptionally flat frequency response and extremely realistic dynamic reproduction across the entire audio spectrum. Numerous controls at the front panel allow detailed adaptations to different acoustic environments.

The built-in amplifiers are connected to the respective chassis points at the shortest possible distance, thus avoiding having the advantages of the active technology be compromised by long distances between the amplifier units. The 12" subwoofers are each driven by 500 W rms and 250 W units power the other three frequency bands.

This main monitor offers very high accuracy and power in sheer abundance. SPL peaks beyond 120 dB are produced without any compression or harshness. The S6X is a top shelf choice for larger control rooms and film or sound studios.

Amplifiers

Both the S6X and the S7A Mk2 ADAM use the new generation of switching amps and power supplies. These are combined in an extremely powerful (1000 and 1500 W rms respectively) yet cool amplifier assembly. Together with the built in overload protection circuits these amplifiers will run reliably and at constant safe operating temperatures not possible with conventional designs. The amplifiers are of extremely low output impedance, leading to a damping factor >4.000, enabling them to strictly control the motion of the drive units.



PWM amplification module

The front panel

Along with the input gain, there are level controls for each of the four drivers, shelving filters on both ends of the frequency spectrum, and three full parametric EQs (20-200Hz) that can be used to combat standing waves in the control room. The EQ can be bypassed individually or as a group so that their overall effect can be analyzed in direct comparison to the unaffected signal. In large film score mixing rooms, it

may be desirable to have a representation of the sound in the theatres. To meet the ISO 2969 Standard, the Dolby™ X-curve has to be applied.

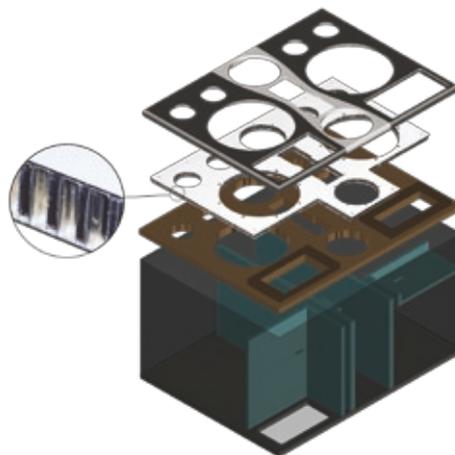
Using pink noise, the X-curve engages a 3 dB per octave roll-off above 2 kHz. Both the S6X and S7A Mk2 have a switch that activates this filter, eliminating the need for external processing during the film mix.



Front panel

Impulse Coupling

In order to get a precise and undistorted reproduction, all drive units are mounted on an ultra stiff 25 mm thick aluminum honeycomb plate, which is acoustically dead - thereby providing an extremely mechanically stable bridge to the cabinet (IC). As the drivers are much better fixed this way their time behavior (and consequently their clarity) is audibly and measurably improved.



IC - Impulse Coupling

Technical Data

Mid- / Subwoofer	2/2
Type	HexaCone
Basket Ø	7.5" / 12"
Voice coil Ø	2" / 3"
Midrange	2
Type	ART
Diaphragm area	26 inch ²
Velocity trans. ratio	3.5:1
Diaphragm weight	0.7 g
Tweeter	1
Type	X-ART
Diaphragm area	4 inch ²
Equiv. Diaphragm Ø	2 inch
Velocity trans. ratio	4:1
Diaphragm weight	0.17 g
General data	
Frequency resp. ±3dB	23 Hz - 50 kHz
THD > 80 Hz	≤0.5 %
Long term output	≥124 dB
Max. peak	≥134 dB
Input impedance	10 KOhm
Weight	103 kg / 227.1 lb
Height x Width x Depth	28.5" x 37" x 19.5"
Warranty	5 years