

AMR

CD-77, AM-77, LS-77

EUR 9800/9800/15400

► **Advantages:**

high-sound quality,
unique design

► **Disadvantages:**

no subwoofer output
on the AM-77

In SV & M № 04/2010 in the article "An elegant heavyweight" we described in detail the CD-77 Compact Disk Processor. Recall once again that this is a real monster, unique in the world of CD-players. We present our remaining components in your stereo - amplifier and speakers. So ...

AM-77 Dual Mono Pre-Main Amplifier

The integrated hybrid amplifier AMR AM-77 – is a good foil for the CD-player CD-77. That is, this reference amplifier is capable of producing the most capricious acoustics with impeccable speed, accuracy and rhythm.

In the preliminary section – the valve stage is Pure Class A. The valves operate at the correct, low voltage and are long-life. The output stage - bipolar transistors, was constructed around its own circuit topology, which eliminates all the disadvantages associated with solid-state based power amplifiers. The AM-77 also offers the ability to synchronise multiple amplifiers - under integrated or power modes there are mono to bridged sub-modes.

The AM-77 amplifier is equipped with both conventional and professional Speakon connectors for connection of speaker cables. On

its front panel is 3.5 mm connector for audio players, for example, an iPod. The AM-77 has a USB port, but it is intended only for charging a portable device via the USB-interface.

Creating this amplifier, the company AMR set out to achieve the maximum disclosure of the nature of its performance. AMR remarked of the AM-77: "Most amplifiers operate in Class A, AB or D. The AM-77 – is quite different and we call this Class X. This explains why the same power regardless of the acoustic impedance of 4 or 8 ohms, the AM-77 functions like a vacuum tube amplifier, but implemented with transistor technology without a transformer output.

This device weighing in at 34 kg has a powerful chassis made from extruded aluminum and a copper bus, which provides excellent suppression of resonances, heat dissipation and electrical shielding. The AMR factory even employed support feet from the aerospace industry for maximum vibration control to reduce any remaining resonance from the aluminum body (which they have designated Optisolate®).

The AM-77 also uses the same cooling approach as the CD-77 with OptiCool® which does without heatsinks.



The line of products that the AMR company manufactures allows one to construct a complete end-to-end stereo system, designed to play CD to a truly uncompromising sound quality level. Today, we will be reviewing the CD-player CD-77, integrated amplifier AM-77 and speaker system LS-77

It must be said that in addition to proprietary solutions, applied to the CD-player, the AM-77 uses a whole bunch of "amplifying" technologies from AMR. We consider some of them here:

Circuitry OptiGain® is based upon a combination of NOS tubes and bipolar transistors operating in Class X. In contrast to the traditional transistor amplifier with feedback and corrective signals after the event, technology OptiGain® allows real-time detection and correction of signal artifacts. The result of this development is a sound that is close to Class A-Valves. When compared to high-end valve amplifiers, more power is the advantage. It is very important, because many models of cool (excellent) acoustics require an amplifier with a decent level of power. AMR developers have created such a powerful amplifier "dual-mono" with OptiGain® circuitry, whose roots go to the technology of this hybrid machine. This can quietly cope with a very "dull" speaker system with a sound signature like a good audiophile sound single-ended valve amplifier is able to do. The AMR engineers noted: "The same principle was used in the earlier years of military use. It seems that we are the first to apply this to audio."

It is known that the single-step (step-by-step) controllers strongly effect the sound quality. Hence the AMR's decision to develop OptiLevel® which uses the principle of relays in the volume stage in a large number of steps, which maintains the dynamic range of the music signal and nuances of the sound. Even at a very low volume, the dynamic range is preserved. The microprocessor control allows you to adjust the volume from the remote control.

The system switching ability of this amplifier via OptiOperation® is intended for different configurations or for use in the home theatre setup.

The protective circuitry OptiProtect® safely protects the amplifier itself and the speaker system from unwanted mains overloads without affecting sound quality.

With no regulation, the OptiPower® power supply is ideal for the precise work of the valve stage.

Inside the AM-77 are manually-selected high-quality components. Here, the PCBs made to military standards, polypropylene capacitors proprietary AMR music capacitors, ultra-quiet Schottky diodes and wiring from FEP silver plated copper wire with teflon insulation.

The AM-77 amplifier arrives in a deluxe aluminum case. The package also includes remote control, professional power cord, a test disk with the tracks for "break-in", documentation and cloth bags for transportation.

According to experts, the huge and heavy AMR AM-77 is in fact very quiet and warms up only at full power. This is a big plus – as it ensures the best acoustics and of the apparatus itself. The AM-77 works as a large vacuum valve amplifier with high output impedance and a low damping factor. As a result, it offers the finest resolution of any amplifier in the audio field. But this is offset by the comfort in listening, sensuality and full-size macrodynamics. In short, he sounds like a push-pull valve amplifier. The disadvantage is that unless there is no output to connect a subwoofer.

LS-77: Professional Monitor

AMR LS-77 – is a reference level professional monitor with the mass of each speaker being made from solid aluminum, weighing in at 35 kg each. This form factor provides much more advantages than traditional materials. Stiffness is one and consequently, far less sound coloration.

The speaker system created by the designers at AMR. With a complete set of different density foam bungs, one can adjust the bass to even make it work as a closed baffle. With a rear panel that offers access to the inner bay for interchangeable resistors of the crossover (included), this allows you to adjust the treble to suit a certain distance to the listener.

The 10-inch bass/midrange makes for great acoustics shelving bass and mids that are comparable to those that provide a separate solid dome head size. The company's "Transmission Line Port Low Frequency Loading" lets you play the bass cleaner and louder in a more compact size. The sound signature is like a large floor-standing speaker.

The Isoplanar 5-inch ribbon RF transmitter provides low distortion and excellent high-frequency ability.

The crossover OptiSlope® minimizes the impact of low-frequency and high frequency speakers on each other. It is assembled by hand, using special coils and German-film capacitors. The technology OptiImage® provides excellent stereos imaging by controlled orientation, which reduces unwanted reflection and reverberations. The whole speaker system allows you to create OptiArray® acoustic systems for large areas while maintaining the orientation of the stage and sound.

In their bookshelf size AMR LS-77 – the acoustics offers a simply stunning realism of all types of genres of music. However, the speaker also has a huge overload capability, and easily copes with playing very loud passages of a good recording.





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