



## ASR\_Emitter I

The Emitter I is the entry model, embodying all the qualities of the Emitter-family. Separate power supply keeps electro-magnetic fields and vibrations away from the control unit.

The power supply unit is equipped with two large and powerful PM (Philbert) transformers with a smaller PM transformer for Standby operation.

The two power transformers are switched ON softly with 6 high power relays in the energy saving mode. If required, they can be switched via a current limiter into normal operation mode.

In the power supply unit, 8 different voltages are generated. Every voltage is rectified individually and pre-buffered. These voltages are used to supply the input amplifier, driver, output stage as well as the control circuit separately.

The Emitter I is connected to the power supply unit with a 2 meter long double shielded cable. The 30 contacts of the plug-in connector are designed individually to handle 16 Ampere. The RCA sockets for the 6 inputs are constructed from gold plated massive brass. The insulator consists of high-quality Teflon. Massive silver wire with a Teflon coating is used for the music conductors. The 60 Amp pole speaker terminals allow up to three loudspeaker cables with connector spades for Bi- or Tri-wiring. 4 mm standard banana plugs can be connected firmly and securely.

To avoid any possibilities of accidental short circuits, the pole terminals are fully isolated and are spaced 40 mm apart.

A wear-resistant step switch adjusts the volume precisely with 32 relays. A micro controller supervises the correct function of all parts of the amplifier and protects it in the case of possible malfunction of the Emitter or the loudspeakers.

The LED-display is of 35 mm in size and is therefore easily seen. It displays all changes performed manually or remotely and switches off after 10 seconds, depending on the setting.

Under the main board double-sided with special thick copper-tin layers, there are 60 qmm mass rails, at which the two boards are mounted for the buffering electrolytic capacitors. Even in our smallest version, there are built-in electrolytic capacitors with a hefty 296.000 uF.

# ASR\_Emitter I

## exclusive version

### Technical data:

- Dual-monaural-construction in single casing, mirrorsymmetrical design · MOS-FET Class A/B technology
- Separate power unit with energy management control · 6 relay driven high level inputs · 1 direct input
- 1 recording output · slot for phone preamplifier or balanced input · volume control with relays in 1dB steps
- LED display as operation indicator · infrared remote control for all functions
- Protection circuits against overload, override, short circuit, excess temperature and DC voltage
- Signal to noise ratio on high level input: 88 dB · Rise time lower than 1  $\mu$ s · Distortion lower than 0.01%
- Damping factor: more then 600 · Power consumption in the standby- operation: 10 VA
- Quiescent power consumption in energy-saving mode with half supply voltage of the output stage: 50 VA
- Quiescent power consumption in normal mode with higher output power capacity: 120 VA
- Dimensions of the control unit: 42x42x18 cm · Dimensions of the power unit: 44x33x15 cm
- Weight of the amplifier: 17 kg, Exclusive 19 kg · weight of the power unit: 28 kg, in the Exclusive version 30 kg

### Declaration of the different devices:

The Emitter I Exclusive is an Emitter I with faster plastic foil capacitors, enlarged buffering of 556.000 uF together with military ceramic control circuits. The Exclusive power unit produces 8 exceptionally clean filtered DC voltages. The input stages are supplied separately. 56 very fast single diodes are inserted for rectification. The Emitter I Exclusive achieves a more precise and a fuller, rounded sound. The most intricate of tones are reproduced tenderly together with a stronger and fuller bass.

The Emitter I Exclusive Duo version has a separate power unit for the left and right channels but is smaller in size than the Emitter II. The Emitter I can be upgraded to the improved and better-equipped Emitter I Exclusive version by a qualified technician. The Emitter I Exclusive can be equipped with a battery power supply unit for the input stage with 400.000 uF additional filtering. The result is exceptionally homogenous, with an airy and relaxing sound.

	output MOS FETs		transformers	Sine 8 $\Omega$	Sine 4 $\Omega$	Sine 2 $\Omega$
Emitter I	12x per 25 Ampere		2x500 VA	2x140 W	2x250 W	2x450 W
Emitter I Exclusive	12x per 25 Ampere		2x700 VA	2x160 W	2x290 W	2x520 W
Buffer capacity:	input 16V	driver 80V	output 63V	control 12V	total	driving chip
Emitter I	86.000 uF	40.000 uF	120.000 uF	30.000 uF	296.000 uF	AD843 JN
Emitter I Exclusive	86.000 uF	40.000 uF	400.000 uF	30.000 uF	556.000 uF	AD843 SQ



The Emitter I Exclusive offers a significant improvement over the Emitter I. While all features of the Emitter I are integrated into the Exclusive version, the sound of the Emitter I Exclusive is even more relaxing, smooth and homogeneous. Through its extremely high speed, the Emitter Exclusive reproduces authentically the three dimensional quality of Live music. Instruments and voices can be readily located with uncanny precision. The Emitter I Exclusive is constructed with 12 high current 150 Watts Power-Mosfet-transistors, a military high grade driving chip, faster foil capacitors and elcos with a total of 556.000 uF and balanced inputs. The Exclusive power supply unit achieves the essential part of the tonal improvements. This unit is equipped with enhanced and more powerful transformers, with improved magnetic core type, 56 ultra-fast rectifier diodes and 166.000 uF capacitors are used for pre- filtering. A special double shielded power cable 6x1,5 qmm with a defined filter characteristic, avoids the influence of high frequency power supply distortions and maintains full dynamics.

