



MICROMEGA

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IA-400 HIGHLIGHTS

The world is changing rapidly and for many audiophiles simplicity and ease of use is now a must. Today, the trend of multiple boxes system seems far away, and the arrival of new types of audio sources, mostly computer based, is increasing the demand for integrated systems.

Micromega, with over 20 years of experience in amplifier development, is proud to announce IA-400, a very powerful integrated amplifier capable of driving almost all types of speakers, even the most demanding ones.

Despite the fact that the unit is integrated, we can consider it as two different units in the same box: the preamplifier section and the power amplifier.

The preamplifier is a very low noise state of the art gain section with extremely low noise power supplies and sophisticated layout to avoid any ground loop. A specific r-core transformer is dedicated to all low levels signals, avoiding cross coupling between the two sections and preventing any disturbance from the mains line to enter the product. Ultra low noise regulators are feeding the preamplifier section to allow very accurate low level resolution. Input switching is done by relays and the input impedance of 100k Ω guarantees that the preamplifier section will not load the different sources connected to it. Volume control is achieved by a digitally controlled resistor ladder with extremely low distortion. The output of the preamplifier section is buffered by jfet amplifiers and then balanced to avoid ground coupling between the preamplifier section and the power amplifier modules.

The power amplifier section has its own 1kVA toroidal "quiet design" power transformer, followed by ultra fast soft recovery rectifiers and 4x 10000 μ F smoothing capacitors in a dual mono configuration. These modules are classD modules with no less that 400W/4 Ω output power capacity. The choice of classD has been dictated by our quest for reliability, size and sonic quality, together with high efficiency and low temperature operation. The modules are protected for under voltage, overvoltage and short circuit. A DC detection circuit prevents any damage to the loudspeakers in case of a dramatic failure occurring to the power modules.

In addition, IA-400 provides a great number of features, some being unique to this kind of amplifiers. A blue VFD display, with 7mm high characters, readable for up to 10m, gives at all time, a clear status of the unit, indicating channel selection and playing level. A balance setup is available and has an indication on the front display.

A very high quality MM phono section will please all vinyl record lovers. A sub out, associated with a pass through sub in, allows for different setup when using the IA-400 in a 2.1 system or when using the IA-400 as front amplifier in a multi channel setup. All inputs can be named from a library list stored in the memory of the unit. Unused inputs can be switched off to optimize access time. A headphone amplifier is available with a front output and its separate volume control setup is stored in the product. A true monitor loop is accessible for users willing to insert an external unit in the signal path.

The case work with its sandblasting finish, available in two colors silver or black, is superb and the build quality is to the highest standards.



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IA-400 TECHNICAL CHARACTERISTICS

AUDIO CHARACTERISTICS

MM Phono Input.....	1
Phono Input sensitivity / impedance.....	18mV/47kΩ
Stereo Analog Inputs.....	5
Analog inputs sensitivity / impedance.....	280mV/100kΩ
Headphone output (Front).....	1
Monitor Loop.....	1
Sub input pass-through.....	1
Sub out.....	1
Sut output cut-off frequency (-3dB).....	400Hz
Processor input.....	1
Pre Out.....	1
Output Power (both channels / 4Ω).....	400W
Frequency response (all loads +0/-3dB).....	10Hz – 50kHz
Power bandwidth	20Hz - 35kHz
Output impedance.....	< 150mΩ / f < .20kHz
Output noise (unweighted 20Hz-20kHz).....	< 30µV
THD (20Hz-20kHz – 1/2 power).....	< 0.01 %
Signal to noise ratio (A weighted).....	> 96 dB

OTHER CHARACTERISTICS

IR remote control.....	Yes
IR remote protocol / frequency.....	RC5 / 36kHz
RS232 remote.....	Yes

POWER SUPPLY

Mains voltage.....	100V-120V-220V-240V
Mains frequency.....	50Hz-60Hz
Power consumption (max).....	1000 W

DIMENSIONS (mm)

Width.....	430
Height (including feet).....	95
Depth (including knobs and Binding Posts).....	365

WEIGHT (Kg)

Total.....	12Kgs
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