

# AMP53

# **Experience the Pleasure of Pure Audio**

Control / Power Amplifier

A compact body packed with cutting edge technology Radically eliminates signal loss and distortion







A compact control/power amplifier designed for the pure musical reproduction equipped with unique DIGM volume control and LEF circuit. The shortest possible signal path in circuitry without preamp section and global feedback loop realizes the finely-textured colourful expression and quick response.

#### **Integrated DIGM**

DIGM (Digital Intelligent Gain Management) is the ultimate in volume control technology. DIGM adjusts volume digitally by switching metal-film resistors with a unique array of bipolar class-A switches. It digitally recalibrates the amplifier gain in 66 steps, without dividing and downgrading the input signal. The AMP53 maintains the input signal undiluted and offers an unprecedented 66 picture-perfect amplifier gains digitally calibrated for volume selection.

#### **Balance adjustment without additional circuitry**

The AMP53's DIGM volume control enables digital adjustment of the left and right output balance, with no dilution to the input signal and no enlargement of the signal path, in 1dB increments up to +10dB.

#### Fully balanced power amplifier design

All circuitry in the AMP53 are fully balanced from head to toe from input signal entry to where the output meets the speaker terminal. This enables a radical reduction in noise and distortion, and an improvement in sound quality. The left and right signals, moreover, are processed through independent, dedicated circuitry to achieve channel separation and high-quality stereo imaging.

## Two balanced and two unbalanced RCA input connections

The AMP53 was designed to give preference to two balanced XLR input connections, providing the best match for CEC's TL53Z CD player, DA53 DA converter and PH53 phono preamplifier from the same design series. System integrity is maintained for RCA connections by converting the unbalanced signal to a balanced signal at the point of entry to the amplifier.

# **Two-stage input sensitivity**

For balancing the output volumes among different sources closer in line, the AMP53 offers a 6dB-gain option independently for each input connection. This minimizes the volume adjustments required when alternating sources between CD/DVD players and the 0dBU tuners/phonograph preamplifiers.



#### **Eight 15A power transistors**

The AMP53 is equipped with eight 15A power transistors to maintain high power even under complex loads, improving thermal reliability and ensuring safe operation of the amplifier at all times.

### High 120W X 2(8 $\Omega$ ) power

The AMP53's power belies its modest size, by packing  $90000\mu F$  capacitors as well as a 300W toroidal transformer combined with its LEF circuitry.

#### **Heavyset extruded-aluminium enclosure**

The AMP53's heavyset extruded-Aluminium enclosure and volume adjustment knob combine beauty, stability and high cooling efficiency. Air is vented in from the top-back, cooling a large heat sink located directly under the top cover, and discharged from the base-centre by a fan in the undercarriage.

#### Internal temperature control system

The AMP53 monitors its internal temperature with a sensor and automatically controls airflow within its cooling system, maintaining thermal conditions optimal, with help from its proprietary, virtually noise-free ferromagnetic bearing fan.

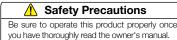
#### **Two alphanumeric VF-Displays**

Two VF-displays convey all functional information including volume, input selection and internal temperature.

#### **Specifications**

| Audio unit          |  |
|---------------------|--|
| Output power        | 120W+120W(8Ω)                                      |
| Frequency response  | 10Hz - 200kHz / +0 / -0.2dB / 1W                   |
| S/N Ratio           | XLR 101dB, RCA 91dB (flat / 1W)                    |
| THD                 | XLR 0.0028%, RCA 0.016% (1W/1kHz)                  |
| Dumping Factor      | 235  |
| Input / Output      |  |
| Input terminals     | 2 x balanced XLR input, 2 x unbalanced RCA input   |
| Input gain          | 0dB, +6dB  |
| Output terminals    | Speaker Output x 1, REC OUT (RCA) x 1              |
| General             |  |
| Power supply        | AC 120/230V, 60/50Hz (Specified on the rear panel) |
| External Dimensions | 217.5(W)×448(D)×108(H)mm (incl. Leg and termi-     |
|                     | nal)   |
| Weight              | 9.6kg  |
| Accessories         | AC power cord, Remote control, Owner's manual      |

<sup>\*</sup>Specifications and design are subject to change without notice



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