

Chameleon

power amplifier



NO GOING BACK

By rethinking the accepted principles of amplifier construction, the designers of Chameleon have presented the

industry with a totally new standard against which all other amplifiers will now be measured.

Brilliant technological innovation has created an amplifier which produces a full 2000 watts of sonically transparent audio power in a housing only one unit high.

A new era in professional audio amplification has dawned - the parameters have all changed.

Like its namesake, Chameleon can instinctively adapt to an altered environment, optimising its power to suit the workload.

There is no going back!



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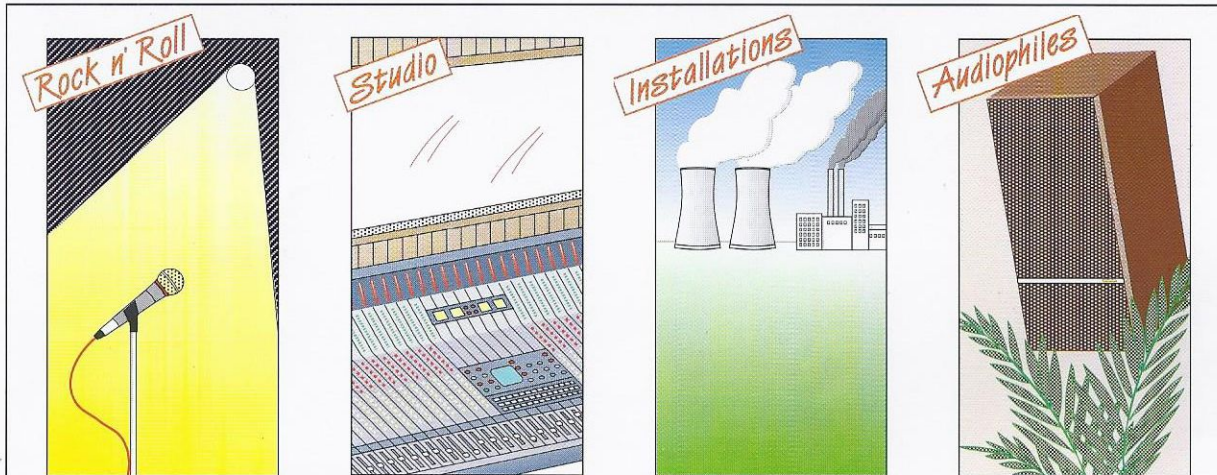
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Ultimately, every amplifier is judged by its audio quality, and Chameleon auditions superbly.

The effortless ease with which it handles transients; its wide dynamic range, and audio transparency, prove that all amplifiers are not created equal.

Chameleon delivers startling audio clarity!



Rock n' Roll

Chameleon is built to take care of itself, even in the rough and tumble world of heavy duty sound reinforcement.

"Small, light; instant set-up; phenomenal power - and utterly reliable. Built from custom extrusions, Chameleon is tremendously tough, and reflects my 20 years experience designing touring amplifiers."

Studio

Top recording and broadcast studios demand from their amplifiers a very wide dynamic range, absolute audio integrity and ambient silence.

"Careful component specification and stable operating temperature guarantees consistent sound - amp to amp; session to session; year to year - giving the engineer total confidence in his reference monitors."

Installations

Whether cruise ship, convention centre, disco or power station, Chameleon is designed to continue working day after day, year after year.

"All Chameleon's components are specified 20,000 hour continuous use minimum. Inputs are fixed 20k balanced, and outputs can happily tolerate multiple speaker configurations or 70/100V line transformers."

Enlightened Audiophiles

The technical excellence which makes Chameleon readily accepted by critical professionals has a stunning effect when driving Hi-Fi systems.

"Linear, non-switching circuitry, uncorrupted signal path - plus 210V p.p. available for even the most insensitive of loudspeakers. With 'soft start' turn-on and attractive styling - every home should have one!"

Malcolm Hill

Chameleon power amplifier

THE BREAKTHROUGH

The Chameleon Principle

Under extreme conditions, where conventional amplifiers may shut down completely, Chameleon will automatically - and silently - shift to "Head Lok" mode. This reduces dynamic headroom, allowing Chameleon to maintain uninterrupted output, but with less dynamic range.

2000 Watts - 1 Unit High

Radical design has at last made available a two channel, rack mounted power amplifier producing a full 1000 watts from each channel, in a package only 1U (44mm / 1 3/4") high. This of course provides substantial savings in both rack space and shipping costs.

Audio Integrity

Ultra-linear, non-switching electronic architecture ensures true audio transparency - critical to the professionals for whom Chameleon was created.

Reliability

Defying its sophisticated styling and low profile, Chameleon is a no compromise, heavy duty workhorse. A carefully devised 5 mode protection system ensures that the amplifier and loudspeakers are safeguarded against operational misuse and internal failure; in temporary overload situations, only the effected channel is muted. The protection system is totally isolated from the audio path, allowing complete audio integrity to be maintained.

Heat Sinks

Viewing the amplifier at its side edges reveals the ingeniously designed heat sinks. Their revolutionary exponential shape greatly amplifies air flow, keeping components running cool - a vital factor in hard working conditions.

Gain Controls

Precise, illuminated, push-button gain controls take the guesswork out of lining up audio levels. With no unnecessary knobs and switches to clutter and confuse, this amplifier is built for hard working professionals who have no time to waste.

Front Panel

The dramatically contoured front panel slopes upwards, ensuring that controls are clearly seen and easy to reach. The front panel air duct is also a convenient hand hold for sliding the amplifier out of a 19 inch rack.

Dual/Mono/Bi Amp

- 1000 watts per channel stereo -
- 2000 watts bridged mono -
- 2 x 1000 watts dual channel mono -
- 1300 watts single channel -
- 1200 watts + 800 watts bi-amp, * -
- * (when using separate electronic crossover)

"Soft Start"

Professional amplifiers developing this level of power create a significant current surge on turn-on. A Soft Start circuit ensures that Chameleon avoids such problems even when connected to a domestic AC supply.

Super efficiency doesn't have to be boring; it can also lead to superb styling!



Control and Connection Details:

Front Panel:

- AC Power "On" LED indicator
- On/Off AC Power Switch - positive click action.
- "Head-Lok" LED - active when Chameleon has changed from "Headroom" to "Head-Lok" mode.
- Digital Illuminated Gain Controls - precise, push-button, punch-in settings.
- "Signal" LEDs - activated when adequate signal is present at the output.

- "Peak" LEDs - indicate when the channel level approaches clipping.

Rear Panel:

- 1/4" Jack Sockets - Line Inputs and parallel Outputs allow amplifiers to be easily cascaded (balanced or unbalanced).
- XLR Line Input Sockets - parallel to jacks. Electronically balanced to reduce the risk of ground loop hum.

- Mono Bridging Switch
- Heavy Duty 4 Way Binding Posts - allow a variety of loudspeaker terminations to be made.
- Ground (Earth) Lift Switch
- AC Power Module - containing fuse holder and IEC AC inlet.
- Voltage Selector Switch (if fitted) - for quick and easy changeover between AC supply voltages.

Technical Specifications:

OUTPUT POWER (both channels driven)	8Ω	4Ω (& 8Ω bridge)
Transient Power (RMS 20ms/80ms)	1350W	2200W
Dynamic Power* (RMS 200ms/800ms)	1000W	1500W
Sinewave Power (RMS 2M/8M)	800W	1200W
OUTPUT POWER (single channel driven)	8Ω	4Ω
Transient Power (RMS 20ms/80ms)	700W	1350W
Dynamic Power* (RMS 200ms/800ms)	625W	1000W
Sinewave Power (RMS 2M/8M)	500W	800W

Intermodulation Distortion (SMPTE):	0.1W - clipping	<0.01%
Total Harmonic Distortion (DIN):	typical	1kHz : <0.003%
	0.1W - clipping	20Hz - 20kHz : <0.025%
Crosstalk:	referred to 500W/8Ω	1kHz : <-80dB
		20Hz - 20kHz : <-70dB
Noise:	referred to 500W/8Ω	<-105dBA
Slew Rate:		>100V/μs
Rise Time:		2μs

Damping Factor:	50Hz/8Ω	>500
Frequency Response:	20Hz - 20kHz	+0.1/-0.25dB
Input Sensitivity:	referred to 600W/4Ω	1.0V
Input Impedance:		20kΩ

Dimensions:

Height:	1U 44.25mm (1.74")
Chassis Depth:	502mm (19.76")
Chassis Width:	438mm (17.25")
Weight:	13kg (29lbs)

* Dynamic Power is an indication of Chameleon's continuous power capability when amplifying a music or speech source.