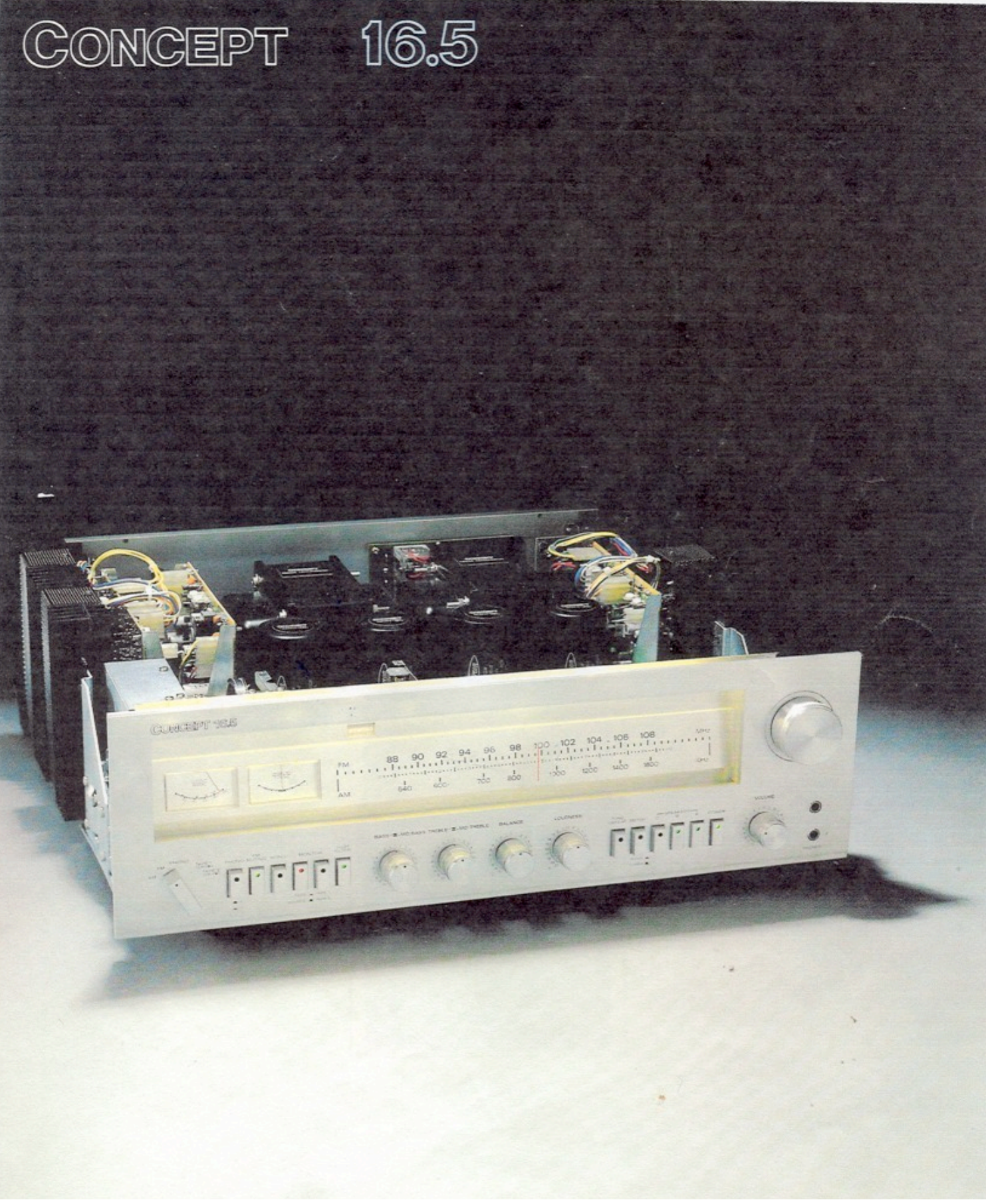
CONCEPT 16.5



The Design

CONCEPT — the result of a concerted effort to design a line of stereo receivers without compromise in any area. Every detail, from the action of the controls to the surface area of the internal heat sinks, has been carefully thought out and crafted by a distinguished, specialized international team of designers and production engineers. A laboratory standard of performance is complemented by bold visual definition. The final product is an instrument that will satisfy the most discerning audiophile.

There are five CONCEPT receivers, expressions of the same design philosophy. The more expensive CONCEPT models are designed for those who need more power or greater control flexibility; yet the five CONCEPTs are far more alike than different. The sound is the same.

Experience the calm authority of CONCEPT now. Look at it, operate it, and most of all, listen to it. You'll find the least expensive CONCEPT will prove more exciting than the best competing model. CONCEPT — the ultimate synthesis of the technical, the visual and the tactile. There may be attempts to copy it, but CONCEPT is the original.

The Controls

The CONCEPT receiver's controls and control layout provide you with full access to the sonic excellence of the circuitry, and the CONCEPT's versatility will enhance the performance of the rest of any system.

All of CONCEPT's binary (on-off) functions are controlled by newly-developed push switches. Light-emitting diodes (LED's) are built into the switches to provide positive visual indication. These indicators, which won't burn out, glow red on the tape monitor switches and green on all others. The tape monitor function has been carefully thought out for the most logical operation. It facilitates the use of two tape machines in conjunction with the CONCEPT; you can monitor either deck and dub from one to the other.

CONCEPT's tuning assembly is yet another manifestation of the total design philosophy. A generous machined tuning knob, attached to a heavy flywheel, rotates smoothly with a light touch for ease in station changing and very precise tuning

The Detail

The front panel is a heavy aluminum extrusion with a rich brushed finish. All markings are actual calibrations, distinct and easily read. The dial lighting has been carefully coordinated for maximum visibility without glare.

The rear panel too is the result of user-oriented study. All speaker and antenna connections are made at color-coded push terminals that provide safe, positive contact. AC convenience outlets are provided as well, to facilitate hook-up of other components.

CONCEPT — a receiver design clearly thought out, and perfectly executed. You can hear the result.

Concept 16.5

The magnificent CONCEPT 16.5 is the ultimate expression of the CONCEPT design philosophy. Engineered to exceed the performance of expensive component separates, the CONCEPT 16.5 is without peer as a receiver. The 16.5 is the only high-powered receiver with *fully* independent dual power supplies; *two* oversized power transformers and four 10,000 μF electrolytic capacitors help provide the 16.5 with an awesome power output. And because neither channel ever interferes with the other, the sound of the 16.5 is uniquely unstrained.

All of the outstanding features standard on the CONCEPT line are incorporated in the 16.5, plus some others that are unique. The 16.5 uses a precision *5-gang* tuning assembly; and there are two phono inputs with a convenient switch that permits you to A-B phono cartridges. Individual industrial-grade relays are used to switch the speaker systems.

The CONCEPT 16.5. Truly the ultimate in sound reproduction.

16.5 Specifications

Power Amplifier Section*
Continuous power output of 165 watts per channel minimum RMS into 8 ohms (22.2 dBW), or 250 watts per channel minimum RMS into 4 ohms (24 dBW), both channels driven, from 20 to 20,000 Hz with no more than 0.1% total harmonic distortion.

Typical THD at Full Power: Less than 0.03%
Frequency Response: 20 to 20,000 Hz ± 0.2 dB
IM Distortion (50 Hz: 7 kHz = 4:1): typically less than 0.05%
1V Peak-to-Peak Rise Time: 2 μSec.
Damping Factor: Greater than 450 at 20 Hz
Hum and Noise, weighted: − 90 dB
Outputs: Speakers A, B, C or any 2 together; 2 Lo-Z headphone

Preamp Section
Input Sensitivity:
Phono 1 & Phono 2, 1.9 mV;
Tape 1 & Tape 2, 160 mV
Phono Overload: 200 mV
Phono Frequency Response: 30 to 15,000 Hz, ±0.2 dB to RIAA curve
Tone Controls:
Bass, ± 6 dB at 50 Hz in 2 dB steps;
Mid Bass, ± 10 dB at 100 Hz in 1 dB steps
Treble, ± 6 dB at 20,000 Hz in 2 dB steps
Mid Treble, ± 10 dB at 10,000 Hz in 1 dB steps
Loudness Contour at −30 dB at maximum setting: +8 dB at 100 Hz, +4 dB at 10,000 Hz
High Filter: −10 dB at 7,500 Hz, 6 dB/octave
Volume Control Balance: within 0.3 dB tracking
Signal-to-Noise Ratio:
Phono 1 & Phono 2, 78 dB unweighted, 84 dB weighted;
Tape 1 & Tape 2, 85 dB
Main In, 90 dB
Residual Hum and Noise 0.5 mV
Crosstalk at 1 kHz: −65 dB

FM Tuner Section**
Sensitivity: 9.3 dBf (1.6 μV) at 300Ω
50 dB Quieting Sensitivity: mono, 13.2 dBf (2.5 μV); stereo, 36.4 dBf (36 μV)
Signal-to-Noise Ratio at 65 dBf: 72 dB
Stereo Separation: 52 dB at 1 kHz, 42 dB at 100 Hz, 40 dB at 10 kHz
Distortion at 65 dBf: mono, 0.08%; stereo, 0.1%
Frequency Response: 30 to 15,000 Hz ± 0.5 dB
Capture Ratio: 0.9 dB
Alternate Channel Selectivity: 90 dB
Spurious Response Ratio: Better than 110 dB
Image Response Ratio: Better than 110 dB
IF Response Ratio: Better than 110 dB

AM Tuner Section
IHF Sensitivity: 175 μV/m
Image Response Ratio: 67 dB
Signal-to-Noise Ratio: 50 dB

General
Dimensions:
Width, 21⅛" (53.7 cm)
Height, 7" (17.8 cm)
Depth, 17" (43.2 cm)
Weight: 67 lbs. (30.5 kg)

*Measured in accordance with the Federal Trade Commission rule on power output claims.
**Measured in accordance with the latest IHF standards.