




## audio research Reference 160M Monaural Power Amplifier Owner's Manual

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audio research Reference 160M Monaural Power Amplifier



## Monaural Power Amplifier



After two years in development, the new Reference 160M Monaural Power Amplifier is built like no other, looks like no other, and sounds like no other amplifier that you have ever heard, but it is unmistakably Audio Research. It features a refined audio topology with fewer and better components in the signal path than in previous designs, switchable Ultralinear/Triode operation, proprietary auto-bias, output tube monitoring and protection, an advanced power meter, and much more. This array of features has never been offered before in an Audio Research amplifier. The designers at Audio Research wanted to create a new style that would complement the look of the REF6 preamp while also featuring a transparent faceplate that allows a view of the glowing KT150 vacuum tubes. While the GhostMeter™ allows you to see the output tubes, it also incorporates an innovative dual-layer construction with distinctively etched markings that create an integrated power meter. The power meter's output-level markings illuminate via hidden LEDs, and the illumination brightness is adjustable.

## SPECIFICATIONS

- **Power Output:** 140 watts continuous from 20Hz to 20kHz. 1kHz total harmonic distortion is typically 1% at 140 watts, below 0.04% at 1 watt. (Note that actual power output is dependent upon both line voltage and "condition" i.e.: if power line has high distortion, maximum power will be affected adversely, although from a listening standpoint this is not critical).
- **Power Bandwidth:** (-3dB Points) 5Hz to 70kHz.
- **Frequency Response:** (-3dB points at 1 watt) 0.5Hz to 110kHz.
- **Input Sensitivity:** 2.4V RMS Balanced for rated output. (25.5 dB gain into 8 ohms).
- **Input Impedance:** 300k ohms Balanced; 100k ohms Single-ended.
- **Output Polarity:** Non-inverting. Balanced input pin 2+ (IEC-268).
- **Output Taps:** 16 ohms, 8 ohms, 4 ohms.
- **Output Regulation:** Approximately 0.6dB 16 Ohm load to open circuit (Damping factor approximately 14).
- **Overall Negative Feedback:** 14dB.
- **Slew Rate:** 13 volts/microsecond RISE TIME: 2.0 microseconds.
- **Power Requirements:** 105-130VAC 60Hz (210-250VAC 50Hz) 400 watts at rated output, 700 watts maximum, 260 watts at "idle", 1 watt off.
- **Tube Complement:** 2 matched pair KT150 (Power output V1-4); 2 6H30 (Gain stage V5 and V6).
- **Dimensions:** Width 19.0" (48.26 cm), Height 10.25" (26 cm), Depth 18.5" (46.4 cm). With Handles and
- **Connectors:** 20.75" (52.7 cm).
- **Weight:** 56lbs (25.5 kg) Net, 73lbs (33.2 kg) Shipping.

## HIGH DEFINITION

## Documents / Resources



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## References

-  [Audio Research – High-end audio equipment](#)