

# NAD 214

## Stereo Power Amplifier

- **2 x 80 Watts continuous power into 8ohms**
- **Dynamic Power 110, 180, 250 Watts into 8, 4 and 2 ohms**
- **Low loss, massive Holmgren™ toroidal mains transformer**
- **Dual mono, Left and Right mirror image amplifier PCBs**
- **Protection circuitry senses short circuits, DC and overheating**
- **Bridgeable; 240 W into 8ohms; 500 dynamic power into 4ohms**

The all-new NAD 214 is part of a new range of power amplifiers which will further enhance NAD's enviable reputation for state of the art products at sensible prices.

The key design goals of the new range are PERFORMANCE and RELIABILITY. Both are attained at a very competitive price through efficient innovative design, simple circuitry and meticulous engineering.

### **Circuitry**

The NAD 214 is designed with the capability to drive all types of musical signals effortlessly into the even most unreasonable of loudspeakers loads, down to below 1ohms. This is achieved by implementing a high output current amplifier powered from a "stiff" power supply.

Pioneered by NAD for the highly acclaimed 208THX , the 214 couples a bank of reservoir capacitors to a large toroidal transformer. Using a bank of capacitors rather than a single pair is both technically superior and more economical.

The special Holmgren™ toroidal transformer has less hum and magnetic leakage than conventional toroidal transformers but retains the usual benefits of high efficiency and high power to weight ratio.

The entire "front-end" is fed from a separate low-noise, high voltage, discrete component regulated power supply which effectively isolates the amplifier from power ripple and noise. Careful design incorporating sensible grounding results in an amplifier with an exceptionally clean, noise free output signal.

### **Additional features**

For maximum flexibility, the NAD 214 can operate in bridged mono mode, typically tripling its continuous power rating into 8ohms. This makes the NAD 214 an ideal choice for a sub-woofer amplifier or high power centre channel amplifier in home theater applications. A pair of bridged NAD 214 's becomes a high current, high power stereo power amplifier, while retaining the refinement associated with smaller amplifiers.

The output relay protection circuit provides silent switch on and off, together with non-evasive protection against error conditions such as short circuits and overheating.

The NAD 214 also incorporates NAD's acclaimed switchable "Soft Clipping" circuit which significantly reduces the risk of damage due to prolonged high power operation.

### **The listening experience**

The technological effort behind the NAD 214 results in a relaxed unstrained musicality with transparent , airy high frequencies, a deep, solid bass foundation and a smooth well-integrated midrange.



## SPECIFICATIONS - NAD 214

### Stereo Mode

|  |                     |                 |
|--|---------------------|-----------------|
| CONTINUOUS AVERAGE OUTPUT POWER  |                     | 80W (19dBW)     |
| <small>(Minimum power per channel, 20Hz-20kHz, both channels driven, with no more than rated distortion)</small> |                     |                 |
| Rated distortion <small>(THD 20Hz-20kHz)</small>   |                     | 0.03%           |
| Clipping power <small>(maximum continuous power per channel)</small>   |                     | 105W            |
| IHF dynamic headroom at 8  |                     | +1.5dB          |
| IHF dynamic power  | 8                   | 110W (20.4dBW)  |
| <small>(maximum short term power per channel)</small>  | 4                   | 180W (22.6dBW)  |
|  | 2                   | 250W (24 dBW)   |
| Slew rate  |                     | >60V/ $\mu$ sec |
| Damping factor <small>(ref. 8 , 50Hz)</small>  |                     | >200            |
| Input impedance  |                     | 60k + 500pF     |
| Input sensitivity <small>(for rated power into 8 )</small>   |                     | 0.9V            |
| Voltage gain   |                     | x 28.3 (29dB)   |
| Frequency response 20Hz-20kHz  | -3dB at: 2Hz/100kHz | $\pm$ 0.2dB     |
| Signal/Noise ratio   | ref 1 W             | 98dB            |
|  | ref. rated power    | 115dB           |
| THD + SMPTE I.M. + IHF I.M.  |                     | <0.03%          |

### Bridged (Monophonic) Mode

|  |   |               |
|--|---|---------------|
| CONTINUOUS AVERAGE POWER OUTPUT INTO 8   |   | 240 (23.8dBW) |
| <small>(Minimum power per channel, 20Hz-20kHz, both channels driven, with no more than rated distortion)</small> |   |               |
| IHF dynamic headroom at 8  |   | +1.8dB        |
| IHF dynamic power  | 8 | 360 (25.6dBW) |
| <small>(maximum short term power per channel)</small>  | 4 | 500 (27dBW)   |

### Physical Specifications

|                        |                    |
|------------------------|--------------------|
| Dimensions (W x H x D) | 435 x 128 x 383 mm |
| Net weight             | 11.3kg             |
| Shipping weight        | 12.8kg             |

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NOTE: NAD reserves the right to change specifications or design at any time without notice. All specifications are those in effect at time of printing.