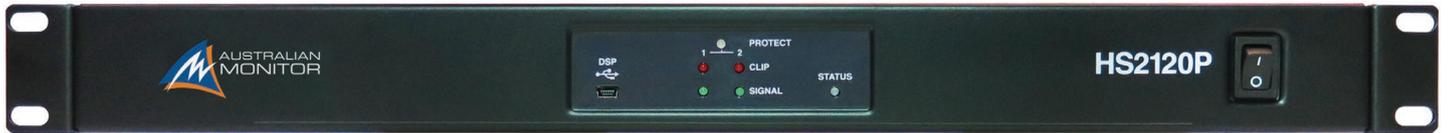# HSP Power Amplifier

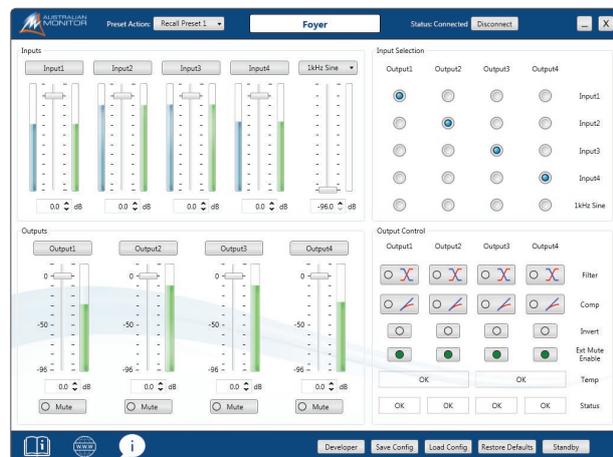## HS120P, HS250P, HS2120P, HS2250P, HS4120P, HS4250P

The HSP series is Australian Monitor's next generation of controllable Class D power amplifiers, delivering high quality audio reinforcement with the power you need in the following options – Single channel 120W or 250W, Dual channel 120W or 250W and Quad channel 120W or 250W.

Our new power amplifiers are fully featured, including an efficient Class D amplifier, USB and RS232 control and a mini DSP featuring volume control, mute, compressor/limiter and input channel selection.

The HSP series power amplifiers give the AV contractor a reliable amplifier for applications that are price sensitive yet still require high quality commercial sound reinforcement and control.

## Features:

- HS120P – 1x120W, HS250P – 1x250W
- HS2120P – 2x120W, HS2250P – 2x250W
- HS4120P – 4x120W, HS4250P – 4x250W
- Class D amplifier technology
- USB and RS232 control
- miniDSP: > Volume control
    - > Muting
    - > High/Low pass filter
    - > Compressor/Limiter
    - > Input channel selection
    - > Invert
- Software graphic user interface control
- External Mute, Standby and Fault control
- Signal, clip and protection indicators
- 4Ω and 70V / 100V outputs
- Rack mount size
    - > 1 RU for 1 and 2 channel amplifiers
    - > 2 RU for 4 channel amplifiers
- Fan cooled
- Universal switchmode PSU with PFC

PC application User Interface

Back Panel (HS4250P shown)

# Specifications

| Model | HS120P | HS250P | HS2120P | HS2250P | HS4120P | HS4250P |
|---|---|---|---|---|---|---|
| **AMPLIFIER** | | | | | | |
| Topology | Class-D | | | | | |
| Channels | 1 | | 2 | | 4 | |
| Power Ouput (per channel) | 120W | 250W | 120W | 250W | 120W | 250W |
| Input sensitivity | 1Vrms | | | | | |
| Frequency Response 4Ω | 20Hz - 20kHz | | | | | |
| Frequency Response 100V | 100Hz - 16kHz | | | | | |
| Signal to Noise Ratio | > 90dB | | | | | |
| THD+N. 4Ω, 8Ω. 1kHz | < 0.2% | | | | | |
| THD+N. 100V. 1kHz | < 0.2% | | | | | |
| Overload protection | Temperature, Over/Under Voltage, Short, DC | | | | | |
| Audio Input Connectors | 1x3 euroblock plug (3.81mm) | | | | | |
| Audio Output Connectors | 6 pin Screw Terminal per channel | | | | | |
| **CONTROL** | | | | | | |
| Communication | Front Panel – USB 1.1 (mini type B)    Rear Panel – RS232 (1x3 euroblock plug 3.81mm) | | | | | |
| DSP | Volume Control    Channel Mute    High/Low pass filter (Butterworth, Bessel, Linkwitz-Riley)    Compressor/Limiter    Input channel selection    Channel invert | | | | | |
| Status | 1x4 euroblock plug (3.81mm)    Inputs - Standby, Mute    Output - Fault | | | | | |
| Software | WinXP to Win 10, 32/64 bit Windows installed application | | | | | |
| **MISCELLANEOUS** | | | | | | |
| AC Input | 220-240Vac, 50-60Hz | 100-240Vac, 50-60Hz | | | | |
| AC Power Factor | N/A | >0.95 | | | | |
| Mounting | 1 RU | | | | 2 RU | |
| Dimensions (W x D x H) (including rack ears) | 483mm x 328mm x 44mm (19" x 12.91" x 1.73") | | | | 483mm x 389mm x 89mm (19.02" x 15.32" x 3.50") | |
| Dimensions (W x D x H) (excluding rack ears) | 435mm x 328mm x 44mm (17.13" x 12.91" x 1.73") | | | | 435mm x 389mm x 89mm (19.02" x 15.32" x 3.50") | |
| Operating Temperature | 0°C to 40°C (95% RH) | | | | | |
| Cooling system | Convection | Fan assisted convection cooling | | | | |
| Colour | Black | | | | | |