SP-N208 8 input & 8 output signal processor (With PC software)



Functional features

* DSP audio processing, including 5A core algorithms of automatic mixing (AM), automatic gain (AGC), feedback cancellation (AFC), echo cancellation (AEC) and noise cancellation (ANC);
* Input: front stage amplifier, signal generator, expander, compressor, 5-segment parameter equalization, automatic gain, Dodger, etc;
* Output: 8-segment graphic equalization, delay device, frequency divider and limiter;
* Full function matrix mixing function;
* USB recording and background playing function;
* Support Windows client;
* Support external RS232 control;
* Support scene preset function;
* Power failure automatic protection memory function;
* Chinese name can be set independently for each channel;
* Support RS232, RS485 and GPIO control interface;
* Test signal generator, sine wave, pink noise and white noise;
* Input phase switch, mute switch and phantom power supply switch;
* Parameter equalization of 5 sections of each channel - 15 to + 15Hz;
* The compressor threshold of each channel is - 72 to 0 dBfs, and the compression output is 0 to - 72 dBfs;
* Automatic gain ratio of 1 to 20 per channel;
* The feedback suppression function has input and output switches, the echo suppression function has three modes and five levels, and the noise suppression function has five levels;
* The maximum delay of each channel is 2S;
* Each output channel has independent high-low pass filtering, 3 modes, 8 levels and independent switch;
* Each channel is independently balanced in 31 sections as shown in the figure, with three optional Q values, - 15 to + 15dB range regulation, independent switch control and one key reset;
* The limiter threshold of each channel is - 48 to 0 dBfs, and the recovery time is 1 to 1000ms;
* Output independent switch and phase switch of each channel;
* Flexible switching between Chinese and English;
* One key display of all functional modules;
* Randomly store Chinese help documents and software;
* Random generation of central control code;
* 10 users are allowed to manage the same host, and the user name can be set to Chinese;
* The equipment name can be modified, and Chinese name is allowed;
* You can edit the preset mode, create, delete, modify, and one click initialization. The preset mode can be stored in the computer and restored with one click,

Item NO.	SP-N208
Processor	Ti 456mhz flops DSP
Power rejection ratio	80dB
Signal to noise ratio	>100dB
Distortion	0.03% @ 100W, 20 ~ 20KHz
Maximum analog gain	42db
Maximum number of analog channels	08 in and 08 out
Quantization bits	24bit
Sampling rate	48K
Frequency response	20 ~ 20kHz(± 0.2db)
Phantom power supply	48V
Maximum level (input / output)	+ 24dbu, balanced
Equivalent input noise	≤ - 131dbu
Total harmonic distortion + noise	< 0.002% @ 4dbu
Input impedance (balanced)	20K Ω
Output impedance (balanced	100 Ω
Bottom noise	- 87dbu
Delayed storage	2S
System delay	3MS