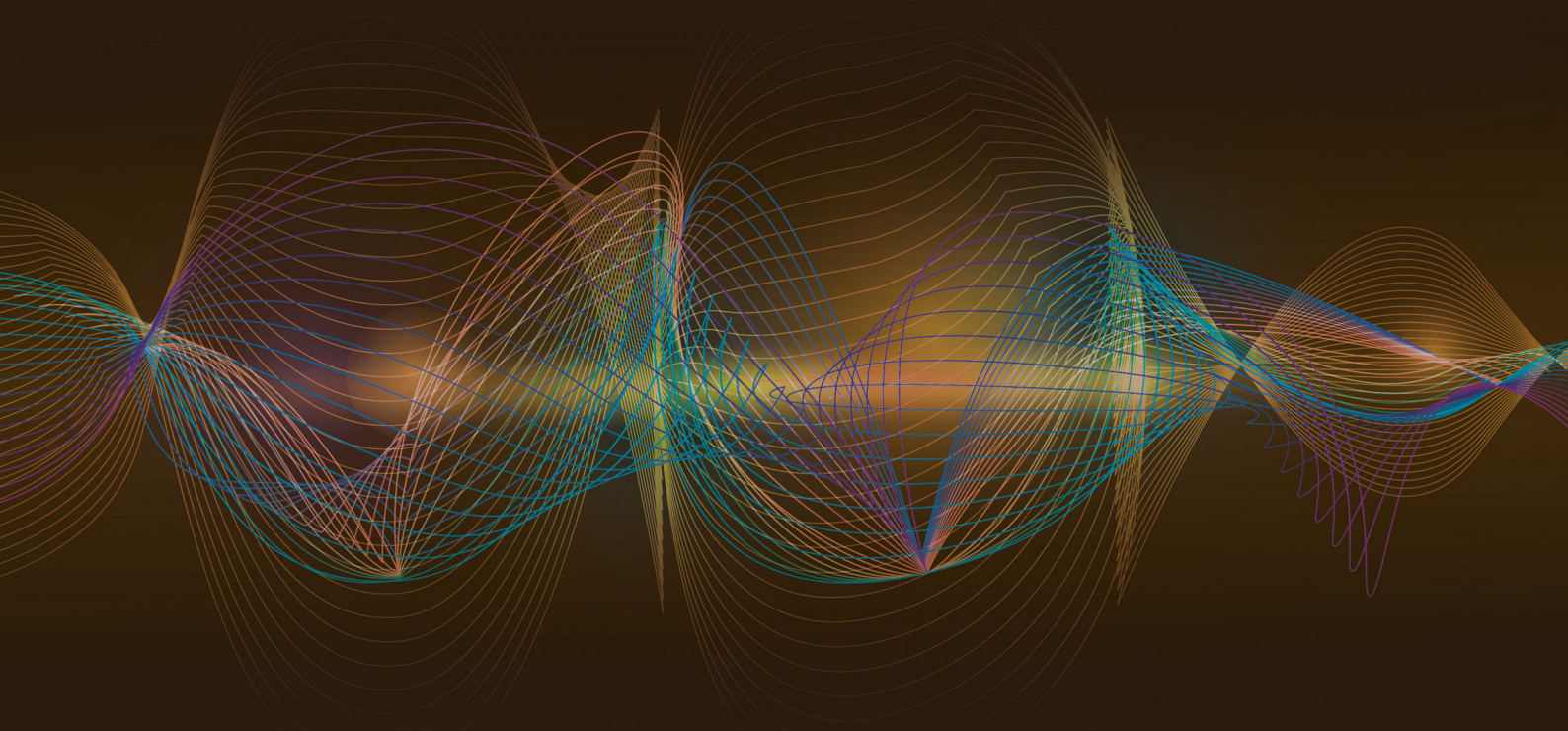


PROLINE

pulz[®]



SIGNAL PROCESSING

DSS36



FEATURES

- 3 analog inputs and 6 analog outputs
- 24 bit A/D and D/A convertor
- 96kHz sampling rate
- 6 PEQ per input and 6 PEQ per output
- 8th order filters for crossover
- USB and optional Wireless connectivity
- Robust Linear power supply for high reliability and low noise spectrum

The DSS36 3-In, 6-Out Digital Speaker Processor is designed to deliver high quality DSP processing and superb audio quality and adequate control options for professional sound reinforcement for cinemas, fixed and touring installations, nightclubs, large venue sound systems and more.

The DSS36 features 24-Bit A/D converters 96kHz sampling rate and an array of DSP functions that include crossover, time delay features, compression, limiting, feedback control features and much more.

An intuitive 2 X 24 back-lit LCD display helps navigate options through its extensive feature set and is also easy to see in dimly lit venues. The 8-LED for input/output displays level and status of the signal. The DSS36 will store up to 30 total presets. A preset file captures all current settings and stores complete control data for all channels and all audio functions.

SPECIFICATIONS:

Input Impedance	Balanced: 20K Ω
Output Impedance	Balanced: 100 Ω
PC Port	1 X USB (front panel), 2 X RS485, 1 X RJ45 (back panel)
CMRR	>63dBu at 1kHz
Input Range	\leq +25dBu
Frequency Response	20Hz – 20kHz(+/-0.5dB)
S/N Ratio	>118dB
THD	<0.01% output=0dBu/1kHz
Crosstalk of Channels	>88dB at 1kHz

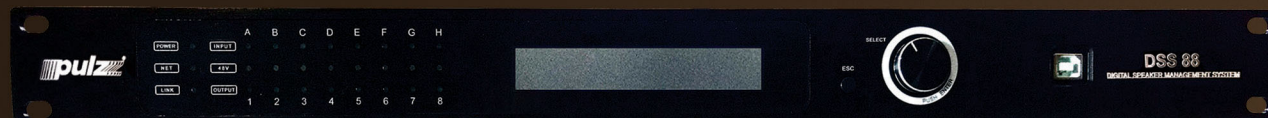
Functions of Input Channels

Input Mute	Mute/Unmute selection for each input channel
Input Delay	Each input channel has a separate delay control, adjustable range of 0-1000ms, step: 21us increment till 10ms, step size: 84us from 10ms-20ms, step: 0.5ms from 20-1000ms
Input Polarity	In-phase(+) or Reversed phase(-)
Input EQ	Each input channel has 6 parametric EQ
Input Gain	Input gain range: -80dB ~ +12dB, step size: 0.2dB
Input Compression	Threshold: -40dBu ~ +20dBu, step size: 0.5dBu; Compression ratio: 1.0:1 ~ 20:1, step: 0.1 for 1.0:1 ~ 2.0:1, step: 0.5 for 2.0:1 ~ 20.1; Attack time: 0.3ms ~ 200ms, Release time: 50ms ~ 5000ms
Automatic Gain Control	Threshold: -80dBu ~ +20dBu, Target: -80dBu ~ +20dBu, step size: 0.5dBu; Ratio: 1:1.0 ~ 1:20, step: 0.1 for 1:1.0 ~ 1:1.2, step: 0.5 for 1:1.2 ~ 1:20; Attack time: 0.3ms ~ 200ms, Release time: 50ms ~ 5000ms

Functions of Output Channels

Output Mute	Mute/Unmute selection for each output channel
Output Selection	Each input channel can be selected to routed to any output channel
Output Gain	Range: -80dB ~ +12dB, step: 0.2dB
Output Delay	Each input channel has a separate delay control, adjustable range of 0-1000ms, step: 21us increment till 10ms, step: 84us from 10ms-20ms, step: 0.5ms from 20-1000ms
Output Polarity	In-phase(+) or Reversed phase(-)
Crossover	Each output channel can be independently set as LPF or HPF. Filter type: Linkwitz-Riley, Bessel, Butterworth Crossover Frequency: 20Hz ~ 20kHz, Slope: 12dB/oct – 48dB/oct in increments of 6dB/oct
Compression	Threshold: -40dBu ~ +20dBu, step: 0.5dBu; Compression ratio: 1.0:1 ~ 20:1; step: 0.1 for 1.0:1 ~ 2.0:1, step: 0.5 for 2.0:1 ~ 20.1; Attack time: 0.3ms ~ 200ms, Release time: 50ms ~ 5000ms
Limiter	Threshold: -40dBu ~ +20dBu, step: 0.5dBu; Attack time: 0.3ms ~ 200ms, Release time: 50ms ~ 5000ms
Output EQ	Each output channel has 10 EQ's selectable to PEQ or Shelving Gain: -20db ~ +20db; Shelf Slope: 6db/12db; Frequency: 20Hz - 20kHz Bandwidth: 0.05oct ~ 3oct; step: 0.05oct; Gain: -20db~+20db, Step 0.1db 96kHz sampling frequency, 32-bit floating-point DSP
Processor Display	2 x 24 LCD, 8-LED for input/output level. Mute and editing functions can be displayed
Power	\leq 25W
Power Supply	AC110V/220V 50/60Hz
Product Dimension (H X W X D)	44 mm X 482 mm X 228 mm (1.7" X 19" X 9")
Net Weight	4.1 kg (9 lb)
Packed Weight	5 kg (11 lb)

DSS88



FEATURES

- 8 analog inputs and 8 analog outputs, microphone or line
- 48V switch per input channel
- 24 bit A/D and D/A convertor
- 48kHz sampling rate
- 8th order filters for crossover
- GPIO Extensible Function
- Feedback suppressor in per input channel
- Automatic Mixer & Matrix Mixer
- 31 PEQ per input and 10 PEQ per output
- USB, RS232/RS485 connector for centre control

The Pulz DSS88 8-In, 8-Out Digital Speaker Processor is designed to deliver high quality DSP processing and superb audio quality and adequate control options for professional sound reinforcement for fixed and touring installations, nightclubs, large venue sound systems and more.

The DSS88 features 24-Bit A/D converters 96kHz sampling rate and an array of DSP functions that include cross-over, delay features, compression, limiting, feedback control features and much more.

An intuitive 2 X 24 back-lit LCD display helps navigate options through its extensive feature set and is also easy to see in dimly lit venues. The DSS88 will store up to 30 total presets. A preset file captures all current settings and stores complete control data for all channels and all audio functions.

SPECIFICATIONS:

Input Impedance	Balanced: 11.5K Ω
Output Impedance	Balanced: 150 Ω
PC Port	1 USB (front panel), RS485, RS232, RJ45, GPIO (phoenix connector on back panel)
CMRR	>55dBu at 1kHz
Input Range	$\leq +14$ dBu
Input Signal	Line/Mic/Internal test signal generator
Phantom Power	48V per channel
Frequency Response	20Hz-20kHz(+/-0.5dB) Line, 20Hz-20kHz(+/-1.5dB) Mic
S/N Ratio	>105dB Line, >95dB Mic
THD	<0.01% Output=0dBu/1kHz.
Crosstalk of Channels	>83dB(1kHz).

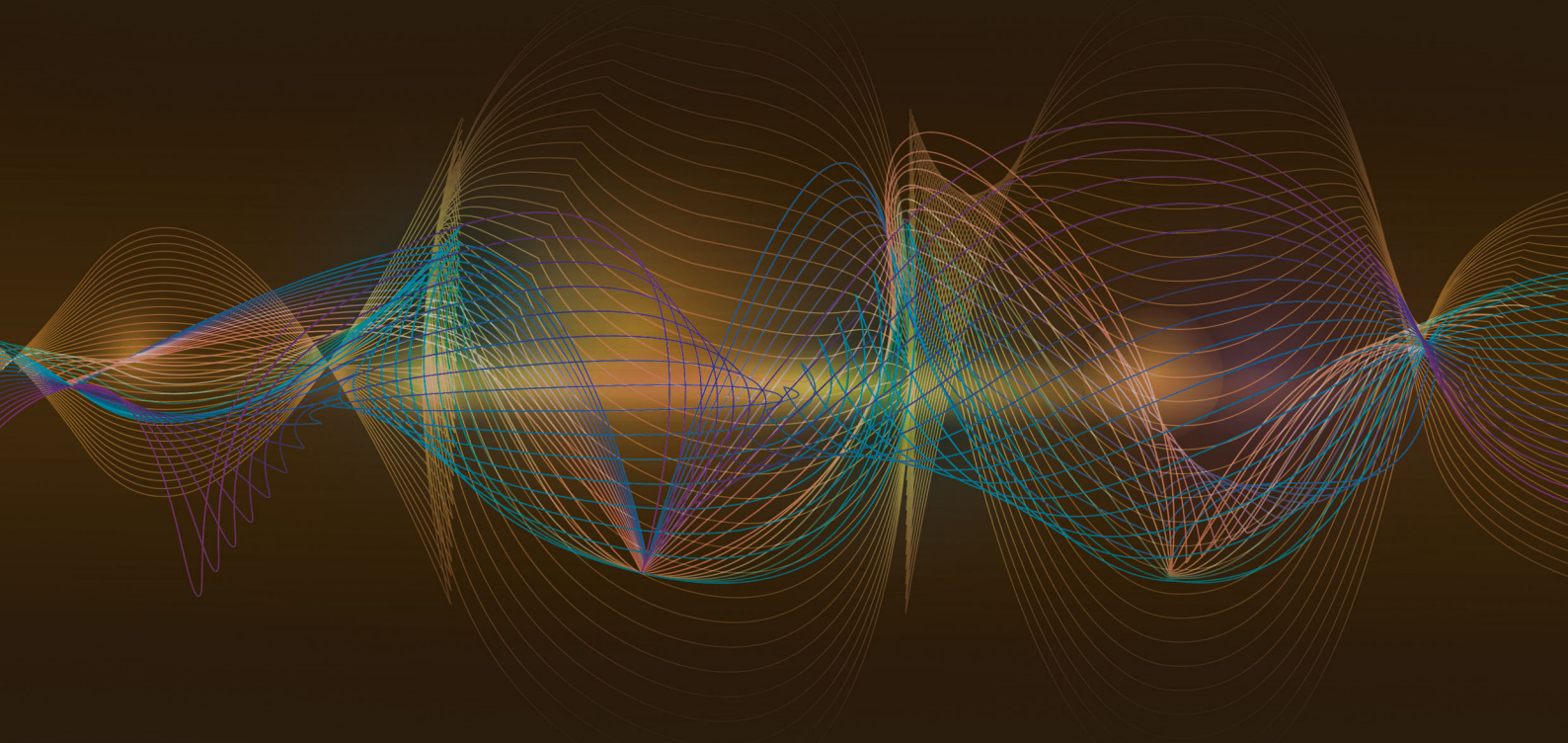
Functions of Input Channels

Input Mute	Mute/Unmute selection for each input channel
Input Delay	Each input channel has a separate delay control, adjustable range of 0-20ms in increments of 0.10ms
Input Polarity	In-phase(+) or Reversed phase(-).
Input EQ	Each input channel has 31 EQ's selectable to PEQ or Shelving or All pass filter
Input Gain	-60dB ~ +15dB, step@0.1db.
Noise Gate	Threshold: -120dBu ~ -60dBu, in 0.1dB steps; Attack: 1 ~ 2895ms, Release: 1 ~ 2895ms in 0.1ms step

Functions of output channels

Output Mute	Mute/Unmute selection for each output channel
Output Selection	Each input channel can be routed to any output channel.
Output Gain	-60dB ~ +15dB, step@0.1db
Output Delay	Each output channel has a separate delay control, adjustable range of 0-60ms in increments of 0.10ms
Output Polarity	In-phase(+) or Reversed phase(-)
Crossover	Each output channel can be independently set as LPF or HPF. Filter type: Linkwitz-Riley, Bessel, Butterworth.
Crossover Frequency	20Hz ~ 20kHz, Slope: 12dB/oct – 48dB/oct in increments of 6dB/oct
Compression	Compressor present for each output channel. Adjustable parameters: Threshold value: -90dB ~ +21dB; step:0.1dB.
Attack time	1ms ~ 2895ms, step: 0.1ms. Release time: 1ms ~ 2895ms, step: 0.1ms, Ratio: 1~100, step: 0.1
Limiter	Limiter present for each output channel. Adjustable parameters: Threshold value: -90dB ~ +21dB; step:0.1dB.
Release time	1ms ~ 2895ms
Output EQ	Each output channel has 10 EQ's selectable to PEQ or Shelving or All pass filter
Processor	48kHz sampling frequency, 32-bit floating-point DSP.
Display	2 x 24 LCD
Power	≤ 25 W
Power Supply	AC 110V-220V 50/60Hz
Dimensions (H X W X D)	44 mm X 482 mm X 228 mm (1.7" X 19" X 9")
Net weight	2.8 kg (6 lb)
Gross weight	3.8 kg (8 lb)

sound matters



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Pulz reserves the right to make changes in specifications without prior notice.