

NEW PRODUCT NEWS



PROEL prosegue nel supporto dei suoi clienti professionali presentando il successore del DSO26, il nuovo **DSO480**. Con 4 ingressi e 8 uscite, il nuovo sistema di gestione audio offre funzionalità avanzate di elaborazione del segnale, elevando le prestazioni e dotandosi di funzioni extra prima non disponibili.

- 4 ingressi e 8 uscite – processamento a 96 kHz banda passante superiore a 30 kHz.
- Matrice flessibile – oltre le configurazioni classiche come 4 x 2 vie, ogni combinazione di ingressi e uscite è possibile. I pulsanti Edit mostrano istantaneamente appena premuti il percorso del segnale.
- 9 equalizzatori full parametrici disponibili su ogni uscita, commutabili anche in shelving.
- 8 Equalizzatori full parametrici disponibili su ogni ingresso.
- Filtri crossover standard fino a 48 dB per ottava.
- Nuove tipologie di filtri crossover “NTM” o “Hardman” che permettono di avere pendenze superiori a 72 dB per ottava.
- “Extended EQ Pack” – i nuovi filtri parametrici ora possono essere impostati anche come notch e bandpass, equalizzare solo la fase (all pass) oltre a realizzare filtri ellittici e risonanti.
- Nuovo “D-Max” limiter con funzione look-ahead per una protezione assoluta dei sistemi di altoparlanti.
- Delay di 650 mS per ogni ingresso e uscita – extra fine delay sulle uscite a passi di 30 nS (0.1 mm).
- 255 Memorie compressive.
- Nuovi convertitori ad alte prestazioni con dinamica superiore a 116 dB e bassissima distorsione .
- Ingressi digitali AES / EBU che accettano e convertono a 96 kHz segnali da 32 kHz a 192 kHz.
- Tutte le funzioni sono disponibili da pannello.
- Display 2 x 24 caratteri con nuovi pulsanti a profilo ergonomico.

*PROEL continues in support of its professional customers by presenting the successor of DSO26, the new **DSO480**. With 4 inputs and 8 outputs, the new audio management system, offers advanced signal processing, raising the performance and equipping of extra features never before available.*

- 4 inputs and 8 outputs – native processing now runs at 96 kHz resulting in wider bandwidth (over 30 kHz).
- Flexible routing matrix – in addition to standard fixed configurations such as 4 x 2 way, any output may be fed from any input or the sum of inputs. Edit buttons show routing instantly when pressed.
- 9 full bandwidth parametric bands available on every output, all switchable in high and low shelving responses.
- 8 bands of fully parametric EQ on each input channel.
- crossover filters on each output now offer 48 dB/Octave responses.
- New higher order crossover responses in the style of “NTM” or “Hardman” filters, with crossover responses above 72 dB/Octave.
- “Extended EQ Pack” – in addition to the standard EQ responses (PEQ/Shelving) EQ band may be changed to offer a variety of responses, from notch filters and bandpass filter, to phase (all pass) filters and elliptical and resonant filters.
- New additional “D-Max” limiter with look-ahead processing allows absolute loudspeaker systems protection.
- Delay memory allows for up to 650 mS from any input to any output - extra fine delay resolution on outputs in 30 nS (0.1 mm).
- Extended memory capacity – user memories now extended to a maximum of 255.
- Improved converters – dynamic range up to 116 dB, lower noise and improved distortion figures.
- AES input interface – accepts AES rates from 32 kHz up to 192 kHz via a sample rate converter.
- ALL functions are available though the front panel interface.
- Bigger 2 x 24 character display with new low profile ergonomic buttons.

TECHNICAL SPECIFICATIONS

Inputs: 2/4 electronically balanced ◆
Impedance: > 10k ohms.
CMRR : >65 dB 50 Hz – 10 kHz.

Outputs: 4/6/8 electronically balanced ◆
Source Imp: < 60ohms
Min. Load: 600 ohm
Max. Level: +20 dBm into 600 ohm

Frequency Resp.: ±½ dB 20 Hz-20 kHz
-3 dB @ 32 kHz

Dyn. Range: >116 dB 20 Hz-20 kHz unwt'd

Distortion: < .02% @ 1 kHz, +18 dBm

Maximum Delay: 650 mS

Min Step Size: 0.3 µS

Input Gain: +6 dB to -40 dB in 0.1 dB steps

Output Gain: +15 dB to -40 dB in 0.1 dB steps and mute

Parametric Equalisation

8 per Input / 9 Sections per Output
Filter Gain: +15 dB to -30 dB in 0.1 dB steps.
Freq. Range: 19.7 Hz – 32 kHz, 1/36 octave steps.
Filter Q / BW: 0.4 to 128 / 2.5 to 0.008
(Sections switched to shelving response)
Low frequency: 19.2 Hz – 1 kHz
High frequency: 1 kHz – 32 kHz
Shelf gains: ±15 dB in 0.1 dB steps.

High and Low pass Filters

Filters: 1 of each per output.
Freq. Range HPF: 10 Hz – 16 kHz
1/36 octave steps.
Freq. Range LPF: 35 Hz – 22 kHz
1/36 octave steps.

Responses:
1st Order 6 dB/Oct.
Bessel/Butterworth/Linkwitz-Riley 12-24-48 dB/Oct.
Bessel/Butterworth 18 dB/Oct.

Limiters

Program Limiter:
Threshold: +22 dBu to -10 dBu
Attack time: 0.3 to 90 milliseconds
Release time: 2/4/8/16/32 x Attack time

"D-Max" Limiter:

Attack Time: -60 µs
Release Time: Slow/Medium/Fast

Display: 2 x 24 Character LCD

Input meter: 4 x 4 point, -24 dB to digital clip.

Output meter: 8 x 4 point, -24 dB to +4 dB into limit.

Connectors

Inputs: 3 pin female XLR
Outputs: 3 pin male XLR.
External: 9 pin DEE connector (RS232)
Power: 3 pin IEC

Power: 60 to 250V ±15% @ 50/60 Hz.

Consumption: < 30 watts.

Weight: 3.3 kg. Net (4.7 kg. Shipping)

Size: 1.75"(1U) x 19" x 11.8"
(44 x 482 x 300 mm) excluding connectors

◆ Transformer options available