product specifications

XTA DP226

PRODUCT FEATURES

Building on the phenomenal success of the DP200, the DP226 continues the reputation for sound quality in a product aimed squarely at the most demanding sound reinforcement applications. The DP226 features 2 inputs and 6 outputs. Each input has an 8 band parametric equalizer, base delay and gain control. All outputs feature crossover filters, 5 band parametric equalizers, high and low shelving filters, a limiter and delay. Full metering is provided for inputs and outputs, with mute and access buttons on the faceplate allowing quick set up and gain adjustment. The DP226 can also be controlled via PC with XTA's AudioCore Windows™ control software.

technical specifications

DESCRIPTION

Superb audio quality - carefully optimized double precision signal processing coupled with a 40-bit internal data path ensures a dynamic range in excess of 110dB. The high sampling rate means minimal filtering providing exceptional sonic purity.

A flexible 2-input/6-output multi-mode format caters for any crossover configuration, regardless of scale. A total of 46 parametric equalization bands are available, each providing +15 to -30dB of gain at centre frequencies between 20Hz and 20kHz, with a wide range of 'Q's available between 0.4 and 128.

All parameters feature fine resolution with 1/36 octave frequency steps, 0.1dB gain increments, and 100 'Q' settings. Any parametric section can also be set to operate as a high or low shelving filter.

Each output features a high performance limiter, provided with complete control over attack, release and threshold parameters. To aid set-up, the output meters show headroom to the limiter threshold, and use time constants that track those of the limiter to display precise power usage.

Each output features variable high and low pass filters, with a choice of 12, 18 or 24dB/Octave roll-off, and Butterworth, Bessel or Linkwitz-Riley responses.

Independent control of each high and low pass filter allows asymmetric crossover bands to be created.

Delay of up to 650mS may be independently set for each output, with an exceptionally fine minimum increment of 2.6μS.

Three velocity-sensitive encoders provide a familiar and intuitive control format with all filter information displayed simultaneously on a backlit LCD screen.

The comprehensive standard specification also includes 40 memories, PC Card storage and remote control via MIDI, RS232 or RS485 ports, with multi-part security lock-out.

AES/EBU Digital input and output interfaces are available as an option.

Input and output balancing transformers are also available as an option.

PRODUCT DATA

Inputs Two electronically balanced. [++]
Impedance >10k ohms.
CMRR >65dB 50Hz - 10kHz.
Outputs Six electronically balanced. [++]
Source Imp < 60ohms.
Min. Load 600ohm.
Max. Level +20dBm into 600 ohm load.

Frequency Resp. ±0.5dB 20Hz - 20kHz.
Dynamic Range >110dB 20Hz -20kHz. unwtd.
Distortion < 0.02% @ 1kHz, +18dBm.

Maximum Delay 650 mS. (increment 2.6 l uS Steps)
Output gain Adjustable +15dB to -40dB in 0.1 dB steps and mute.

Parametric Equalization:
Filters 8 Per input 5 per output.
Filter gain +15dB to -30dB in 0.1dB steps.
Centre frequency 20Hz - 20kHz, 1/36 octave steps. (368 positions) Filter Q/BW 0.4 to 128/2.5 to 0.008

High & Lowpass Filters:
Filters 1 of each per output.
Frequency (HPF) 10Hz - 16kHz, 1/36 octave steps.
Frequency (LPF) 60Hz - 22kHz, 1/36 octave steps.
Response Bessel / Butterworth 12dB, 18dB and 24dB per octave and Linkwitz-Riley 24dB per octave.

Limiters:
Threshold +22dBu to -10dBu
Attack time 0.3 to 90 milliseconds.
Release time 2, 4, 8, 16 or 32 times the attack time.

Display:
2 x 20 character backlit LCD.

Connectors:
Inputs 3 pin female XLR.
Outputs 3 pin male XLR.
RS485 In/Out XLRS
RS232 9 Pin (Female) DEE Connector
MIDI In / 5 pin DIN.
Power 3 pin IEC.

Power:
60VAC - 240VAC.
Consumption < 30 watts.
Weight 3.5kg. Net (4.8kg. Shipping)
Size 1.75"(1U) x 19" x 11.8" (44 x 482 x 300mm) excluding connectors

Options [++] = Transformers available.
AES/EBU Digital I/O; GPI Interface.

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