DX1.5
Loudspeaker management system

features
- 2 input 6 output loudspeaker management
- Flexible routing matrix
- 9 full bandwidth parametric bands on every output
- Bessel, Butterworth and Linkwitz-Riley crossover filters
- Gain delay and limiter functions
- 2 x 24 character LCD display

applications
- Live sound loudspeaker management
- Theatres
- Clubs
- Bars

The DX1.5 is a 2 input 6 output digital loudspeaker management system for use in both live applications and fixed installations. Based on a processing platform running at 96kHz the DX1.5 offers unrivalled performance and flexibility.

The DX1.5 has standard routing matrix configurations, such as 2 x 3-way, as well as flexible routing allowing any output to be fed from any input or sum of inputs. Each output consists of a high and low filter, 9 bands of parametric equalisation, limiter, delay (adjustable in 0.3µs steps), gain and polarity.

overall dimensions

technical specifications

| INPUTS | 2 electronically balanced |
| IMPEDANCE | >10k ohms analogue |
| CMMR | >65dB 50Hz - 10kHz |
| OUTPUTS | 6 electronically balanced |
| SOURCE IMP | <60 ohms analogue |
| MIN LEVEL | 600 ohms analogue |
| MAX LEVEL | +20dBm into 600 ohm |
| FREQUENCY RESPONSE | 20Hz-20kHz ± 0.5dB, -3dB @ 32kHz |
| DYNAMIC RANGE | >116dB 20Hz-20kHz unweighted |
| DISTORTION | <0.02% @ 1kHz, +18dBm |
| MAXIMUM DELAY | 650ms (Increment 0.3µs) |
| INPUT GAIN | +6dB to -40dB in 0.1dB steps |
| OUTPUT GAIN | +15dB to -40dB in 0.1dB steps plus mute |

PARAMETRIC EQUALISATION

- FILTERS: 8 per input / 9 per output
- FILTER GAIN: +15dB to -30dB in 0.1dB steps
- FREQUENCY RANGE: 19.7Hz – 32kHz, 1/36 octave steps
- FILTER Q / BW: 0.4 to 128 / 2.5 to 0.008

Sections switched to shelving response:
- LOW FREQUENCY: 19.2Hz – 1kHz
- HIGH FREQUENCY: 1kHz – 32kHz
- SHELF GAINS: ±15dB in 0.1dB steps

HIGH AND LOWPASS FILTERS

- FILTERS: 1 of each per output
- FREQUENCY RANGE (HPF): 10Hz – 16kHz, 1/36 octave steps
- FREQUENCY RANGE (LPF): 35Hz – 22kHz, 1/36 octave steps

RESPONSES

- 1ST ORDER: 6dB/Oct
- BESSEL/BUTTERWORTH: 12, 24 and 48dB/Oct
- LINKWITZ-RILEY: 18dB/Oct

LIMITERS

- THRESHOLD: +22dBu to -10dBu
- ATTACK TIME: 0.3ms to 90ms
- RELEASE TIME: 2 x 4/8/16/32 x Attack time
- DISPLAY: 2 x 4 character blue LCD
- INPUT METER: 2 x 4 point, -24dB to +2dB to digital clip
- OUTPUT METER: 6 x 4 point, -24dB to +4dB into limit

CONNECTORS

- INPUTS: 3 pin female XLR
- OUTPUTS: 3 pin male XLR
- EXTERNAL: 9 pin D-type connector (RS232)
- POWER: 3 pin IEC
- POWER: 60V to 250V ±15% @ 50/60Hz
- CONSUMPTION: <30 watts analogue
- LATENCY: 1.5ms (analogue in – analogue out @ 96kHz)
- DIMENSIONS: (W) 482mm x (H) 44mm x (D) 300mm
- (W) 19ins x (H) 1.75ins x (D) 11.8ins
- WEIGHT: 3.3kg (7.3lbs)