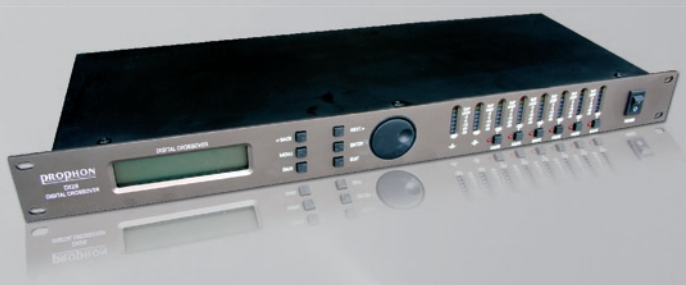
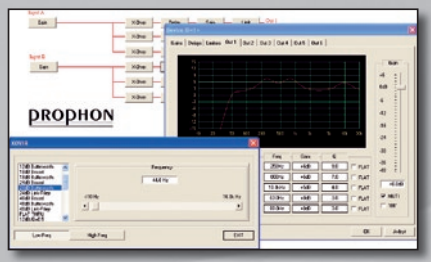
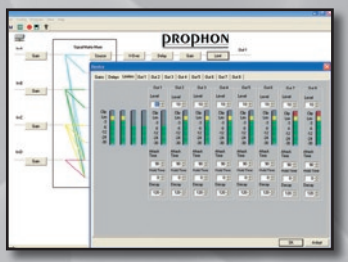
DIGITAL CROSSOVER AND DSP

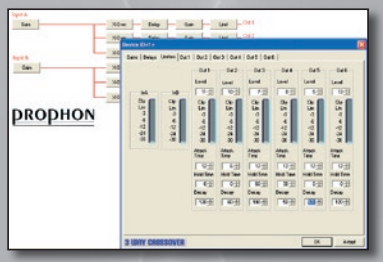


DX26 - Digital active crossover 2 in / 6 out
Designed for installation and live applications, easy to program with a computer or directly on the fron panel. All settings are shown in real time in the deticated software. With the DX26 you can, in no time, program a complete nightclub, a bar or a PA for live applications, wether using

Features:
- 3 x 24bit / 48kHz DSP, with 0,01 THD distortion processing.
- Seperate delay up to 7mS on each output
- 5 fully editable pre-programmed configurations:
  1x6-way, 2x3-way, 3x2-way, 2x2-way+2mono, 5-way+1mono
- Crossover on each output with 6, 12, 18, 24, 48dB slopes
  Bessel, Butterworth, Linkwitz-Riley types of filters.
- 5 parametrik EQ on each outputwith adjustable:
  Gain, Q-value and frequency
- Lockable in 5 different depth.
- 180° phase invert and mute on all output.
- Controled and managed via RS232
-* Stereo link for faster programming



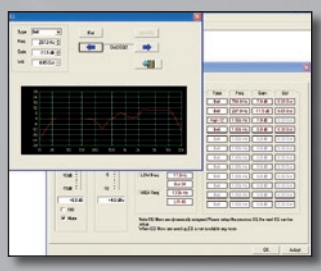


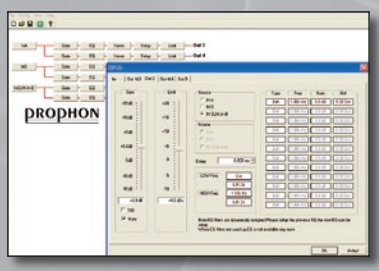




DSP26- Loudspeaker management system 2 in / 6 out
Advanced DSP for installation and live applications, with a variaty of features. High quality DSP and AD/DA converters.
The PROPHON DSP26 can be programmed either on the front panel or with a computer, using the deticated software.
Extremely good sound quality and very high signal/ration makes the DSP26 an ideal system processor for the serious user.

Features:
- 3 x 24bit / 48kHz DSP, with 0,005% THD.
- Separate delay on all channels with up to 630mS, in steps of 21uS
- Total freedom in programming and setup
- Seperate crossover on each output with 6, 12, 18, 24 & 48dB slope.
  Bessel, Butterworth and Linkwitz-Riley types of filter.
- Floatin EQ with a total of 60 EQ-points to distribute freely over all channels, each with adjustable gain, Q and frequency
- EQ-types: Parametric, Bell and Hi/Lo- shelving 6 &12dB
- Frequency responce 15Hz - 20kHz
- Dynamic range >112dB unweighted, 22Hz - 20kHz
- 90V - 250V 50/60Hz universal input power
- 180° phase invert and mute on all output.
- Controled and programmed from a computervia RS232 protocoll or programmed via the frontpanel directly.
- Stereo link for faster setup.
- Output limiter with adjustable athreshold and automatic attack and release based on frequency.
- 60 storage locations for user programs.





DX48 - Digital crossover and signal processor 4 input / 8 output

Big brother to the DX26 with added functions such as signal matrix between input and output, where all inputs can be routed to all outputs independent of each other, all outputs can have signal flow in the following configurations: input A, B, C, D, A+B, C+D, ALL, OFF. The DX48 is well suited for installing in large dancehalls and nightclubs where lots of bars and music-zones needs to have music routed from the main PA. Also for use as crossover for monitor systems where 4 independent 2-way active systems can be used, and of course as loudspeaker management processor for FOH, or monitor and FOH combined in smaller applications.
Very easy to program either directly on the front panel using the three quick-set knobs that have both functions when pressing down and turning left/right, or from acomputer. When programmed and controled from a computer everything is edited in real-time and the limiter indicates ”live”, showing gain on all inputs and outputs with graphic ”LED-bars” (see picture)





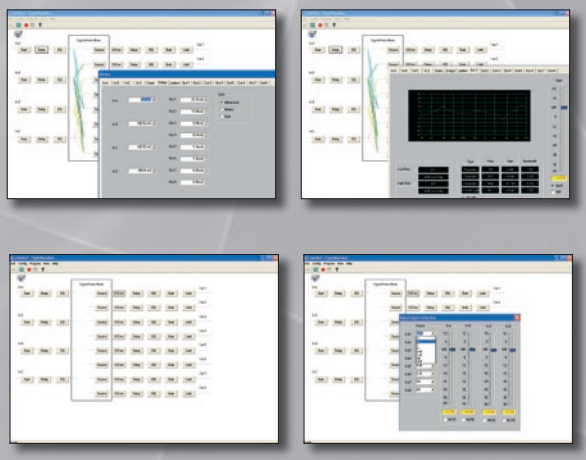
Features:

- 4 x 24bit / 48kHz DSP with 0,01 THD distortion processing
- Separat delay up to 7 mS on each output in steps of 0,1 mS
- Either use one of the 10 pre-programmed totally editable settings or design your own from scratch
- Crossover on each output with 6dB, 12dB, 18dB, 24dB 48dB /oct bessel, butterworth and linkwitz-riley on 393 selectable frequencies.
- 5 parametric EQ-points on 359 different frequencies on each output with adjustable Gain, Q, and frequency,
- High-shelf and lo-shelf with over 20 settings.
- Real time monitoring on all inputs and outputs and limiter with adjustable Attack, hold, decay and level on all outputs
  -when connected to a computer the limiter indicates the input and output graphically on each channel in realtime on the monitor.
- Lockable in 5 depth from totally locked where not even mute can be pushed, to very open where users can do everything but save.
- 180° phase invert and mute on all output.
- Controlled from computer by RS232 or programmed direct on the front panel.
- Stereo link for faster programming.
- Very good signal / noice ratio.

DSP48 - Loudspeaker managemant system 4 in / 8 out

Big brother to the DSP26 with added functions such as signal matrix between input and output, where almost all inputs can be routed to all outputs independent of each other, all outputs can have signal flow in the following configurations: input A, B, C, D, A+B, C+D, ALL, OFF. The DSP48 is well suited for installing in large dancehalls and nightclubs where lots of bars and music-zones needs to have music routed from the main PA. Also for use as crossover for monitor systems where 4 independent 2-way systems can be used, and of course as loudspeaker management processor for FOH, or monitor and FOH combined. Very easy to program either directly on the front panel using the quick-set knob that both have functions when pressing down and turning left/right, or from a computer. When programmed and controled from a computer everything is edited in real-time and the limiter indicates ”live”, showing gain on all inputs and outputs with graphic ”LED-bars” DSP48 has Gain, EQ and delay on all inputs and outputs.





Features:

- 4 x 24bit / 48kHz DSP with 0,005 THD distortion processing
- Seperate delay up to 682 mS on each input and 21 mS on each output in steps of 0,02 mS
- Crossover on each output with 6dB, 12dB, 18dB, 24dB 48dB /oct, bessel, butterworth and linkwitz-riley.
- 4 parametric EQ-points on on each output with adjustable Gain, Q, and frequency,
- 6 parametric EQ-points on on each input with adjustable Gain, Q, and frequency,
- High-shelf and lo-shelf with over 20 settings.on all output and input.
- Real time monitoring on all inputs and outputs and limiter with adjustable Attack, hold, decay and level on all outputs
  -when connected to a computer the limiter indicates the input and output graphically on each channel in realtime on the monitor.
- Lockable in 5 depth from totally locked where not even mute can be pushed, to very open where users can do everything but save.
- 180° phase invert on all outputs.
- Mute on all inputs and all outputs
- Controlled from computer by USB or programmed direct on the front panel.
- Stereo link for faster programming.
- Very good signal / noice ratio.
- several DSP48 can be connected and supervised in a network.