

Loudspeaker System Controllers

By GeorgePetersen

Thanks to affordable, better sounding DSP, what was once a simple speaker crossover unit has evolved into versatile system controllers offering delay, equalization, dynamics, and more — all from a compact rack enclosure. Most of these systems adapt freely to provide processing of various third party speakers systems; however, we did not cover products that are highly integrated to handle only speakers from a single manufacturer, such as VUE Audiotechnik's V4/V6 Systems Engines or L-Acoustics' LA4/LA8 Amplified Controllers. That said, if you're searching for a processors for your rig, your first call might be to the speaker manufacturer to see what they recommend. However, given the options and flexibility of these offerings, a little customization might be just the ticket for your system.

Ashly Protea 4.8SP



**Inputs:** 4 analog XLR  
**Outputs:** 8 analog XLR  
**EQ:** Shelving and parametric EQ on inputs and outputs  
**Delay:** 682 ms on inputs and outputs  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** 30 presets; USB inputs for setup via Protea software  
**Street Price:** \$1,150

ashly.com

Behringer UltraDrive PRO DCX2496



**Inputs:** 3 analog XLR (one switchable to AES pair)  
**Outputs:** 6 analog XLR  
**EQ:** Dynamic EQ on inputs and outputs  
**Delay:** 582 on inputs and outputs  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** Free Windows-based editing software available.  
**Street Price:** \$299

behringer.com

Meyer Sound Labs Galileo 408



**Inputs:** 4 XLR inputs (analog or AES)  
**Outputs:** 8 analog outputs  
**EQ:** TruShaping EQ and Composite EQ filtering  
**Delay:** 2,000 ms maximum (inputs or outputs)  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** Includes Compass parameter control software for PC or Mac  
**Street Price:** n/a

meyersound.com

Peavey DigiTool Live



**Inputs:** 8 analog XLR, plus assignable AES input  
**Outputs:** 8 analog XLR  
**EQ:** Parametric on inputs and outputs  
**Delay:** 2,500 ms maximum (inputs or outputs)  
**Output Limiting:** Yes  
**Size:** 2-rackspace  
**Extras:** Front panel mute switches for all I/Os; Ethernet connectivity.  
**Street Price:** \$1,359

peavey.com

QSC SC28



**Inputs:** 2 analog XLR  
**Outputs:** 8 analog XLR  
**EQ:** 6-band parametric on inputs  
**Delay:** 20ms array delay; 50ms sub delay  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** Includes stereo or mono subwoofer management  
**Street Price:** \$1,480

qsc.com

D.A.S. Audio DSP4080



**Inputs:** 4 XLR (analog or AES digital)  
**Outputs:** 8 XLR (analog or AES)  
**EQ:** Parametric EQ on inputs and outputs  
**Delay:** 650 ms  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** 256 preset storage; RS-232 and RS-485 ports for remote control via AudioCore software  
**Street Price:** \$4,499

dasaudio.com

dbx DriveRack 4800



**Inputs:** 4 XLR (analog or AES digital)  
**Outputs:** 8 XLR (analog or AES digital)  
**EQ:** 31-band graphic and 9-band parametric on inputs  
**Delay:** 632 ms on inputs; 1,365 ms shared on outputs  
**Output Limiting:** Yes  
**Size:** 2-rackspace  
**Extras:** Transformer I/O optional; DSP includes noise gate, compression, AGC, de-esser, sub-harmonic synth, feedback suppression, peak limiter.  
**Street Price:** \$3,999

dbxpro.com

EAW UX8800



**Inputs:** 4 XLR (analog or AES)  
**Outputs:** 8 analog XLR outs  
**EQ:** 10 filters on each input and output  
**Delay:** 1,200 ms  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** 50 presets; Gunness Focusing  
**Street Price:** \$4,268

eaw.com

RCF DX 4008



**Inputs:** 4 analog XLR  
**Outputs:** 8 analog XLR  
**EQ:** 6-band parametric input and output EQ  
**Delay:** 500 ms inputs or outputs  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** 30 presets; remote PC control app available  
**Street Price:** \$2,399

rcf.it

TC Electronic XO24



**Inputs:** 2 XLR analog; stereo S/PDIF input  
**Outputs:** 4 XLR analog  
**EQ:** 4-band parametric EQ on all inputs and outputs  
**Delay:** 200 ms on all outputs  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** Factory and user presets  
**Street Price:** \$799

tcelectronic.com

Xilica XD-4080



**Inputs:** 4 XLR (analog or AES digital)  
**Outputs:** 8 analog XLR; 8 AES on D25-sub  
**EQ:** 8-band parametric (inputs and outputs); 31-band GEQ on inputs  
**Delay:** 650 ms (inputs and outputs)  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** 30 presets; compressors on all inputs  
**Street Price:** \$1,775

xilica.com

Electro-Voice Dx46



**Inputs:** 2 XLR analog (1 AES digital)  
**Outputs:** 6 XLR analog  
**EQ:** 5-band multi-mode and dual 31-band GEQ (inputs); 6-band output EQ  
**Delay:** Input and output delays  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** 60 factory presets, 30 user presets.  
**Street Price:** \$1,813

electrovoice.com

Klark Teknik Helix DN9848e



**Inputs:** 4 XLR (analog or AES switchable)  
**Outputs:** 8 XLR analog  
**EQ:** Parametric EQ on inputs and outputs  
**Delay:** 1,000 ms input; 300 ms output  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** Four compressors, dynamic equalization, 96k Hz support.  
**Street Price:** \$3,398

klarktechnik.com

Lake LM 44



**Inputs:** 4 analog XLR; 8 AES digital; Dante  
**Outputs:** 4 analog XLR; 8 AES digital; Dante  
**EQ:** Lake Raised Cosine and MESA Equalization  
**Delay:** 2,000 ms maximum  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** Two units can link to function as a single 8x8 processor.  
**Street Price:** n/a

lake.labgruppen.com

XTA DP424



**Inputs:** 2 XLR analog  
**Outputs:** 4 XLR analog  
**EQ:** Parametric and 28-band GEQ on each input  
**Delay:** 650 ms total  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** 4-in/8-out DP448 also available  
**Street Price:** \$2,780

audiocore.co.uk

Yamaha SP 2060



**Inputs:** 2 XLR (analog and AES digital)  
**Outputs:** 6 XLR analog  
**EQ:** 8-band parametric on inputs; 6-band parametric on outputs.  
**Delay:** 1,300 ms input; 500 ms output  
**Output Limiting:** Yes  
**Size:** 1-rackspace  
**Extras:** Also programmable via DME Designer software.  
**Street Price:** \$1,499

yamahaca.com

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Handheld Condenser  
Microphones

