

KEY REASONS TO BUY THE

Performance Digital Signal Sound Processor with Equalization, Crossover and Signal Delay

Key Features of the DQDX

- ·Six input and output channels with level controls
- •Independent Front, Rear, and Subwoofer equalization
- •24dB / Octave Linkwitz-Riley selectable crossover
- High voltage Line Driver
- Signal Delay to put the speakers in acoustical alignment

Signal Delay

Because of speaker placement limitations and the seating positions in a car, it is almost always the case that the driver of the vehicle is in an incorrect acoustic alignment. This exists because the sound from the left side arrives at the driver of the vehicle much sooner than the sound from the right side. By delaying the appropriate speakers for just a few milliseconds, the AudioControl DQDX is able to allow the signals from each speaker to arrive at the same time thus putting the driver in perfect acoustical alignment.

Equalization for Maximum Control and Performance

Like all of AudioControl's high performance signal processors, the DQDX is designed specifically to offer maximum audio performance and control. All 6 output channels are equipped with seven highly accurate graphic equalization filters. This equalization allows for the taming of even the most demanding car acoustical challenges.

24 dB / octave Linkwitz-Riley crossover

The AudioControl DQDX uses a 24 dB / octave Linkwitz-Riley alignment crossover to separate the bass frequencies from the midrange and high frequencies. The crossover in the DQDX gives you a flat response without any peak or dip around the crossover frequency. In addition, the 24dB crossover makes the transition without the phase irregularities you get in most other configurations. Our crossover selector is exact so it completely eliminates the guess work during the installation.

High Voltage Line Driver

Our high voltage, low impedance outputs make a huge difference in how your system's amplifiers will perform. First, our high voltage pre-out means your amplifier can reach

full power without having to turn up the amplifier's input gain controls. This means you get more volume with less noise and less distortion. At AudioControl we are all about 'Making Good Sound Great' and with the built in Line Driver in the DQDX you will be sending the best possible quality signal into your amplifiers.



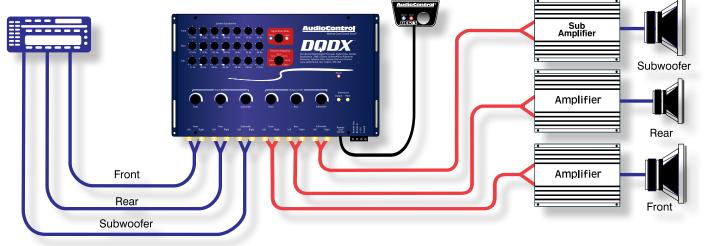
Making Good Sound Great®

System Diagrams

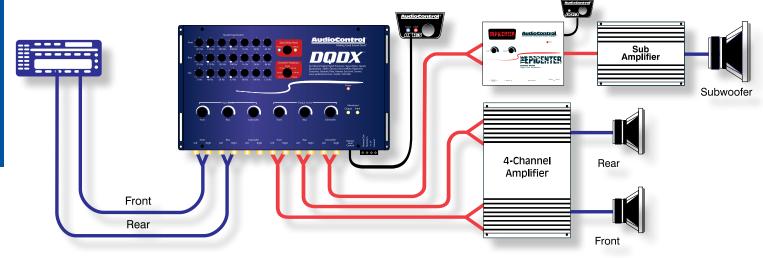
System #1 - Basic DQDX installation using 4 channel input and 6 channel output



System #2 - Typical DQDX installation



System #3 - Using a DQDX and The Epicenter from AudioControl to achieve maximum sound quality and bass



Key Features of the *DQDX*™

Performance Signal Processor



Crossover Controls - Selectable

crossover allows you to choose your exact crossover frequency between 50Hz and 500Hz.

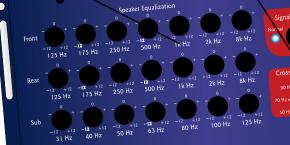
ACR3 System Control Knob -

Dash mountable control knob so you can adjust the delay for the speakers in Program mode or the Sub Level in Music mode.

Equalization Controls -

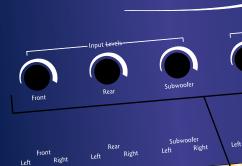
Separate Front, Rear, and Subwoofer equalizers for complete sound control. **Signal Delay Mode -** Allows you to put the speakers in acoustical alignment. /





rossover frequency
100 Hz
20 Hz
300 Hz
300 Hz
40 J Octave Linkwitz-Riley Alignment
Crossover, Subsonic Filter, Remote Sub Level Control,
www.audiocontrol.com, Seattle, WA USA

AudioCont



Subwoofer Front Rear Subwoofer Front Right Left Right Remote Out
Remote In Remote LIX
Cround
Cround

6 Channel Balanced Differential Preamp Inputs 6 Channel Preamp Outputs -

RCA output to amplifiers up to an 8 Volt Line Driver.

Level Matching Controls -

Independent input and output level controls allow you to maximize and balance the signal level that comes from your source to your amplifiers.

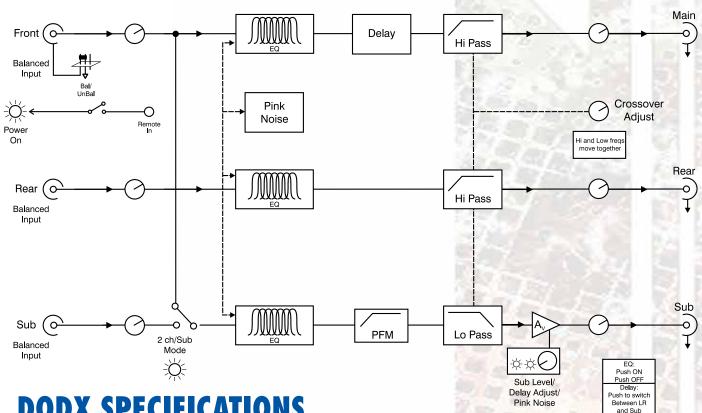
Why do you need Signal Delay (or an Equalizer for that matter)

Putting the driver in perfect acoustical alignment definitely has its challenges in a vehicle. In home audio it is generally easy to just move a speaker forward or backward or to the left or to the right to help make sure you hear both speakers at the same time. In a vehicle, we are typically stuck with the speaker locations that the vehicle manufacturers has supplied us with. This usually created a whole slew of issues when you add amplifier



power, new speakers, and subwoofers. Which is why signal delay and equalization are so critical. Equalization helps match all your new components together so they sound great and signal delay helps all that great sound arrive at you, the driver at the same time.

DQDX BLOCK DIAGRAM



All specifications are measured at 14.4 VDC (standard automotive voltage). As technology advances, AudioControl reserves the right to continuously change our specifications, like our Pacific Northwest weather, although we are working on changing that as well.

Maximum output level. Output gain. Frequency response. Total harmonic distortion Input Impedance	
Equalization Frequencies	
Front/Rear	250Hz, 500Hz, 1kHz, 2kHz, 8kHz
Sub Output	50Hz, 63Hz, 80Hz, 100Hz, 125Hz
Signal Delay	
Left/Right Max Delay	10ms
Front/Sub Max Delay	35ms
Crossover	50-500 selectable on/off
Output Impedance	150 Ohms
Power supply	High headroom PWM switching
Power draw	
Recommended fuse rating	
Remote trigger max output current	Amp
Size	
Weight	3 lbs
-	

Making Good Sound Great®

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