



ProLinear Studio Monitors Series Overview



ProLinear 720DSP



ProLinear 820DSP

Product Description

Alesis 720DSP and 820DSP studio monitors feature a precision digital crossover in a bi-amplified design for maximum efficiency and time-alignment. In addition, each ProLinear DSP monitor offers digital parametric equalization, adjustable via a built-in LCD display or via computer. This allows precise monitor tuning—even from a “sweet spot”—and the ability to store settings for different listening environments. 16 programs allow storage of user settings, as well as emulation of alternative monitor types.

Positioning

As digital monitors, the ProLinear 720DSP and 820DSP achieve performance unattainable by an all-analog design—at an unmatched value.

Applications

Stereo and surround sound studio monitoring situations that demand critical accuracy, power, and flexibility.

Key Features and Benefits

- 1) Brick-wall digital crossover
 - Efficient bi-amplification
 - Minimum phase distortion
 - Accurate and non-fatiguing
- 2) 4-band digital parametric EQ
 - Tune monitors to room with built-in controls and LCD or included computer software
 - Control up to 16 ProLinear DSPs from one position
- 3) 16 presets (8 factory, 8 user)
 - Store settings for different listening environments
 - Check integrity of mixes through speaker emulations
- 4) 120 watt bi-amplified design
 - 80 watts low frequency
 - 40 watts high frequency
- 5) Kevlar woofers and 1” silk dome tweeters
 - 7” woofer for ProLinear 720DSP
 - 8” woofer for ProLinear 820DSP



ProLinear Active Studio Monitors Product Specifications

ProLinear 720DSP

Speakers & Enclosures

Low-frequency driver: Custom 7" woven Kevlar woofer. High-frequency driver: 1" silk dome tweeter. Magnetically shielded. Enclosure: 0.75" MDF (medium-density fiberboard) material, built-in LCD and editing controls.

Amplifier

Low-frequency: 80W. High-frequency: 40W. Crossover: 100% digital with sharp slopes and minimal phase distortion.

Processing

24-bit/48kHz I/O, 28-bit DSP. 4-band fully parametric EQ with 8 preset, 8 user programs

Connections

Combination XLR-1/4" input, standard PC serial port (controlled by included Windows XP/2000/98/95 software).

Audio Specs

Frequency response: 50Hz–20kHz \pm 1.5dB.

Dimensions and Weight

Power: 130W max, 100–230V AC, 50/60Hz. Dimensions (H x W x D): 15" x 9" x 12" (381mm x 229mm x 305mm). Weight: 25.5lbs each.

ProLinear 820DSP

Speakers & Enclosures

Low-frequency driver: Custom 8" woven Kevlar woofer. High-frequency driver: 1" silk dome tweeter. Magnetically shielded. Enclosure: 0.75" MDF (medium-density fiberboard) material, built-in LCD and editing controls.

Amplifier

Low-frequency: 80W. High-frequency: 40W. Crossover: 100% digital with sharp slopes and minimal phase distortion.

Processing

24-bit/48kHz I/O, 28-bit DSP. 4-band fully parametric EQ with 8 preset, 8 user programs

Connections

Combination XLR-1/4" input, standard PC serial port (controlled by included Windows XP/2000/98/95 software).

Audio Specs

Frequency response: 50Hz–20kHz \pm 1.5dB.

Dimensions and Weight

Power: 130W max, 100–230V AC, 50/60Hz. Dimensions (H x W x D): 17.5" x 11" x 14" (381mm x 229mm x 305mm). Weight: 31.5lbs each.



ProLinear Active Studio Monitors Series Overview



ProLinear 720

Product Description

The Alesis ProLinear 720 and 820 studio reference monitors feature an all-analog bi-amplified design. They offer the same drivers and amplifiers as their DSP relatives without the added cost of digital components.

The ProLinear 820 features an 8" Kevlar woofer, as compared with the 7" woofer of the ProLinear 720. The 820 model has more sensitive drivers, providing improved bass frequency response, as well as higher sound pressure levels.

Positioning

The ProLinear 720 and 820 provide exceptional value in high-quality, bi-amplified studio reference monitors.

Applications

Studio reference monitoring situations that demand critical accuracy and power



ProLinear 820

Key Features and Benefits

- 6) High-quality, analog studio monitor
 - Affordable, straightforward design
 - Combination XLR-1/4" input
 - Magnetically shielded
- 7) 120 watt bi-amplified design
 - 80 watts low frequency
 - 40 watts high frequency
- 8) Kevlar woofers and 1" silk dome tweeters
 - 7" woofer for ProLinear 720
 - 8" woofer for ProLinear 820



ProLinear Active Studio Monitors

Product Specifications

ProLinear 720

Speakers & Enclosures

Low-frequency driver: Custom 7" woven Kevlar woofer. High-frequency driver: 1" silk dome tweeter. Magnetically shielded. Enclosure: 0.75" MDF (medium-density fiberboard) material.

Amplifier

Low-frequency: 80W. High-frequency: 40W.

Connections

Combination XLR-1/4" input.

Audio Specs

Frequency response: 50Hz–20kHz \pm 1.5dB.

Dimensions and Weight

Power: 130W max. Dimensions (H x W x D): 15" x 9" x 12" (381mm x 229mm x 305mm). Weight: 25lbs each.

ProLinear 820

Speakers & Enclosures

Low-frequency driver: Custom 8" woven Kevlar woofer. High-frequency driver: 1" silk dome tweeter. Magnetically shielded. Enclosure: 0.75" MDF (medium-density fiberboard) material.

Amplifier

Low-frequency: 80W. High-frequency: 40W.

Connections

Combination XLR-1/4" input.

Audio Specs

Frequency response: 45Hz–20kHz \pm 1.5dB.

Dimensions and Weight

Power: 130W max. Dimensions (H x W x D): 17.5" x 11" x 13.5" (381mm x 229mm x 305mm). Weight: 32.5lbs each.



ProLinear Active Studio Monitors

FAQ Sheet

Frequently Asked Questions

Q. Why is there an LCD on my studio monitor?

A. The LCD you see on your ProLinear DSPs is actually an interface for the internal DSP the monitor has built right into it. It allows you to switch through the 16 parametric EQ presets (8 of them are user-editable) the DSPs contain. When two or more DSPs are chained together, you can change the parameters on EVERY monitor simultaneously from the LCD on ANY of the connected speakers.

Q. What purpose does the built-in DSP serve?

A. Every room responds differently, and not every monitor will sound good in every room. With the ProLinear DSPs, you have the ability to actually EQ your speakers to the room. You are not at the mercy of the frequency response of your monitor, because you now have control over that. Also, the various EQ curves allow you to emulate a wide variety of different speakers; from AM radio to top-of-the-line studio monitors, which lets you hear what your mix will sound like on ANY system.

Q. And the serial port on the back?

A. The ProLinear DSPs come with software that allows computer control of up to 16 linked speakers. Now, you can tweak your speakers with your mouse, just as you would on any software EQ program. All the parameters are completely editable: change Q; switch between shelving and peak/dip; and adjust the gain. Found a setting you like? Just save it for next time in one of the 8 user locations.

Q. What is the advantage of having a digital crossover?

A. Unlike conventional bi-amplified monitors, the DSPs feature a proprietary, entirely digital crossover. Instead of relying on an analog circuit, the 28-bit processor allows you to crossover at the same exact point every time. This gives you superbly detailed sound and minimal phase distortion.

Q. What's so great about a woven Kevlar woofer?

A. The woven surface of the woofer provides you with true, uncolored reproduction of mids and lows. Because of the strength of Kevlar, the woofer will retain its' strength even when being driven at high levels. It is much less susceptible to blow-outs than traditional woofers made from polypropylene and other similar materials. Also, Kevlar is very thin, and so the response will be more accurate than woofers made of thicker, higher-mass substances.