



Dolby® PRM-4200 Professional Reference Monitor

Infinite Range, Infinite Possibilities

Introducing the Dolby® PRM-4200 Professional Reference Monitor, the most accurate monitor for creating any type of entertainment content. It renders true black levels, highly accurate dark detail, and the most precise color accuracy possible, across a wide dynamic range at all luminance levels and in all formats. With the Dolby Professional Reference Monitor, you see every captured element in amazing detail.

A trusted partner to content creators for decades, Dolby worked closely with colorists and cinematographers to perfect the Dolby Professional Reference Monitor. The result is the first flat-panel monitor that truly betters a CRT. It's destined to become the industry standard reference monitor. And once you see it, you'll agree.



Supports the Latest Digital Technologies

The Dolby Professional Reference Monitor is the first monitor that's capable of displaying the full dynamic range, high contrast ratio, and wide color gamut that today's leading-edge digital cameras and film stocks can deliver—and that tomorrow's digital imaging technologies will bring. These characteristics make it the perfect choice for working with the latest digital cameras and color correction systems.

No other monitor portrays your creative vision more accurately. Support for 3D LUTs allows the Dolby Professional Reference Monitor to be calibrated to perfectly match digital screening environments, and to emulate the response of film-print stocks during the digital intermediate color correction process. On the set, the Dolby Professional Reference Monitor displays color looks and previsualization with 1D and 3D LUTs.

Flexible and Cost-Effective

By emulating virtually any other display device, the Dolby Professional Reference Monitor replaces an entire collection of costly monitors that may currently be used for color correction, mastering, and quality control.

The Dolby Professional Reference Monitor takes flexibility one step further by supporting DCI P3, all high-definition formats over HD-SDI, and 2K video content. By emulating the full gamut of film, the Dolby Professional

Reference Monitor even makes DCI P3 color grading possible without using a digital projector.

Resolution to Spare

The Dolby Professional Reference Monitor goes beyond 10 bits, with support for emerging 12-bit formats. Featuring a 42-inch (diagonal) LCD flat-panel display with a resolution of 1920 by 1080 pixels and a refresh rate of 120 Hz, the Dolby Professional Reference Monitor delivers a spaciouly wide angle viewing area of plus or minus 45 degrees.

The backlight of the Dolby Professional Reference Monitor consists of 1,500 RGB LED triads, with the light element from each R, G, and B element independently controlled, frame by frame, to create a full-color backlight image. This image, together with the image on the LCD, produces the final image, one of extended dynamic range with the widest and most accurate color gamut available in a flat-panel monitor.



Intuitive Access

With the Dolby Professional Reference Monitor, there are no onscreen displays to interfere with the image on the monitor. That's because an included external desktop or rack-mounted remote controller handles all functions. The remote gives you immediate, intuitive access to all of the Dolby Professional Reference Monitor's features, functions, and parameters with simple, easy-to-use menus.

Designed for the Real World

Built to Dolby's exacting standards, the Dolby Professional Reference Monitor supports today's digital technology workflows. And it's ready for the next generation in high-dynamic-range digital intermediates when they arrive.

Unprecedented Consistency and Accuracy Across the Entire Workflow

ACQUISITION

- Wide dynamic range
- High contrast ratio

COLOR CORRECTION

- True blacks
- Exceptional dark detail
- Accurate color

QUALITY CONTROL

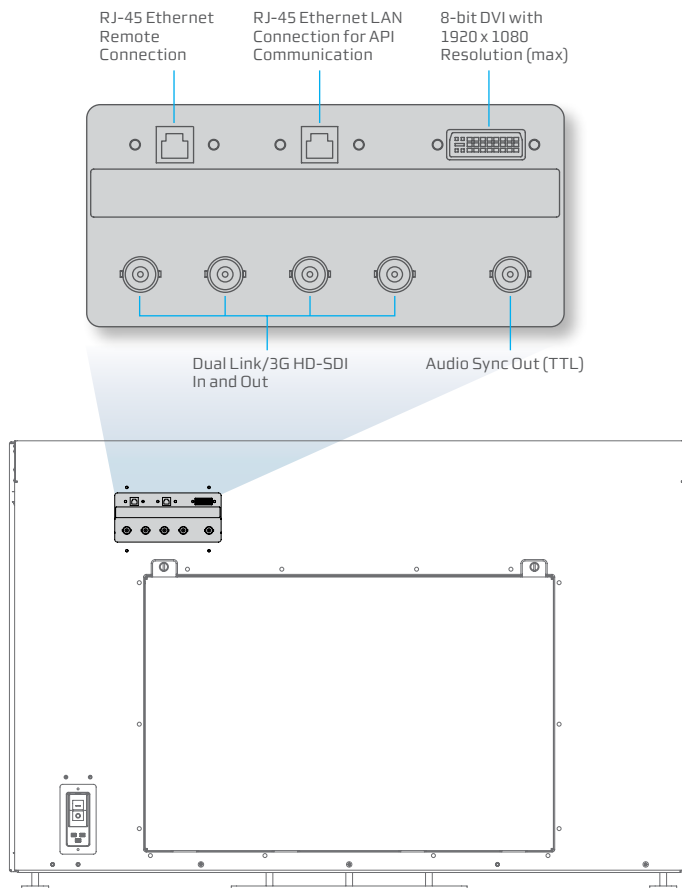
- Precise image
- Consistent performance



Depend on Dolby Quality

Count on exceptional reliability with the Dolby Professional Reference Monitor, thanks to the lengthy lifespan of LCDs and the more than 50,000-hour lifespan typical of LEDs. The Dolby Professional Reference Monitor also ensures color stability because the LEDs are burned and tested prior to assembly. R, G, and B gain controls let you manually fine-tune the color balance of the monitor to fit your viewing conditions.

The Dolby Professional Reference Monitor is the monitor of choice when accurate color is critical and second best just won't do. See it for yourself, and imagine the possibilities.



Dolby PRM-4200 Professional Reference Monitor Specifications

Digital Video Inputs

Two input connectors, with support for 1.5G and 3G SDI, single and dual link

Digital Video Interfaces

SMPTE 295M, SMPTE 294M, SMPTE 292M, SMPTE 372M, SMPTE 424M, SMPTE 425M

Video Scanning Formats

ITU-R BT.601, SMPTE 293M, ITU-R BT.1358, SMPTE 274M, SMPTE RP211

Video Outputs

Two output connectors, with support for 1.5G and 3G SDI, single and dual link

Audio Sync Output

75Ω BNC, active high TTL-level output

LCD Panel

Size: 1,067 mm diagonal (42 inches diagonal)

Resolution: 1920 × 1080 pixels

Refresh Rate: 120 Hz

Viewing Angle: 90° horizontal

Maximum Luminance:

CRT Reference Mode: 120 cd/m²

Dynamic Reference Mode: 600 cd/m²

Primaries/Gamut

Rec. 709, SMPTE C, EBU, P3, Custom

Operation Modes

CRT Reference, DYN Reference, LCD Emulation, PDP Emulation, Custom 1 Emulation, Custom 2 Emulation

White Point

D54, D65, D93, Digital Cinema, Custom

Gamma

2.2, 2.4, 2.6, Custom

Power Consumption

1,000 VA maximum

Line Voltage Compatibility

85–260 VAC, 50–60 Hz

Operating Temperature

0°C–35°C

Optimum: 20°C ±5°C

Storage Temperature

–20°C to 70°C

Humidity

30%–90% relative humidity, noncondensing

Main Body Dimensions

991 × 660 × 381 mm (39 × 26 × 15 inches)

Remote Controller Dimensions

2-U rackmount or tabletop use

Weight

68 kg (150 lb)

DISCLAIMER OF WARRANTIES

Equipment manufactured by Dolby Laboratories is warranted against defects in materials and workmanship for a period of one year from the date of purchase. There are no other express and implied warranties and no warranty of merchantability or fitness for a particular purpose, or of noninfringement of third-party rights (including, but not limited to, copyright and patent rights).

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