Dolby® Professional Reference Monitor PRM-4200

You work hard to create perfect images. Only the Dolby® Professional Reference Monitor can reveal every detail. The first flat-panel monitor to truly outperform a CRT, the Dolby PRM-4200 delivers the most precise color accuracy possible, with true blacks, exceptional dark detail, high contrast, wide dynamic range, and reliable performance over a long lifetime. Insist on the most trusted professional display to create your next project.

The Dolby Professional Reference Monitor, the new industry-standard Grade 1 display, is the only monitor that uses Dolby patented dual modulation technology to display the full dynamic range, high contrast ratio, and wide color gamut that leading-edge digital cameras and film stocks deliver.

The First Monitor to Outperform a CRT

- Reveals 100 percent of DCI P3 and Rec. 709 color gamuts.
- Displays native 12-bit depth images: other monitors claim 12-bit inputs and 12-bit processing, but only the Dolby Professional Reference Monitor displays a native 12-bit image and 100 percent of the DCI P3 gamut.
- Enables color-critical work for feature films, with or without a digital cinema projector.
- Allows customization to precisely emulate virtually any display device, even tablets, at the touch of a button.
- Displays the full dynamic range of the latest digital cameras and of emerging 12-bit formats for accurate on-set viewing of all captured image details.
- Supports SD, HD, and 2K signals up to 2048 × 1080p, and 12-bit DCI XYZ.
- Enables D54, D60, D65, D93, digital cinema, and user-defined custom white points.

Supported Color Gamuts

- Rec. 709
- DCI P3
- SMPTE C
- EBU
- Custom

Dolby's Patented Dual Modulation Technology

- Delivers the most precise color accuracy available
- Renders true black levels and the most accurate dark detail
- Provides high contrast and wide dynamic range at all luminance levels in all formats

Reliable Workflow Support

- Support for high-frame-rate formats: accurately displays 48 and 60 frames per second.
- 1D, 3D, and Nucoda 3D LUT support.
- AMPAS ACES workflow support.
- Exceptionally consistent remote monitoring: calibrate multiple Dolby Professional Reference Monitor units in different locations to confidently display precisely the same images, wherever you work.
- Workflow versatility: use for color grading, editorial, visual effects, restoration, previsualization, mastering, quality control, on-set digital acquisition, remote reviews, and additional workflows.
- Long life span for higher return on investment and lower cost of ownership.

World-Renowned Dolby Support

- One-year hardware warranty plus three-year software maintenance
- Global Dolby Customer Support

Dolby Display Calibration Services

The quality of your work depends on the performance of your tools. Who better to trust than Dolby to deliver the highest level of calibration services? Much like the calibration services Dolby provides to studios, mixing suites, and cinemas, convenient and affordable field calibration is now available for the Dolby Professional Reference Monitor PRM-4200.

- Ensures the best quality performance of your monitor for the images you create
- Gives you confidence in precise color accuracy, white point, grayscale tracking, and uniformity
- Reduces cost of ownership significantly by removing the need for expensive calibration equipment
- Makes available the only current field-calibration service by a reference-monitor manufacturer

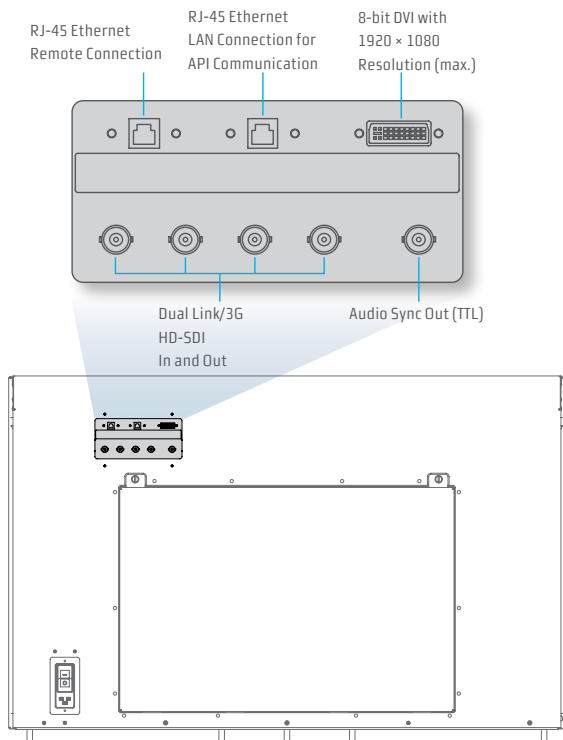## How Dolby's Patented Dual Modulation Technology Works

The backlight of the Dolby Professional Reference Monitor consists of over 4,500 individual red, green, and blue (RGB) LEDs. The light from each R, G, and B element is independently controlled, frame by frame, to create a full-color backlight image. The backlight is modulated in concert with the LCD to produce a native 12-bit-depth image with extended dynamic range and the widest and most accurate color gamut available in a flat-panel monitor.

Remote Controller

- Intuitive remote control of all features and functions, with easy-to-use menus
- No image interference from onscreen menus
- R, G, and B gain controls to fine-tune to your viewing conditions
- Ability to store and select customized configurations and presets at the push of a button
- Onboard USB port for easy importing of configurations, presets, and updates

Rear Panel Detail

RJ-45 Ethernet Remote Connection

RJ-45 Ethernet LAN Connection for API Communication

8-bit DVI with 1920 × 1080 Resolution (max.)

Dual Link/3G HD-SDI In and Out

Audio Sync Out (TTL)

Specifications

LCD Panel
Size: 1,067 mm diagonal (42 inches diagonal)
Resolution: 1920 × 1080 pixels
Refresh Rate: 120 Hz
Viewing Angle: 90° horizontal; 45° left and right from center

Maximum Luminance
CRT Reference mode: 120 cd/m^2
Dynamic Reference mode: 600 cd/m^2
Adjustable from 48 cd/m^2 to 600 cd/m^2

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, D60, D65, D93, Digital Cinema, Custom

Gamma
2.2, 2.4, 2.6, Custom

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

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

Power Consumption
460 W typical (CRT mode, full field image)

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
Width: 1,008 mm (40 inches)
Height: 667 mm (26 inches)
Depth (body): 329 mm (13 inches)
Depth (body, including front-leg overhang): 365 mm (14 inches)

Remote Controller Dimensions
2-U rackmount or tabletop use
Width: 430 mm (17 inches)
Height: 70 mm (3 inches)
Depth: 83 mm (3 inches)

Weight
Main body: 68 kg (150 lb)
Remote controller: 1.13 kg (2.5 lb)

Specifications subject to change. Warranty information is available at dolby.com/warranty.

For more information, or to arrange an evaluation, see **dolby.com/monitor**.

Comments from Industry Professionals

"The Dolby Professional Reference Monitor allows us to help content creators realize their artistic vision with the confidence of the highest level of color accuracy available today."

Stefan Sonnenfeld
President, Deluxe Creative Services Group

"At this stage, the Dolby PRM-4200 is hands down the best grading monitor available since the CRT. We know of no other monitor that comes close to emulating a CRT the way the Dolby product can."

Scott Harris
Colorist, Glassworks Amsterdam

"Why spend the money on the Dolby monitor? The answer is simple: confidence. Having technological confidence in a display device gives confidence to the colorist. A confident colorist helps make a confident client."

Michael Cioni
CEO, Light Iron

"The ease of use and flexibility of the monitor, its robust build and future-ready technology make it an obvious investment in a growing part of our business."

Kevin Horsewood
Colorist, Prime Focus

"The Display Calibration Service gives us confidence with our clients because it's backed by the Dolby brand."

Clark Muller
Colorist and CEO, Incendio

"With the number of films being processed by our studios rapidly rising, it is necessary that we ensure they meet the most exacting production standards possible. The PRM-4200 guarantees that viewers will perceive a film exactly as its director intended it to be seen."

Surachedh Assawaruenganun
CEO, Kantana Digital Post

"The Dolby reference monitor is brilliant in every sense! I used the Dolby Dynamic Reference mode for some tradeshow presentations of Alexa material graded in Film Master, and this monitor is as close to looking out a window as I have ever seen.

"Not only is the Dolby reference monitor reliably accurate, but its size and clarity are very easy on the eyes. And after a long day of intense grading, I felt none of the eyestrain that I have noticed from other monitors."

Kevin Shaw
Colorist, instructor, and consultant;
Cofounder of the International Colorist Academy

"My biggest like about the monitor is the size—I swear that you'll never see your image looking that good again. Walking into a grading room (Incendio Santa Monica), the monitor is very impressive. There are no other type of displays out there that can match the image performance and accuracy of the Dolby reference monitor."

Nigel Hadley
Nucoda Senior Product Manager, Image Systems