



color management solutions



Get a perfect reflection of your idea with the LaCie electron monitors, the most complete solution available today for graphics professionals.

- The **electron19blue** and the **electron22blue** feature a 100% flat screen for a geometrically perfect image and improved eye comfort. With 5 USB connectors, they are ready for tomorrow's standard.
- The unique light absorbing blue frame, the color enhancing blue hood (black inside) and the optional **blue eye** hardware calibrator guarantee the most consistent and accurate colors possible.
- The **electron24** with its 22.5" diagonal viewing area and its hood is the perfect monitor for full sized digital page spreads (A3) and wide format video creations.

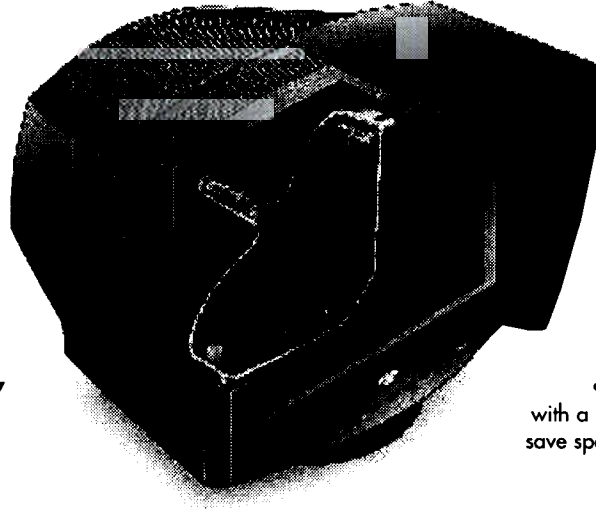


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electron blue monitors

100% flat Aperture Grille technology



• **22" or 19" tube**, with 20" or 18" diagonal viewing area

• **100% flat screen** for zero geometrical distortion, less reflection and better eye focus



• **5 USB ports** 4 in the back and 1 in the front to fit tomorrow's standards

• **on-screen display** gives you full control of the monitor

• **color-enhancing hood** shields against unwanted reflections and shadows

• **dark blue frame** helps your eyes to focus on the screen

• **light-absorbing black** inside the hood to minimize the effects of the surrounding light

• **new short neck design** with a smaller footprint to save space on your desk

• **specially suited to graphics professionals**

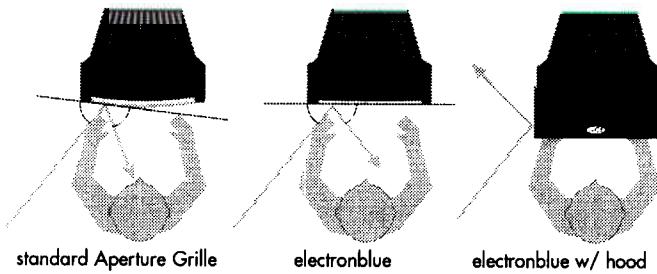
With their fine Aperture Grille dot pitch and flat screen, the LaCie electron blue monitors are truly dedicated to imaging professionals looking for the best quality and value.

• **color management**

The LaCie electron blue monitors are compatible with the LaCie blue eye USB to be released in September 1999. LaCie blue eye is a hardware monitor calibrator, so unlike software calibration solutions, it adjusts each gun inside the monitor prior to creating Photoshop™ or ColorSync™ profiles.

• **total of 5 USB connectors**

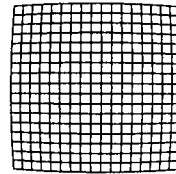
With 2 up-stream USB connectors and 2 down-stream connectors on the back and 1 down-stream connector on the front, it takes the USB standard to a new level of versatility.



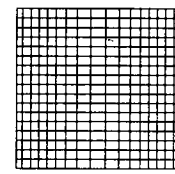
standard Aperture Grille

electronblue

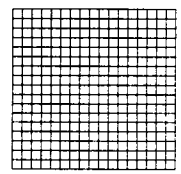
electronblue w/ hood



Shadow Mask



Standard Aperture Grille



electronblue

• **less reflection**

The LaCie electron blue monitors feature a natural flat CRT both vertically and horizontally. This flatness reduces eye strain as it reduces the focus distance difference between each point of the screen and the user's eyes. Undesirable reflection and shadow are reduced to almost nothing by the addition of the unique blue frame and the LaCie color-enhancing hood (black inside).

• **geometrically right**

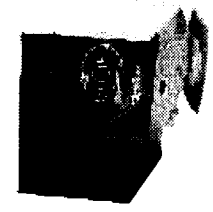
A shadow mask monitor is shaped like a section of a large sphere, causing a "fish-eye" distortion to the image. A conventional aperture grille monitor is like a small section of a cylinder. This results in less vertical distortion but horizontal distortion remains. The electron blue monitors produce no distortion because the projected image is 100% flat. Now you can see on a flat screen what you print on a flat paper.



electron monitors

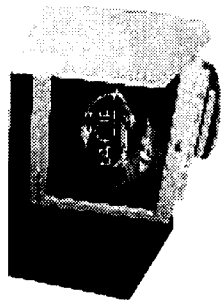
electron19t

- Triton™ Aperture Grille tube offers sharper details and more vivid colors for all prepress professionals.
- Maximum resolution of 1600x1200 at 75Hz and variable dot pitch for improved corner-to-corner picture sharpness.
- Delivered with the LaCie color-enhancing hood to ensure consistent and matching colors.



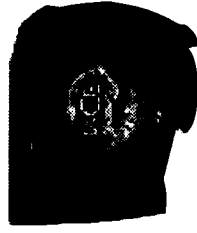
electron24

- 22.5" diagonal viewing area fits double-page spreads plus toolbars for the best productivity in all applications.
- Optional 8MB graphic card for a maximum resolution of 1920x1200 at 76Hz.
- 20% wider screen than a 21" offering longer timeline view and resolution of 1920x1080 at 85Hz (16:9 mode) – perfect for video professionals.



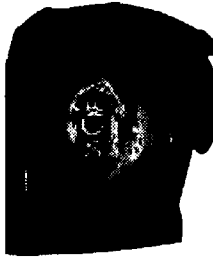
electron19blue

- The first 19" monitor specifically designed for graphics professionals.
- Unique blue frame and color-enhancing blue hood (black inside) to ensure the most consistent lighting conditions.
- 100% flat Diamondtron Aperture grille tube guarantees no geometrical distortion, less reflection and reduced eye strain.
- Optional blue eye hardware calibrator to ensure the most accurate colors.
- Total of 5 USB connectors (2 upstream and 3 downstream).



electron22blue

- 100% flat Diamondtron Aperture grille tube guarantees no geometrical distortion, less reflection and reduced eye strain.
- Unique blue frame and color-enhancing blue hood (black inside) to ensure the most consistent lighting conditions.
- Maximum resolution of 1800x1440 pixels at 80Hz provides sharp and stable picture.
- Optional blue eye hardware calibrator to ensure the most accurate colors.
- Total of 5 USB connectors (2 upstream and 3 downstream).



	electron19t w/hood	electron24 w/hood	electron19blue w/hood	electron22blue w/hood
viewable area	18" (14.4x 10.8"/365x274mm)	22.5" (19.1x12.3"/312x485mm)	18" (14.4x 10.8"/365x274mm)	20" (15.0x11.9"/406x304mm)
technology	Triton Aperture Grille	Triton Aperture Grille	Diamondtron Flat Aperture Grille	Diamondtron Flat Aperture Grille
horizontal scan range	30.94 kHz	30.96 kHz	31.95 kHz	30-121 kHz
system requirements	Mac and PC plug & play	Mac and PC plug & play	Mac and PC plug & play	Mac and PC plug & play
WxHxD	17.5x17.9x18.4"/(444x455x467mm)	22.8x19.7x21.6"/(581x501x550mm)	17.8x18.2x17.9"/(452x462x454mm)	19.7x19.7x19"/(500x500x482mm)
regulatory compliance	MPRII, TÜV, CE, TCO 95...	MPRII, TÜV, CE, TCO 95...	MPRII, TÜV, CE, TCO 95...	MPRII, TÜV, CE, TCO 95...
warranty	3 years	3 years	3 years	3 years
options	8MB Mac video cards Color Enhancing Hood, Calorific	8MB Mac video cards Color Enhancing Hood, Calorific	8MB Mac video cards Color Enhancing Hood, Calorific	8MB Mac video cards Color Enhancing Hood, Calorific
connectors	HD-15	BNC, HD-15	BNC, HD-15	BNC, HD-15

made for ideas

www.lacie.com

LACIE blue eye

hardware calibrator for the blue series



US, June 99



UK, April 99



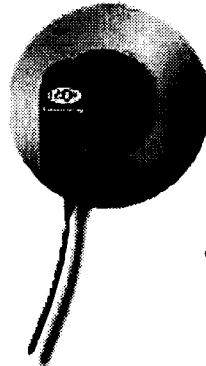
US, December 99

- There are three popular methods of implementing ColorSync™ in the color process. 1) using generic ColorSync™ profiles. 2) customizing these profiles with software. 3) creating profiles with a colorimeter. However, these 3 methods treat the imbalances that can occur in every monitor as a given and do not try to change them. They only try to work around this problem by tweaking the signal from the CPU. Unfortunately, while this method improves the color accuracy, it also reduces the gamut of the monitor.



- The **blue eye** has a completely different approach: it carries out hardware calibration through a USB connection between the Macintosh and the blue monitor. Unlike the video connection, which is a one-way flux from the Macintosh to the monitor, the USB connection enables the monitor and the CPU to exchange information, allowing to calibrate the gun of the monitor. The blue eye itself is connected to the ADB port on the back of the CPU.

- The **blue eye** first adjusts each electron gun (red, green and blue) individually until they are at an optimum setting. It then creates a ColorSync™ profile which can be used in all ColorSync™-compatible applications.



- This process together with the hood and the non-reflective casing guarantee the most accurate and consistent colors as well as the widest dynamic range on the monitor.

- With blue eye, the white point, gamma, luminance and black level of the monitor can all be adjusted to a precision of 1 delta E, undetectable to the human eyes.
- Other features include the snapshot and clone function (to reproduce the behavior of another monitor on a blue electron); the control of all geometrical settings using the mouse and the automatic control of the monitor settings.

• color management

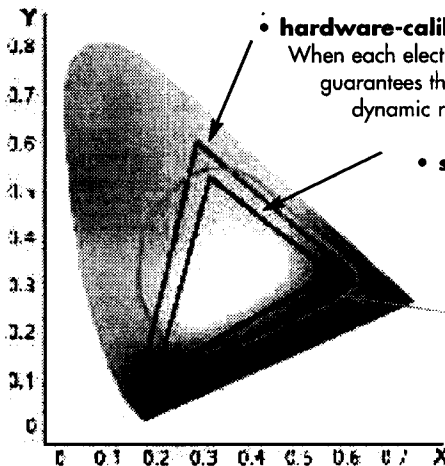
This chromatic chart represents the spectrum of colors visible to the human eye and the range of colors available to a monitor and a printer.

Color management involves converting the color from one device to another with as little loss of accuracy as possible.

The blue eye guarantees the accuracy and stability of colors on the electronblue monitors.

• color enhancement

Surrounding light can affect the way the eye sees colors on a monitor. The hood (matt black interior) and the dark blue color of the monitor compensate for this.



• hardware-calibrated display (RGB)

When each electron gun is individually adjusted, it guarantees the most accurate colors and the widest dynamic range that the monitor can achieve.

• software-calibrated display (RGB)

To simulate the right white point, the light output is dimmed. Because the dynamic range of the monitor is reduced, the number of colors available on screen is restricted.

• printer (CMYK)

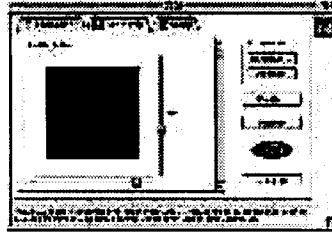
The closer the monitor's color area is to that of the printer, the more accurate the on-screen simulation of a print job will be.

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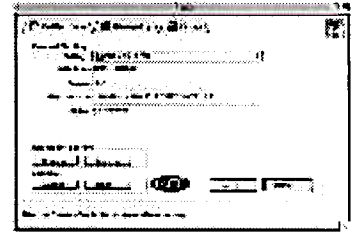
LACIE blue eye



- Hardware calibration is carried out through a USB connection. The monitor connection is specified through the setup menu. The blue eye then looks for a LaCie electronblue monitor.



- All the geometrical settings normally controlled through the on-screen display (OSD) can be controlled by the mouse with the help of specific targets for each adjustment.



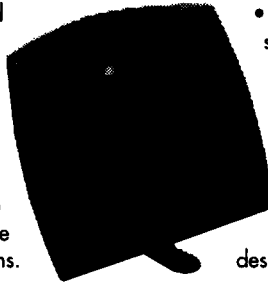
- Before executing the hardware calibration, choose between five presets or create your own custom settings of white point, luminance, black level and gamma for your specific needs.

colortron



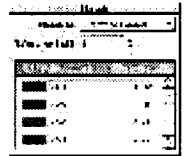
- The Colortron for Macintosh® and Windows® 95 or NT (optional) provides the features and benefits of many color measurement products in one, including monitor calibration.

- It has been specially designed to help publishing professionals solve color prepress problems.



- The Colortron is a all-in-one digital color sensor for measuring and capturing color from any surface including paper, photos, transparencies or textiles.

- While it precisely captures color data, Colorshop manages the data with a variety of easy-to-use graphical tools developed for both designers and printers.



graphics accelerator cards

- LaCie graphics accelerator cards give you maximum performance from your monitor in terms of resolution, refresh rate and number of colors.
- As graphics accelerators, they also let you optimize the redraw speed, rendering speed or scrolling time in a variety of 2D and 3D applications.
- LaCie's 8MB cards support the wide-aspect resolutions of the electron24.

resolution	colors	refresh rate
1152x870	millions	75-100 Hz
1280x1024	millions	60-85 Hz
1600x1200	millions	60-85 Hz
1920x1080	millions	60-72 Hz

