The New LCD Standard For Stereoscopic Viewing
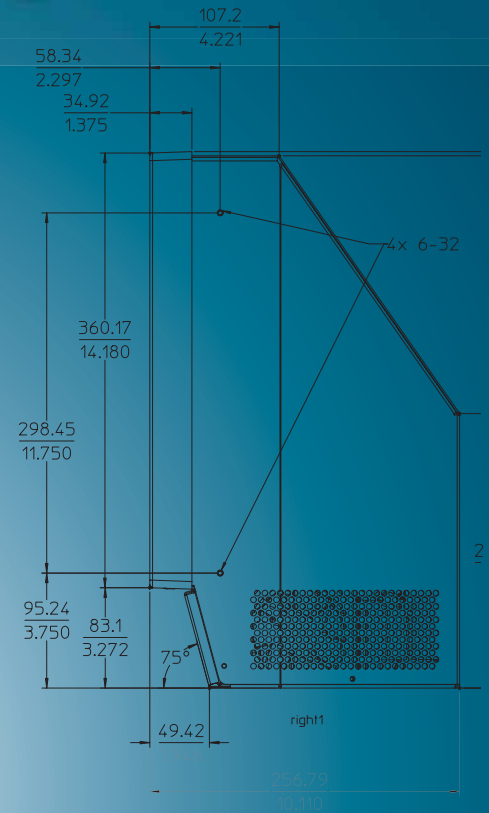

Perceiva DSD 190

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View From Virtually Any Angle

107.2
4.221

58.34
2.297

34.92
1.375

4x 6-32

360.17
14.180

298.45
11.750

95.24
3.750

83.1
3.272

75°

right1

49.42

Perceiva DSD 190

How the Perceiva DSD 190 Works.

The Perceiva uses a light source similar to that of a rear projection TV, to create the highest brightness and contrast needed to achieve excellent stereo performance. The Perceiva's patented and licensed LCD technology, eliminates the flicker inherent in CRT systems and presents simultaneous left and right stereo images to the viewer.

The wide angle viewing is achieved by using a special light diffusing anti-reflective front glass screen that maintains contrast even in bright office environments. Each image is encoded with polarized light and decoded when the viewer wears special polarized glasses.

What Makes the Perceiva DSD 190 Unique?

The Perceiva's unique technology lets multiple viewers simultaneously view images from the front of the display – up, down, left & right - from virtually any angle, so you no longer have to be situated in that "sweet spot" directly in front of the display. The Perceiva's display is several times brighter than traditional CRT based 3D systems with minimal crosstalk between the left and right stereo images and unlike other technologies, it preserves full resolution for each eye.

The Perceiva is easily viewed in a typical office lighting environment which makes it perfect for training purposes and group presentations.

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Plug And Play Setup

- **Flicker free viewing**
- **Lightweight**
- **Compact footprint**
- **Wide angle-of-view**
- **Quick & easy setup in less than 10 minutes**
- **Drop in replacement for most 120 Hz CRT based stereo systems**

Perceiva DSD 190

The Perceiva Advantages:

The Plug and Play Setup

The Perceiva is easily setup in a few minutes using either a DVI-D or VGA input and most stereo ready graphics cards (such as nVIDIA Quadro FX and ATI FireGL), work seamlessly. Resolutions from 800 X 600 up to 1280 X 1024 are supported with refresh rates of 60 – 76 Hz. Each display is individually calibrated and together they provide a maximized unsurpassed stereo performance.

True Stereo Color

The Perceiva uses the latest in LCD and video processing technology to ensure maximum color fidelity and performance to the point of calibrating the left and right eyes so that each color and whites are closely matched over the entire screen.
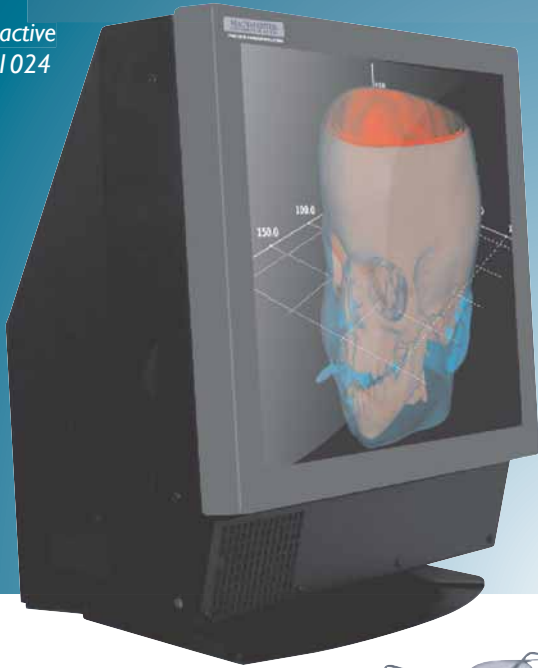
True Stereo Separation

The video processing technology for True Stereo Color is also used to achieve the best separation of the left and right stereo images over the entire screen. To maximize performance for the image data, each display has a Look Up Table (LUT) that controls color and polarization.

Presenting The Revolution In LCD Stereoscopic Displays

19" Diagonal active area, 1280 x 1024 resolution

Perceiva DSD 190

VESA mounting option on back or underside of display. Also rack-mountable.

DVI-D   VGA   BNC input for frame sync   Universal power input

Perceiva DSD 190 Performance:

- 19.0" diagonal active area
- Compact footprint and lightweight at 25lbs
- Two VESA mounting options and standard 19-inch rack-mount capable
- Very wide viewing angle in 2D and 3D modes (>160 degrees)
- Excellent color fidelity
- Bright display easily viewable in office lighting environment
- Elliptically polarized stereoscopic glasses optimized for the best performance and stereo balance
- Three modes of operation: 2D, 3D and auto-switching 2D/3D; Stereo-in-window capable
- Full resolution in either mode
- One button to invert left/right
- One button to manually switch between 2D and 3D modes

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sales@nuvision3d.com
800-920-9327 • 503-614-9000
1815 NW 169th Pl, Suite 3060
Beaverton, OR 97006

Perceiva DSD 190 Specifications:

- VGA or DVI-D input up to 1280x1024x76Hz
- Frame sequential stereo input @ 60-76Hz. Compatible with most stereo-ready graphics cards (nVIDIA, ATI, etc.)
- 1280 x 1024 pixels, 0.294mm pixel pitch
- On axis contrast ratio >1000:1
- Off axis contrast ratio >600:1
- Excellent 3D average system extinction < 1.0%
- 2D brightness 200 CD/m2 (center) typical
- Luminance non-uniformity < 25% center to corner
- 3D brightness 40 CD/m2 per eye typical
- Lamp power save mode; user selectable from on screen menu
- 4000 hr average bulb life to 50% brightness
- RoHS compliant
- 100 mm VESA compliant mounts
- Power Consumption: 250 watts

Connectors
   Video - D-sub 15 pin for VGA, DVI-D (Digital Only)
   BNC input for TTL level stereo frame sync signal
   AC power input & master switch w EMI filtering
      (Auto-switching, dual fused, 100-240 VAC)

Weight
   Shipping: 35 lbs (15.8 kg),
   Display: 27.5 lbs (12.5 kg)

Dimensions
   Shipping: 16" x 22" x 25" (41cm x 56cm x 63.5cm)
   Display: 10.75" x 17.5" x 19" (28cm x 45cm x 48cm)

RoHS COMPLIANT 2002/95/EC

LISTED
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ITE
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CE   FC