

Z800 3D VISOR™

The eMagin **Z800 3D Visor** is the first product to deliver on the promise of an immersive 3D computing experience. Anyone can now surround themselves with the visual data they need – without the limits of traditional displays and all in complete privacy. Now, gamers can play “virtually inside” their games, personally immersed in the action. PC users can experience and work with their data in a borderless environment.



Two high-contrast eMagin SVGA 3D OLED Microdisplays deliver fluid full-motion video in more than 16.7 million colors. Driving the user's experience is the highly responsive head-tracking system that provides a full 360-degree angle of view. eMagin's specially developed optics deliver a bright, crisp image.

- Brilliant 3D stereovision with hi-fi sound for an immersive experience
- Superb high-contrast OLED displays delivering more than 16.7 million colors
- Advanced 360 degree head-tracking that takes you “inside” the game
- Comfortable, lightweight, USB-powered visor; PC compatible

Weighing less than 8 oz, the eMagin Z800 3D Visor is compact and comfortable. While the eMagin OLED displays are only 0.59 inch diagonal, the picture is big – the equivalent of a 105-inch movie screen viewed at 12 feet.

The Z800's head-tracking system enables users to “see” their data in full 3D-surround viewing with just a turn of the head. Virtual multiple monitors can also be simulated. Designers, publishers and engineers can view multiple drawings and renderings as if they were each laid out on an artist's table, even in 3D.

Only eMagin OLED displays provide brilliant, rich colors in full 3D with *no flicker* and *no screen smear*. eMagin's patented OLED-on-silicon technology enhances the inherently fast refresh rates of OLED materials with on-chip signal processing and data buffering at each pixel site. This enables each pixel to continuously emit only the colors they are programmed to show. Full-color data is buffered under every pixel built into each display, providing flicker-free stereovision capability.

The eMagin Z800 3D Visor integrates state-of-the-art audio with high-fidelity stereo sound and a built-in noise-canceling microphone system to complete the immersive experience.



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← 360 degree panoramic view →

eMagin Z800 3D Visor Features

- 360 degree horizontal field of view
- State-of-the-art head tracking device
- Full SVGA stereovision (800 x 3 x 600) OLEDs
- High contrast (>200:1) ratio
- Full color (>16.7 million) pixels
- Low power (USB-powered) visor
- Lightweight, ergonomic (<8 oz) visor
- Built-in stereo sound and noise-canceling microphone



Benefits

- Fully immersive computing experience
 - Play inside the game
- Extend your view of the spreadsheet to every column and row
 - View multiple monitors at once
- Brilliant, high contrast colors
 - Sharper high contrast images provide better detail
 - Experience the environment
- Low power and small form factor
- Use Z800 at home, in the office, on the plane
- Maximizes your laptop battery "life"



Specifications

Model Name	eMagin Z800 3D Visor
Viewing Equivalent	105 inch diagonal movie screen viewed at 12 feet
Aspect Ratio	4 x 3
Resolution	SVGA – 800 x 3 x 600 per display (1.44 megapixels)
Stereovision	Automatic detect of frame-sequential stereovision data
Number of Colors	24-bit color for more than 16.7 million
Brightness	>50 cd/m ²
Headtracking	360 deg horizontal, >60 deg vertical
Contrast Ratio	>200:1
Power Consumption	<1W typical, 1.5W peak
View Angle	~ 40 deg diagonal FOV
Panel dimension	24 mm W X 23 mm H X 9.5 mm D
Weight (display set)	<8 oz
Signal Input Mode	RGB Signal Input (PC D-Sub) 24 bit per pixel color
Audio Output	Attached stereo sound, maximum output 1.5W
Power Supply	5V DC regulated, ~1W or USB
Microphone System	Built-in noise-canceling microphone
Operating Environment	Operating Temperature: 0° to 35°C Storage Temperature: -10° to 50°C
Related Safety & Ergonomics	Adjustable interpupillary distance & tilt adjustment, automatic shutdown after two hours (turn off and on to reset)

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