

Z800 3DVISOR™



GET INSIDE THE GAME™ with the award-winning Z800 3Dvisor delivers on the promise of immersive 3D adventure and entertainment.

eMagin's Z800 3Dvisor surrounds you with a virtual world of imagery – for your games, your entertainment, and your work. The Z800's highly sophisticated [six-degree of freedom] motion-sensing puts you in the middle of the 3D world of your favorite game. Look around just as you would in the 'real' world.

Now you can play "virtually inside" your games, personally involved in the action. Our highly responsive headtracking system provides movement within a full 360 degrees with a simple turn of the head.

With the appropriate software hooks, the Z800 3Dvisor can even track your movements: tilt your head, "jump," or "duck."

Work or play in complete privacy - the Z800's headtracking capability will also enable virtual multiple monitors and allow you to easily pan and scan to each window. Designers, publishers and engineers can view multiple drawings and renderings as if they were each laid out on an artist's table.

The Z800 3Dvisor integrates high-fidelity stereo sound and a built-in noise canceling microphone system to complete the immersive experience.

The big screen experience that take you into the action™

The Z800 provides full-color, full-motion video in either 2D or full 3D stereovision. Weighing less than 8 oz the eMagin 3Dvisor is also compact and comfortable.

Two high-contrast eMagin SVGA 3D OLED microdisplays deliver fluid full-motion video in more than 16.7 million colors. While the eMagin OLED displays are only 0.59 inch diagonal, the picture they deliver is BIG – the equivalent of a 105-inch movie screen viewed at 12 feet.

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. Each pixel continuously emits only the colors it is programmed to show.

eMagin's specially developed optics deliver a bright, crisp image with a 40-degree field of view. Use the Z800 3Dvisor with your laptop to work or play in complete privacy. Save power, too! eMagin's 3Dvisor draws all the power it needs from a standard USB port. Use a 3Dvisor instead of your standard laptop screen and extend your battery life by up to 100%.



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← 360 degree panoramic view →



eMagin Z800 3Dvisor Product Features

- Flicker-free 3D stereovision
- Virtual 105-inch display viewed at 12 ft
- Full SVGA resolution (800 x 600 full color pixels)
- Brilliant high-contrast OLED displays delivering more than 16.7 million colors
- Advanced headtracking with full 6 degrees of freedom (Z800 only)
- Comfortable, lightweight, USB-powered
- PC compatible
- High contrast (>200:1) ratio
- Built-in stereo sound and noise-canceling microphone
- Low-power (USB-powered) visor
- Lightweight, ergonomic (<8 oz) visor

eMagin Z800 3Dvisor Benefits

- Play inside the game, in a virtual world
- Experience fully immersive computing
- Pan and scan every column and row of the spreadsheet with a turn of your head
- View multiple monitors at once
- Work and play at home, in the office and on the plane, all in complete privacy
- Big screen, high-contrast color for experiencing DVD movies and games in complete privacy
- Maximize your battery "life" with a low-power, large screen display

Specifications

Model Name	eMagin Z800 3Dvisor
Viewing Equivalent	105 inch diagonal movie screen viewed at 12 feet
View Angle	~ 40 deg diagonal FOV
Headtracking	360-deg horizontal, >60-deg vertical, 6-deg of freedom motion tracking - downloadable SDK available.
Aspect Ratio	4 x 3
Resolution	SVGA - 800 x 600 triad pixels per display (1.44 megapixels)
Number of Colors	24-bit color for more than 16.7 million
Brightness	>50 cd/m ²
Contrast Ratio	>200:1
Stereovision	Automatic detect of frame-sequential stereovision data Renders 2D or 3D video
Controller Dimension	6.1 in L X 3.45 in W X 1.15 in D
Weight (display set)	<8 oz (<227 g)
Power Consumption	<1.25W typical
Power Supply	USB or 5V DC regulated
Signal Input Mode	RGB Signal Input (PC D-Sub) 24 bit per pixel color
Audio Output	Attached stereo sound
Microphone System	Built-in noise-canceling microphone
Operating Environment	Operating Temperature: 0° to 40°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)

