

W500 Digital Projector

Home Entertainment Series



- HD ready
- HQV (Hollywood Quality Video)
- Dynamic Iris
- Horizontal and vertical lens shift
- 100" @3.3m throw ratio
- Professional digital AV input -HDMI
- Dust proof with air-filter



Specifications

Display Technology	LCD
Panel	0.55" LCD 720P panel x 3
Native Resolution	Native 720P
Brightness	1100 lumens
Contrast Ratio	5000:1
Aspect Ratio	Native 16:9 (5 aspect ratio selectable)
Color	Full 1.07 billion color palette
Lens	F=1.6 to 1.88, f=18.6(wide) ~ 22.3 mm(tele)
Image Size (Diagonal)	23.5"~300"(long throw lens);
Throw Ratio	100"@3.3 m (100"@10.8 feet)
Screen Width Ratio	1.49 to 1.79:1
Throw Distance	Min: 1.52m; Max: 9.00m
Zoom Ratio	Manual zoom, 1.2:1
Lamp	140W
Lamp Life	2000 hours (3000 hours under ECO mode)
H-Synch Range	15 ~ 75 kHz
V-Synch Range	50 ~ 100Hz
Video Compatibility	NTSC, PAL, SECAM, EDTV, HDTV (480i, 480p, 576i, 576p, 720i, 720p, 1080i, 1080p)
Output Sources	12V Output x 1
Control Sources	RS232: Mini DIN 8 pin x 1 USB: B type x 1

Dimensions (W x H x D)	13.7 x 4.7 x10.9 inches (349 x 120 x 277 mm)	
Weight	8.6 lbs (3.9 Kg.)	
Power Supply	100 to 240 V ac, 50 to 60 Hz (auto switching)	
Power Consumption	200W (Max.), 5W (Stand-by)	
Audible Noise	Normal mode<32 dB, Economic mode < 28db	
OSD (On-Screen Display) Languages	English, French, German, Italian, Spanish, Dutch, Korean, Japanese, Russian, Simplified Chinese, Traditional Chinese, Swedish, Czech, Polish, Portuguese, Thai, Turkish	
Input Terminals	Analog RGB :D-sub x1 (Shared) Digital: HDMI (with HDCP) x 1 Composite video: RCA x 1 S-video: Mini DIN 4 pin x 1 Component video 1: RCA x 3 Component video 2: RCA x 3(Shared)	
Features	Dynamic IRIS HQV picture quality Dust proof with air-filter	H and V lens shift HDTV compatible Professional digital AV input (HDMI)
Accessories (Standard)	User manual User manual CD Quick start card Batteries	Power cord Component cable Remote control
Accessories (Optional)	Ceiling Mounting Kit, Spare Lamp Kit HDMI Cable	

Accessories (Optional)



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*BenQ has the right to change spec without any notice. BR-W500-070403

BenQ
Enjoyment Matters



W500 Digital Projector
Home Entertainment Series



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Enjoyment Matters

Senseye™ Contrast Enhancement



The W500 maintains high contrast, whatever's on screen and wherever you're watching.

Preserve details in dark side

The W500 uses a lens opening designed like the eye's iris, enlarging or dilating to match the levels of light in the video. That way, even in darkly lit scenes, you can make out subtle color details and visual details.



BenQ

Others

Look on the bright side

Brightness is enhanced in the video so that you can take advantage of the full range of light levels that the LCD panel is capable of displaying.



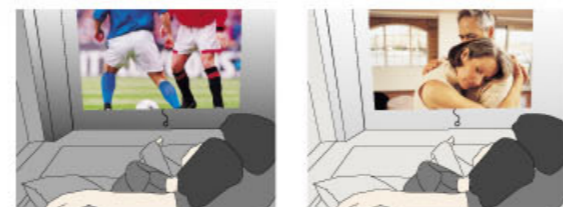
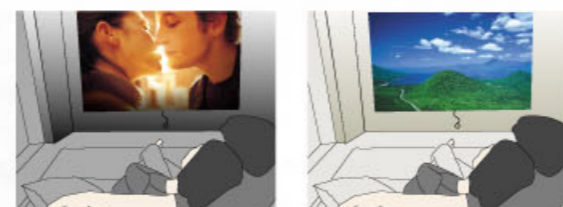
BenQ

Others



An eye to great viewing

The W500 features an iris-like lens design that mimics our own eye, adjusting the aperture after analyzing the incoming video signal. The aperture is contracted during dark scenes for truer black tones and enhanced detail, while it is enlarged for bright scenes to maximize light output and enable a wider dynamic range. No matter what type of content is on, the W500 ensures that you get the very best viewing experience.



The W500 is designed to give you pristine HD-quality video even when the source is noise-ridden SD.

Go HD

The W500 not only converts SD content such as analog TV broadcasts to HD-quality video, but it analyzes an amazing 1,024 pixels in the source for each pixel in the final HD version for native HD-like picture quality.

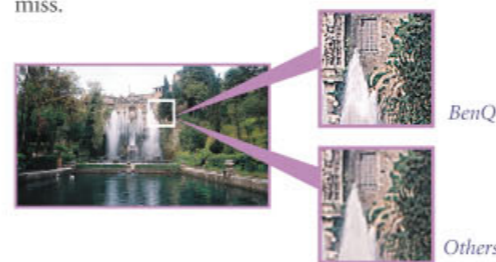


Senseye SD to HD (1024 pixels)

Regular SD to HD (16 pixels)

Get the details

The W500 meticulously fine-tunes individual pixels one at a time using a process like that used by Hollywood studios, bringing out subtle details that other projectors miss.



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Others

Stop the noise

The W500 analyzes multiple frames in source video to identify and then eliminate pixels giving rise to visual noise, and also corrects for distortions resulting from too much compression.



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Others

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Others



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Others

Senseye™ Clarity Enhancement



Senseye™ Motion Optimization

Enhanced by HQV



The W500 remedies shortcomings in regular projectors when it comes to handling fast-changing video content.

Enjoy the original

When films are used in TV broadcasts or DVDs, they must be transformed into interlaced video. In restoring the original non-interlaced video, the W500 automatically detects exactly how they were transformed-known as the "cadence"-and restores them seamlessly so you can enjoy films in their original splendor, as if they were coming straight from the movie set.



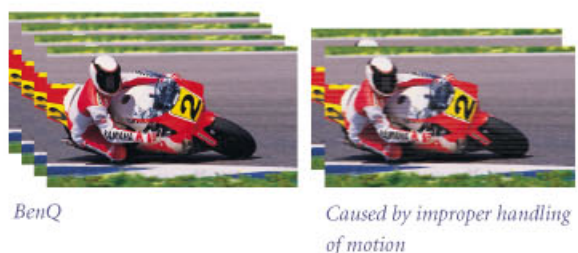
Make the "jaggies" go away

Sophisticated Multi-Dimensional Diagonal Filtering (MDDF) technology smooths away the "jaggies" that crop up along the edges of moving objects-even those lying at shallow angles of 5° to 7° while regular filters can only handle larger angles from 30° to 45°.



Look deeper

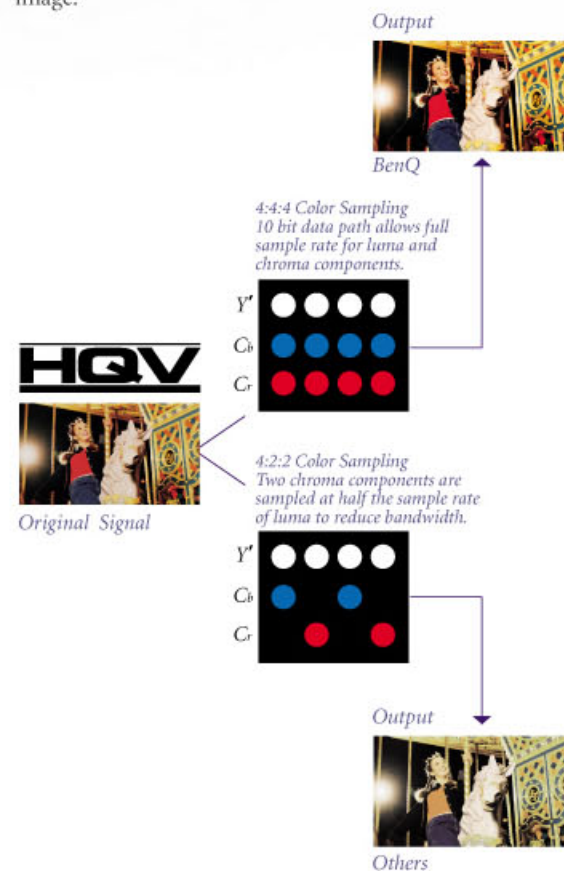
To remove artifacts around moving objects that result when converting interlaced SD video to non-interlaced HD video, the W500 examines twice as much data-four fields instead of the usual two-using advanced "motion-adaptive de-interlacing".



Getting the widest possible range of colors and displaying them with precision accuracy is another key advantage of the W500.

Color correctly

The W500 achieves greater color accuracy by handling each color signal in the video input individually, applying its brightness value directly in rendering the video. In contrast, regular projectors use a sampling process, which inevitably results in a loss of information about specific color signals and color distortion in the final projection image.



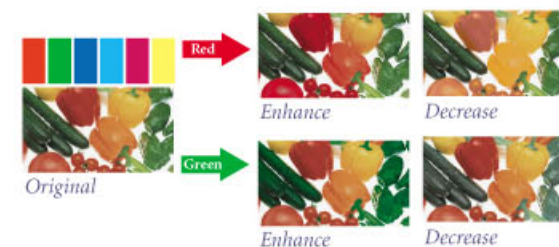
A perfect 10 bits

Able to process a full 10 bits of color data, the W500 can distinguish and display more than 1 billion colors, for far greater color precision and a more lifelike picture than possible with 8-bit technology and its 16 million colors.



Independently managed

The W500 allows independent control of each color component in the video, giving you the freedom to fine-tune tints and hues in the image exactly to your liking.



Senseye™ Color Management



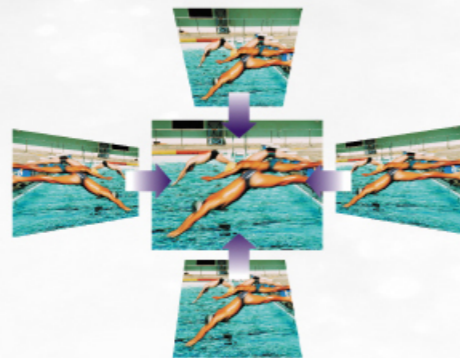
Easy Installation



Despite its rich feature set and flexible configuration options, the W500 makes getting things just right sublimely easy.

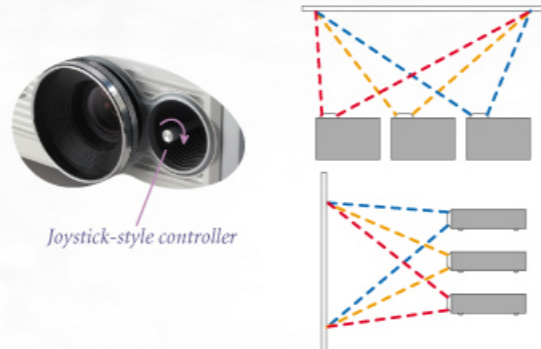
2D Keystone

2D keystone feature, there's no need to despair, as it's a snap to set everything right.



Just sit back

Effortlessly position the video exactly where you want it by shifting the lens with the joystick controller, instead of moving the whole projector. No need to get up-just relax and enjoy the show.



Easy does it

In certain situations-say, when the projection surface is angled-the projection image may no longer be rectangular, but trapezoidal or showing curved edges. With the eWarp picture correction feature, there's no need to despair, as it's a snap to set everything right.



Stay cool

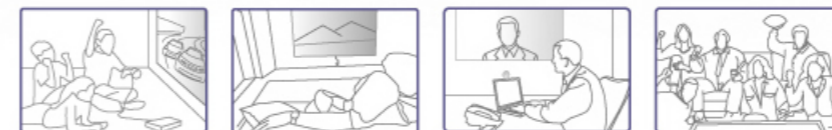
Who wants blasts of hot air in their face? The W500 puts its cooling vent on the front so air is blown away from anyone operating it or watching the show from behind. That also means you can run it on a bookshelf or against a wall without worrying about overheating.



The W500 not only brings together the features you need, it's a genuine pleasure to use.

You're all set

Powerful preset modes - including Cinema for feature films, and high brightness for brightly lit environments, as well as modes optimized for gaming and presentations - are linked to features like automatic iris lens adjustments to achieve just the right picture quality. You can even create three of your own custom modes to suit specific types of content or your particular viewing habits - and save them in user memory for future access.

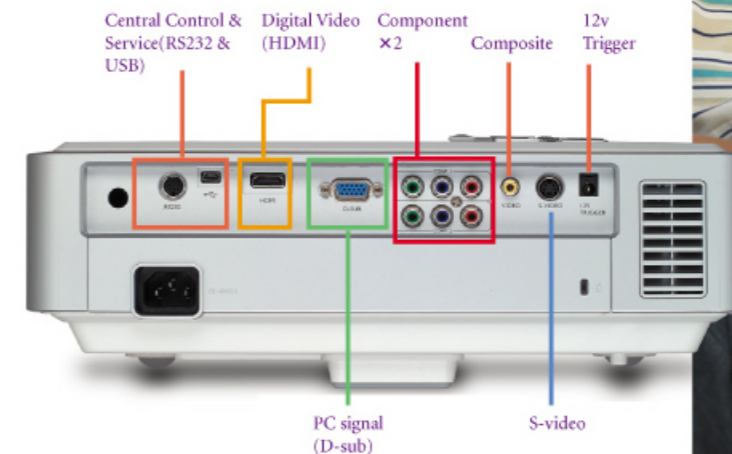


Visualized OSD for easy adjustments

Have it all



The W500 gives you access to both newer digital and traditional analog video formats with its wide range of connection interfaces. You don't have miss out on any of the fun.



Ease of Use

