



DLP™ Technology.

**Projecting Beyond
Expectations.**

Why Choose DLP™ Technology?

SUPERIOR IMAGE QUALITY

Projectors which utilize DLP™ technology are incorporating state-of-the-art innovation to produce superior image quality that is easily noticed. There are a number of key reasons why DLP™ technology delivers unmatched image quality:

HIGHER CONTRAST:

The simpler optical system reduces the unwanted effect of 'stray' light, allowing better contrast ratios which means sharper, more detailed images.



Contrast 2000:1



Contrast 600:1

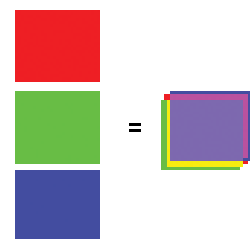
SHARPER IMAGES:

The unique single panel design of DLP™ technology means that the onscreen image is always precisely converged, without the misalignment that can occur with three panel systems.

Single Panel, no misalignment



3 Panels that will misalign over time



BETTER MOTION REPRODUCTION:

DLP™ technology has incredibly fast pixel switching speeds (thousands of times per second) which allows more accurate reproduction of fast-moving action without blur, smear or ghosting.

Faster Switching



Slower Switching



SEAMLESS IMAGES:

The high 'fill factor' of DLP™ technology creates images that are smoother and more seamless. Other technologies individual pixels in the image are clearly visible, often have a 'screen door' effect.

CONSISTENT PICTURE RELIABILITY

Only DLP™ Technology is virtually immune to degradation, so the image is reliable and consistent over the entire projector life.

A recent study conducted by the Munsell Color Science Laboratory at the Rochester Institute of Technology, an independent laboratory, conducted a test comparing the length of time before a picture starts to degrade with both LCD and DLP™-based data projectors.

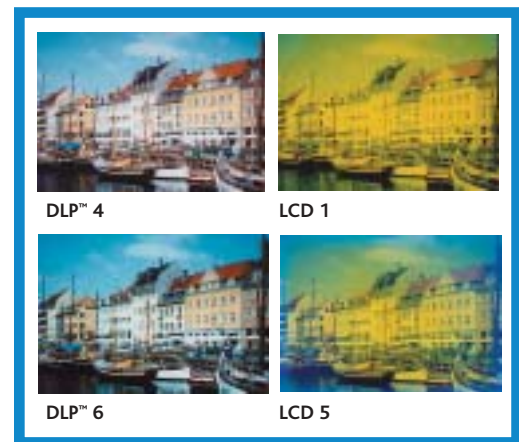
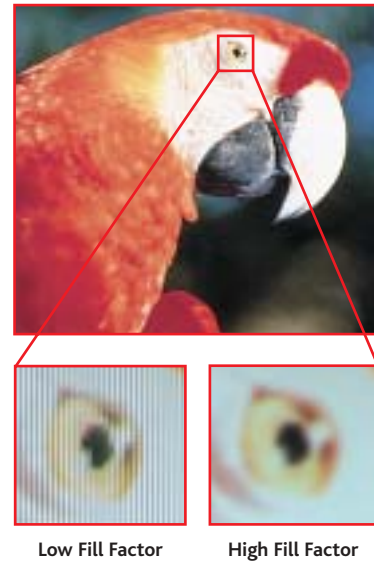
The study compared 8 DLP™-based projectors versus 7 LCD projectors, all of which were the latest models at the time of testing in 2003. All projectors were permanently switched on and subject to identical environmental factors.

Within just over 4,000 hours of testing, all of the projectors based on LCD technology had developed unacceptable degradation in the quality of the projected image. This was not true for the projectors based on DLP™ technology which exhibited consistent picture reliability throughout the entire test period.

ULTIMATE VERSATILITY

DLP™ technology allows the development of projectors that deliver more brightness per pound of weight than is possible with other technologies, making them uniquely flexible and versatile.

Projectors based on DLP™ technology are easier to take and use anywhere, and provide optimum performance whether the application is business presentations or home entertainment such as watching movies, showing photographs or gaming.



Images from RIT laboratory test at 4100 hours



Projector Buyers Guide



Purchasing the right projector can sometimes be a daunting task. Here are some specific features and considerations that can help distinguish one system from another and simplify the search for the right system

How bright should my projector be?

Projector brightness is measured in ANSI lumens. Ultra-portable (three- to five-pound) projectors start as low as 1,000 lumens and can reach an output of more than 2,500 lumens. The lumens needed depend upon the amount of ambient light present and the desired screen size.

Deciding on brightness:

- For rooms with some ambient light, 1,000 lumens is the recommended for conference room presentations.
- For presenting in bright ambient, 2,000 lumens is recommended - and is ideal for large-audience presentations.

How portable should my projector be?

Weight and size: Presentation projectors have become more portable than ever. With total weights as low as two pounds, projectors based on DLP™ technology lead the pack for lightweight.

Frequent travelers: If you're planning to travel often with your laptop and projector, a two- to five-pound unit is the way to go. Smaller footprints and lower weights make packing and stowing your projector much easier. And remember, when you're presenting in an unfamiliar venue, you'll want to be prepared for anything. Consider the following requirements for your projector.

Road warriors take note:

- Aim for a two- to four-pound projector and lower cubic inches in size.
- Smaller footprint means better portability.
- You'll want at least 1,000 lumens to combat ambient light in unfamiliar environments.
- A remote with mouse control frees you from the computer.
- For overseas travel, look for NTSC, NTSC 4.43, PAL (including PAL-M, N), SECAM, or PAL-60 compatibility.
- Invest in a sturdy travel case for easier portability and stowing.

What resolution should I look for?

Resolution is the number of pixels in a displayed image. On screen, resolution is expressed as a matrix of pixels. For example, an SVGA resolution of 800 x 600 translates to 800 pixels horizontally and 600 pixels vertically, or 480,000 pixels total. The larger the pixel count, the greater a projector's resolution.

- SVGA = 800 x 600 = 480,000 pixels
- XGA = 1024 X 768 = 786,432 pixels
- SXGA = 1280 X 1024 = 1,310,720 pixels
- HD = 1280 X 720 = 921,600 pixels

What projection lens features should I consider?

Projection lens effectiveness is indicated by a throw ratio. The throw ratio represents the projector's distance from the screen compared to the width of the projected image.

Business projectors come with either a fixed focal length or a zoom lens. With a fixed focal length lens, the projector must be moved to adjust the image size on screen. Zoom lenses allow adjustment to the image size without moving the projector.

What other features I should look for?

Plug and play: Most of today's portable projectors are plug-and-play and user-friendly and can be put together in a matter of minutes. Even with the challenges of a constantly changing environment, in most cases all you'll need wherever you go is a power outlet. Your projector will probably come with about as much hardware as a laptop (15-pin power adapter, PS/2 mouse cord, and audio/video cables).

Additional features: Keep in mind that there are many special features available to meet your specific needs, for example.

- Digital keystone correction for versatile projector placement.
- Wireless mouse controls and screen pointer.
- Multiple computer inputs.