

Which Image Quality Would You Want ?

Seeing is believing.  
To appreciate the superior picture quality of Piano Avanti, all you need to do is watch it once.

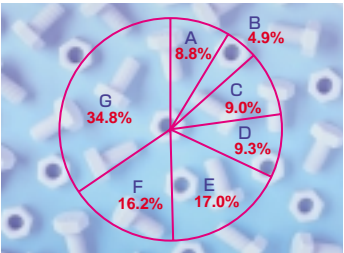
In the digital age, state-of-the art projection technology in both the living room and movie theaters is 100% digital DLP™ technology.

Piano Avanti delivers high quality images using DLP™ technology based on the DLP Cinema™ system developed by Texas Instruments and featured in the world's most advanced movie theaters. Because DLP™ technology is based on a 100% digitally-controlled device, light loss is low and a high contrast ratio is achieved, delivering realistic blacks and subtle tonal gradations.

A: Image delivered by a projector with a 2000:1 contrast ratio



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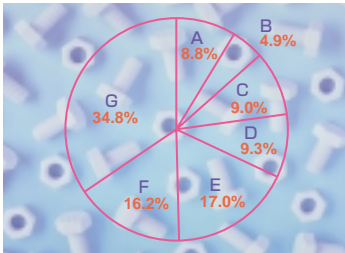
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B: Image delivered by a projector with the same brightness, but a 15% lower contrast ratio



B: Image delivered by a projector with the same brightness, but a 15% lower contrast ratio



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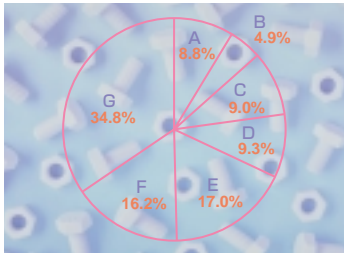
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C: Image delivered by a projector with the same brightness, but a 30% lower contrast ratio



C: Image delivered by a projector with the same brightness, but a 30% lower contrast ratio



C: Image delivered by a projector with the same brightness, but a 30% lower contrast ratio

Contrast ratio determines the quality of a projected image. High brightness alone is not enough.

High Contrast Ratio Is the Key to Crisp, Sharp Image Quality.

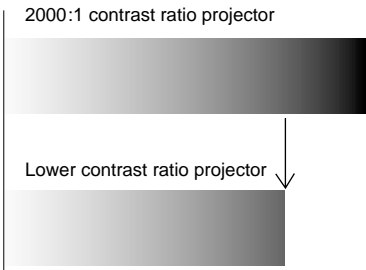
Contrast ratio is the key factor in sharpness, a crucial quality for projectors used in business and education where superior visibility is required for charts and small-font documents. The V-1100 offers superior contrast performance enabled by the DLP™ projection system. This PLUS projector delivers the best-in-class\* contrast ratio of 2000:1 and thus the sharpest image quality.

\*Among sub-3.0kg projectors in Japan. (Study by PLUS Vision Corp., November 2002)

Crisp, Sharp Image Quality: Reason 1

Black looks truly black.

A high-brightness but low-contrast projector displays a whitish image with poor visibility. Visibility largely depends on how dark black is reproduced, and is critical in projecting business and education materials which involve heavy use of black text and lines. Higher contrast means more visibility and ensures a crisp image with pure black text.



Contrast ratio influences the range of tonal gradation a projector can express.

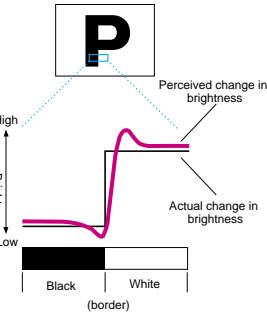
Crisp, Sharp Image Quality: Reason 2

Pictures appear clear and vibrant.

Because of an optical illusion called the Mach band effect, the human eye perceives a change in brightness between two neighboring pixels more intensely than the actual change in the amount of light. High-contrast projectors accurately reproduce the difference between the lightest and darkest portions of an image, providing crisp pictures. Look at the photos below. The photo with the black border appears sharper than the photo with the white border, even though the photos themselves are actually the same.



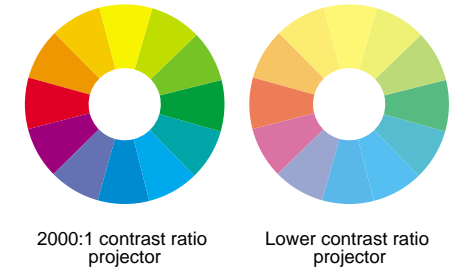
The diagram below describes how the human eye perceives the change in brightness between black and white.



Crisp, Sharp Image Quality: Reason 3

Charts set against photos are delivered with excellent clarity.

Combined images of colorful charts and photos sometimes look flat and unclear when projected, even if they look beautiful on the computer screen. But this never happens with PLUS projectors. Our projectors' high-contrast ratio ensures rich tonal gradations, allowing a chart to stand out sharply from a background photo.



\*The photos used above are conceptual renderings designed to illustrate the effects of contrast. DLP™ and the DLP™ medallion are trademarks of Texas Instruments. DMD, developed by Texas Instruments, is an ultraprecision electronic component alternative to LCD.



Experience the PLUS Advantage.  
The V Series :  
Our "Take Anywhere, Do Anything" Projectors

The world's smallest and lightest\*1 projectors  
Half the size of a magazine and weighing only 1.0kg



High brightness:1000 ANSI lumens  
Best-in-class\*2 contrast ratio of 2000:1  
True XGA  
V-1100 Digital Projector

\*1: Among XGA-capable projectors. (Study by PLUS Vision Corp., November 2002)  
\*2: Among sub-3.0 kg projectors in Japan. Applicable only to V-1100. (Study by PLUS Vision Corp., November 2002)