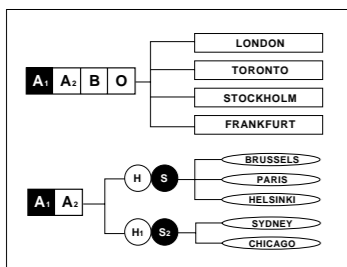
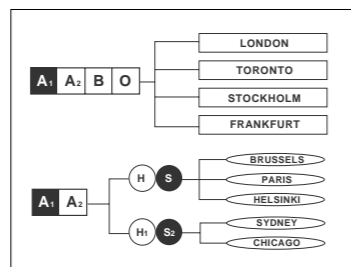


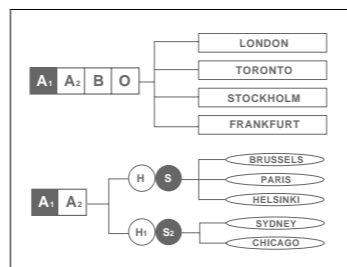
Which Image Quality Would You Want?



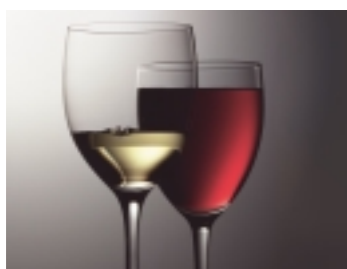
A: Image delivered by a projector with a 1500:1 contrast ratio



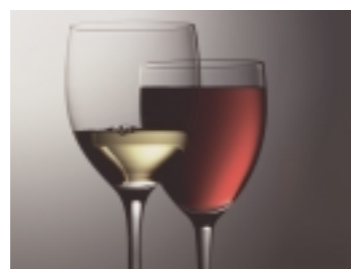
B: Image delivered by a projector with the same brightness, but a 15% lower contrast ratio



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



A: Image delivered by a projector with a 1500:1 contrast ratio



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



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



A: Image delivered by a projector with a 1500:1 contrast ratio



B: Image delivered by a projector with the same brightness, but a 15% 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 U4 Series offers superior contrast performance enabled by the DLP™ projection system. These PLUS projectors deliver incredibly high contrast ratio of 1500:1 and thus crisp, sharp image quality.

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.

Higher contrast ratio projector



Lower contrast ratio projector



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

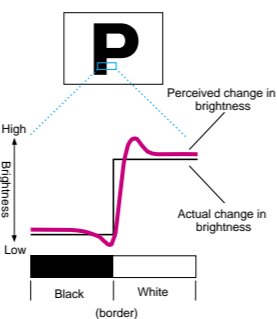
Crisp, Sharp Image Quality: Reason 2

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.



Higher contrast ratio projector

Lower contrast ratio projector

* All the photos are conceptual renderings.
* DLP and the DLP medalion are trademarks of Texas Instruments.
* DMD, developed by Texas Instruments, is an ultraprecision electronic component alternative to LCD.



The Advent of a New Generation

A New Standard for Mobile Projectors

©Lightweight 1.5-kg business mobile projectors

©Best-in-class** brightness: 1500 ANSI lumens (U4-136, U4-131) ©A high contrast ratio of 1500:1
U4 Series Digital Projectors

Zoom Models

U4-136
1500 ANSI lumens

CF card slot

U4-112
1300 ANSI lumens

True XGA

Short-Focus Model

U4-131
1500 ANSI lumens

True XGA

U4-111
1300 ANSI lumens

True SVGA

*1 Study by Fuji Chimera Research Institute, Inc., 2001.
*2 Among sub-1.5 kg projectors in Japan. Applicable only to the U4-136 and U4-131. (Study by PLUS Vision Corp., January 2003)

The most powerful business mobile projectors ever, which will vastly broaden your arena of presentation.

Compact, lightweight and bright, and delivering superior image quality, they have everything you want in a business mobile projector. The projectors can be taken anywhere, anytime, to make presentations with excellent image quality in any setting. PLUS's U4 Series represents a new standard for business mobile projectors.



PLUS Sets a New Benchmark for Business Mobile Projectors.

Slim and lightweight at only 1.5 kg, the U4 Series delivers radiant brightness of 1500 ANSI lumens.

For the creation of the U4 Series, PLUS has drawn on its engineering savvy and experience acquired through its longtime development of mobile projectors. Featuring a new generation DMD chip developed by Texas Instruments, a further improved color wheel and light engine, a newly designed lamp, and more, these projectors deliver best-in-class* brightness of 1500 ANSI lumens in a compact package weighing a mere 1.5 kg. They allow you to project a clear image even amidst bright ambient light, regardless of room size. * Among sub-1.5 kg projectors in Japan. Applicable only to the U4-136 and U4-131. (Study by PLUS Vision Corp., January 2003)

Astounding 1500:1 contrast ratio produces picture quality that exceeds the actual lumen value.

Contrast between the lightest and darkest portions of an image determines its overall visibility. The U4 Series's upgraded contrast ratio of 1500:1 delivers the blackest black and the whitest white. This provides clearer images of text and fine drawings than other projectors with the same brightness and a lower contrast ratio. It also allows fine gradations of expression with photographs and other images. See the back page for details.

PLUS Takes the Superior Picture Quality Enabled by DLP™ Technology Even Higher.

PLUS's engineering expertise unleashes the full potential of a DLP™ projection system.

At the core of DLP™ technology is a 100% digitally controlled device called a Digital Micromirror Device (DMD), which was developed by Texas Instruments. DMDs offer a variety of advantages, such as low light loss and a high contrast ratio. PLUS maximizes these inherent advantages of DLP™ technology through its optical expertise built on its years of experience as a pioneer in DLP™ projectors.

Excellent color uniformity and zero convergence problems ensure effective presentations.

The LCD system generates images by first breaking light into the three additive primary colors (RGB) and then recombining them into one, and thus invites color non-uniformity and convergence problems, such as colored fringes around objects. In contrast, the one-chip DLP™ projection system used in PLUS projectors reproduces images through RGB sequential illumination with a color wheel. This allows superb color uniformity, even against solid-color backgrounds, and perfect color alignment for clear images of small-font text and colorful charts.

Seamless high-definition imaging means no visible pixelations.

The DMD system, the key element in DLP™ technology, controls images with the backside of each micromirror, which corresponds to one pixel. This allows the grid between each micromirror to be less than one micron. In contrast, LCD projectors control images using the grids between pixels, which makes it difficult to narrow the grids for a smooth image. DLP™ projectors can deliver seamless, smooth, and accurate images.



U4 Series Specifications

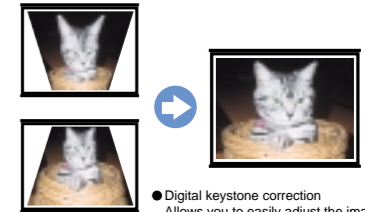
	NEW U4-136 (CF card slot)	NEW U4-112	U4-131	U4-111
Projection System	DLP™			
Panel	DMD XGA x 1	DMD SVGA x 1	DMD XGA x 1	DMD SVGA x 1
Resolution	1024 pixels x 768 pixels	800 pixels x 600 pixels	1024 pixels x 768 pixels	800 pixels x 600 pixels
Brightness	Normal mode: 1500 ANSI lumens	Normal mode: 1300 ANSI lumens	Normal mode: 1500 ANSI lumens	Normal mode: 1300 ANSI lumens
Contrast Ratio	(Eco-mode: approximately 20% less brightness)			
Aspect Ratio	1500:1 (Full on/off)			
Projection Lens	F 2.6-2.9, f= 27.5-33 mm		F 2.4, f= 23 mm	
Light Resource	150-watt High Performance Compact Lamp			
Color Palette	16.7 million colors			
Projecting Position	Front/Rear, Table/Ceiling			
Projection Distance	1.2-7.9 m	1.2-10.2 m	1.2-6.6 m	1.2-8.5 m
Image Size	26"-200" diagonal	20"-200" diagonal	36"-200" diagonal	28"-200" diagonal
RGB Signal (Input)	SXGA (Compression), XGA (True), SVGA/VGA (Expansion/True)	XGA (Compression), SVGA (True), VGA (Expansion/True)	SXGA (Compression), XGA (True), SVGA/VGA (Expansion/True)	XGA (Compression), SVGA (True), VGA (Expansion/True)
Video Signal	NTSC3.58, NTSC4.43, PAL, PAL_N, PAL_M, PAL60, SECAM, YCbCr (NTSC, PAL), YPbPr (480p, 1080i, 720p)			
Horizontal Synch Range	15-80 kHz			
Vertical Synch Range	50-85 Hz			
Audio	Mono 0.5-watt			
Terminals (Input)	RGB (Analog/Digital)/YPbPr: DVI-I 29 pin x 1 Composite Video: RCA x 1 S-Video: Mini DIN 4 pin x 1 Audio (RGB/Video): ø3.5 mm Stereo Mini Jack x 1 CompactFlash™ Card slot x 1		RGB (Analog/Digital)/YPbPr: DVI-I 29 pin x 1 Composite Video: RCA x 1 S-Video: Mini DIN 4 pin x 1 Audio (RGB/Video): ø3.5 mm Stereo Mini Jack x 1	
Color	Silver			
Dimensions Excluding Lens and Stand	53 mm (H) x 190 mm (W) x 239 mm (L)			
Weight	1.5 kg			
Power Supply	100-120/220-240 V AC at 50/60 Hz			
Power Consumption	200 watts (Normal mode), 180 watts (Eco-mode)			
On-Screen Display Languages	English/German/French/Italian/Spanish/Swedish/Korean/Chinese/Japanese			
Functions	Full-Auto Adjustment Digital Keystone Correction (+25/-35 degrees) Freeze Mute Presentation timer Custom logo			
Accessories	Lens Cap IR Remote Control CR2025 (3V Lithium Battery) x 1 (for remote control) Power Cable (1.8 m) x 1 DVI to mini D-sub 15 pin (2.0 m) x 1 Video Cable (2 m) x 1 S-Video Cable (2 m) x 1 ø3.5 mm mini plug for Audio Cable (2 m) x 1 ø3.5 mm stereo plug to RCA x 2 for Audio (0.15 m) x 1 CompactFlash™ Card (16 MB) PC Card Adapter Soft Carrying Case x 1 Cable Case x 1 User's Manual (CD-ROM) User's Manual (Simplified Edition)		Lens Cap (U4-112 only) IR Remote Control CR2025 (3V Lithium Battery) x 1 (for remote control) Power Cable (1.8 m) x 1 DVI to mini D-sub 15 pin (2.0 m) x 1 Video Cable (2 m) x 1 S-Video Cable (2 m) x 1 ø3.5 mm mini plug for Audio Cable (2 m) x 1 ø3.5 mm stereo plug to RCA x 2 for Audio (0.15 m) x 1 Soft Carrying Case x 1 Cable Case x 1 User's Manual (CD-ROM) User's Manual (Simplified Edition)	
Optional Accessories	Ceiling Mount Kit User-Replaceable Lamp Unit			

The U4 Series's Superior Features Help You Prepare and Give Outstanding Presentations.

*The photos are conceptual renderings.

Easy Setup

- **Choice of zoom model or short-focus model:** The new arrivals, the U4-136 and U4-112, have a manual zoom lens for placement flexibility, while the short-focus model allow large-screen presentations in small spaces, and are perfect for mobile professionals.
- **Auto-source:** Identifies and projects RGB and video input sources automatically.
- **Auto-adjustment:** Automatically tunes the RGB phase, clock frequency, and resolution to achieve the optimal image.
- **Digital keystone correction:** Allows you to correct the image from top-to-bottom. Unlike most LCD projectors, PLUS projectors are designed to project images at a comfortable viewing level, ensuring a distortion-free image.



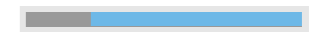
● Digital keystone correction
Allows you to easily adjust the image horizontally.

Special Features for Presentations

- **Internal CF card slot for a PC-less presentation:** By preloading presentation images into a CompactFlash card, you can run a stand-alone presentation without hooking up to a PC. (U4-136 only)
* The file formats that can be displayed directly from the CF card are: MS-DOS JPEG (excluding Progressive JPEG and some other variations), BMP and PNG. The maximum display resolution is 2048 x 1024.
* PC Card Viewer software is available for download from <http://www.plus-vision.com/en/support/download.html>. The software converts presentation files such as PowerPoint slides into playback data that can be displayed directly from the CF card. Windows® 98/98SE/Me/2000/XP compatible.
With PLUS's M Series copyboards featuring a built-in CF card slot, you can download what is written on the board page to a CompactFlash card, and project it directly from the U4-136 digital projector. Information can be shared easily with all meeting participants without printing and distributing hard copy.
- **Presentation timer:** Indicates the remaining presentation time on screen, and allows you to manage time without keeping an eye on your watch.
- **Custom logo:** Projects your own background logo, preselected in advance, as a startup screen. Impress your audience and enhance your presentation image with a custom logo.
- **Front ventilation:** Keeps the exhaust air away from audience members who sit on the side of the projector, providing a distraction-free viewing environment.
- **Full-function remote-control card:** Ultra-portable card-type remote control is supplied as a standard feature.
- **Whisper quiet operation:** Noise level is reduced immensely through the innovative location of the fan.
- **Built-in sliding lens cap (U4-131, U4-111):** Protects the projector lens. No need to worry about damaging it during transportation of the projector. *Removable lens cap for U4-136 and U4-112.
- **Eco-mode:** Extends the lamp life by reducing the brightness to about 80% of the normal mode.



● CF card slot



● Presentation timer
Lets you set the presentation time from 10 to 60 minutes in 10-minute intervals. The blue gauge indicates the remaining time.



● Custom logo projection



● Rear panel

Advanced Digital Input Interface

- **Built-in DVI terminal:** The Digital Visual Interface (DVI) terminal enables full digital transmission, maximizing the advantages offered by the DLP™ technology which incorporates the all-digital DMD device. The digital-to-digital connection eliminates the conversion to analog and thereby renders finer images.
- **Compatible with 720p/1080i HDTV signals:** The U4 Series supports high-definition broadcasts and is compatible with a 16:9 aspect ratio.



DLP™ Technology: State-of-the-Art Projection Technology for Today's Mobile Age

PLUS was the first Japanese company to commit to the development of DLP™ projectors using the single-chip DMD method. Since entering the market in 1998, PLUS has released several compact, high-brightness, high-quality models, contributing to the creation of a new image of projectors as "mobile tools". In Japan, PLUS holds the No. 1* market share in the sub-3 kg category, and commands a 64%*2 share of the DLP™ projector market.

*1 Sales results from April 2001 to March 2002. (Study by Fuji Chimera Research Institute, Inc., 2001) *2 Sales results from April 2001 to March 2002. (Study by Fuji Chimera Research Institute, Inc., 2001)



Iruma Factory of PLUS Vision Corp. has ISO 9001 certification.
Certificate No. 1210017398 TMS



Iruma Office/Iruma Factory of PLUS Vision Corp. has ISO 14001 certification.
Certificate No. NQE-0210118A



The PLUS Group

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Specifications are subject to change without notice.

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