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PT-AE3000U
Full High-Definition Home Cinema Projector

Expanding the Full-HD Experience

FULL HD
HOLLYWOOD TUNING
Details with Amazing Reality and Clarity

The new PT-AE3000U maximizes the image quality of the full-HD content in Blu-ray Discs and HD broadcasts for large-screen viewing, and adds a newly designed optical system that achieves a 60,000:1 contrast ratio and 1,600 lumens of brightness. A variety of advanced signal-processing technologies, beginning with Detail Clarity Processor 2 and Frame Creation interpolation, push the performance level of the LCD projector to an entirely new level of picture quality, and provide viewers with the true beauty of full-HD images. Experience on-screen reality, complete with crisp, detailed images and lifelike depth, in the new PT-AE3000U. Its exceptional performance is further boosted by Panasonic’s collaboration with leading Hollywood filmmakers to ensure that it produces images that mirror the director’s artistic vision and intent.
A High-Precision, Top-Quality Lens Maximizes Full-HD Performance
To assure maximum clarity and sharpness in full-HD images, this advanced system employs a full-HD-optimized lens unit comprising 16 lens elements in 12 groups, including two large-diameter aspherical lenses and two high-performance ED (extra-low dispersion) lenses. Each lens is carefully aligned to assure a uniform focusing balance from the center to the edges of the screen. As a result, the PT-AE3000U’s stunningly beautiful images are clear and free of distortion and color bleeding.

New Pure Contrast Plates Deliver High 60,000:1 Contrast Ratio
The Pure Contrast Plates of the PT-AE3000U use a crystalline material that is carefully matched to the characteristics of the LCD panels to effectively block unwanted light leakage, forming an advanced type of optical compensator. This dramatically increases the dynamic range and, together with the dynamic iris, provides an outstanding contrast ratio of 60,000:1. The new optical system of the PT-AE3000U also produces a stunning brightness of 1,600 lumens to unleash the beauty of full-HD expression for viewing on various screen sizes.

Smooth Screen Technology Creates Film-Like Texture
While many LCD projectors suffer from a "chicken wire" effect, Panasonic’s pursuit of the highest possible image quality has successfully overcome this device limitation through the incorporation of Smooth Screen technology, which uses the double refraction property of crystals to arrange pixels on a screen with no gaps between them. Smooth Screen technology is designed specifically to match the characteristics of the PT-AE3000U’s optical system, giving you the kind of smooth, vivid, and three-dimensional-like images you see in a movie theater.

Dynamic Iris Adds Beauty to Both Dark and Bright Scenes
The fifth generation intelligent iris system works by analyzing histograms to determine the brightness level of each image, then adjusting the lamp power, iris, and gamma curve accordingly to create the ideal image. The adjustments are made virtually frame by frame. This helps the projector achieve a wide dynamic range with swift smoothness for added beauty in both dark and bright scenes.

Pure Color Filter Pro for Rich Colors
The optical filter optimizes the light spectrum from the UHM projector lamp, helping to produce deeper blacks while improving purity levels in the three primary colors (red, green, and blue). This advanced filter system improves color purity to cover a range that extends from the HDTV standard (Color 1 mode) *1 to the color gamut used in digital cinema*2. This gives images the deep, rich coloring that distinguishes movie images.
Detail Clarity Processor 2 Brings Depth and Clarity to Details

A newly evolved digital image processing circuit, called the Detail Clarity Processor 2, debuts in the PT-AE3000U. After analyzing the frequency of the video signal in each scene and extracting information on the distribution of the super-high-, high-, medium-, and low-frequency image components, the new circuit optimizes the sharpness of each image portion based on the extracted information. This brings greater clarity and sharpness to details, by reproducing fine nuances that were lost due to image compression. The resulting images have a more natural, lifelike expression than those of previous image-processing methods. The detection of super-high-frequency image components also enables more faithful reproduction of highly detailed information, such as the film grain in movies.

16-Bit Digital Processing for Natural Gradations

The PT-AE3000U handles up to 16-bit (full 12-bit) digital image processing. It faithfully reproduces even subtle hues and brightness variations.

Crisp, Clear Details in Motion Images

A double-speed display (120 Hz or 100 Hz) greatly improves the clarity of motion image display. Frame Creation interpolates one new frame for each existing frame by analyzing the characteristics of the two adjacent frames to reproduce sharp and clear images for fast moving scenes in sports and action movies. For 24p signal input, three frames are calculated and interpolated for each existing frame, to enable 4x speed (96-Hz) display.*4

Waveform Monitor for Precise Calibration

When the output level of the source device fluctuates due to the performance of the device or its cable connections, the original black and white levels of the image content cannot be reproduced. With the PT-AE3000U you can view the waveforms on the screen and adjust the settings both automatically and manually as you prefer.

Split Adjust Mode for Easy Picture Adjustment

You can freeze any scene you wish, and then make adjustments while easily comparing the original image and the adjusted image side-by-side.

Cinema Color Management (CCM) Enables Flexible Color Control

This is an innovative color correction system that enables free color control. You can adjust one color without affecting the neighboring colors, so it is easier to get just the right color equalization in hue, luminance and saturation.
The Lens Memory and setting flexibility ensure that you will always enjoy comfortable large-screen viewing matched to your theater room. An ecology-conscious design is another trait that lifts the PT-AE3000U to an even higher level of quality.

**Lens Memory Enhances Projection Versatility**
The zoom and focus settings for projecting in the normal 16:9 or 4:3 image ratio, and for wide cinema projection, can be stored in the Lens Memory for simple access through the remote control. This Lens Memory function lets you easily enjoy images with different image ratios on a wide 2.35:1 screen for an immersive movie theater-like experience.

**2x Optical Power Zoom/Focus and Wide Lens Shift Range**
A 2x optical power zoom/focus lens and a lens shift function together make it possible to project a 120-inch picture from as close as 11’10” (3.6 m) to the screen or as far as 23’7” (7.2 m) away. In addition, the image can be shifted ±100% vertically, and ±40% horizontally. This gives you outstanding setup flexibility. If you choose to ceiling-mount the projector, you can zoom and focus by remote control.

**Versatile Input Interfaces**
The PT-AE3000U has three HDMI input terminals for digital transmission without image degradation, and two component input terminals. The HDMI input terminals also support Deep Color and the x.v.Color™ color space of the HDMI 1.3 standard. Deep Color provides 10-bit (over 1.07 billion) and 12-bit (over 68.7 billion) color depths for smooth gradation between colors, while x.v.Color™ compliance reproduces natural, lifelike images.*5

**Easy Maintenance**
For easy maintenance, you can replace the filter from the side and the lamp from the top of the projector. The dust filter and lamp are easily replaced even after the PT-AE3000U is installed on the ceiling.

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* Effective in Color 1 image mode.
*+ Up to 220 V.
* For 1080p full high definition home cinema projector, as of August 20, 2008.
Other Features

- Seven picture mode includes Cinema 1/2/3, Normal, Dynamic, Color 1/2.
- 3D noise reduction for high-precision noise detection and reduction.
- Scene-adaptive MPEG noise reduction effectively blocks regular noise and minimizes mosquito noise.
- Scene adaptive resizing LSI improves quality when resizing 480p images or those from other sources with resolution lower than the PT-AE300U’s native resolution.
- 24p compatible
- Progressive cinema scan (3/2 pulldown) and HD IP
- Selectable frame response
- Featuring a wide range of aspect modes, including ones for anamorphic lenses.
- YPBPR signal compatibility
- Contrast
- Brightness
- Power consumption
- Power supply
- Lamp
- Keystone correction range
- Lamp
- Brightness
- Drive method
- Aspect ratio
- Panel size
- Image size/projection distance
- Other Features
- Auto input search
- Quiet operation: 22 dB (in Economy lamp mode)
- Normal/economy lamp power selection
- Lens-centered design

Specifications

- Power supply: 100–240 V AC, 50/60 Hz
- Power consumption: 240 W (Approx. 0.08 W in standby mode with fan stopped)
- LCD panel:
  - Panel size: 0.74˝(17.78 mm) diagonally
  - Aspect ratio: 16:9 aspect ratio
  - Drive method: Transparent LCD panel
  - Method: Active matrix
  - Lens: Powered zoom (2x)/powered focus, F 1.9 – 3.2, f 22.4 mm–44.8 mm
- YPbPr signal compatibility: 480i (525i), 480p (525p), 576i (625i), 576p (625p), 720 (750)/50p, 720 (750)/60p, 1,080 (1,125)/24p, 1,080 (1,125)/50i, 1,080 (1,125)/50p, 1,080 (1,125)/60i, 1,080 (1,125)/60p
- Color system: PAL, PAL-M, PAL-N, PAL 60, SECAM, NTSC, NTSC 4.43
- Optical axis shift:
  - Horizontal: 40% and vertical: ±100%
- Keystone correction range: Vertical: approx. ±3°
- Terminals:
  - HDMI IN: HDMI connector x 3, HDMI™(V.1.3 with Deep Color, x.xColor™+), HDCP compliant
  - COMPUTER IN: D-sub HD 15-pin (female) x 1
  - COMPONENT IN: RCA pin (Y, PB/CB, PR/CR) x 2
  - S-VIDEO IN: Mini DIN 4-pin x 1
  - VIDEO IN: RCA pin x 1
  - SERIAL: D-sub 9-pin x 1 (RS-232C based)
- Dimensions (W x H x D):
  - Projection size (2.35:1) Projection distance (L):
    - PT-AE3000U: 3.81 m (Min) / 5.99 m (Max)
    - ET-PKE2000: 3.05 m (Min) / 4.38 m (Max)
    - ET-PKE1000S: 2.54 m (Min) / 3.66 m (Max)
    - ET-LAE1000: 2.03 m (Min) / 2.90 m (Max)
  - Projection size (16:9) Projection distance (L):
    - PT-AE3000U: 3.81 m (Min) / 5.99 m (Max)
    - ET-PKE2000: 3.05 m (Min) / 4.38 m (Max)
    - ET-PKE1000S: 2.54 m (Min) / 3.66 m (Max)
    - ET-LAE1000: 2.03 m (Min) / 2.90 m (Max)
- Weight:
  - Approx. 17.8 kg (39 lbs.)
  - Approx. 16.1 lbs.
- Operating environment:
  - Temperature: 0°–40°C (32°–104°F)
  - Humidity: 20%–80% (no condensation)
- Supplied accessories:
  - Power cord, Wireless remote control unit, Batteries for remote control [AA type x 2]
- Optional accessories:
  - ET-LAE1000: Replacement lamp unit
  - ET-PKE2000: Ceiling mount bracket for high ceilings
  - ET-PKE1000S: Ceiling mount bracket for low ceilings
  - ET-PCE2000: Cable cover

For detailed explanation of features please visit our Projector Global Web Site
http://panasonic.net/avc/projector

Panasonic Projector Systems Company
www.panasonic.com/projects

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Made in Japan

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Please contact Panasonic or your dealer for a demonstration.

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