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PT-LZ370
LCD Projector

Remarkably Detailed and Truly Natural Full-HD Images
Outstanding Images with Stunning Full-HD Quality

High-Contrast, High-Quality Images from a Full-HD LCD Panel and Dynamic Iris Pro
The Full-HD (1920 x 1080-pixel) LCD panel of the PT-LZ370 produces the meticulous detail of Full-HD images. With its “normally black” system, the liquid crystal molecules are vertically aligned when no power is applied, to dramatically reduce unwanted light. The Dynamic Iris Pro also adjusts the brightness of the light source to match the image. The brightness of each scene is analyzed and the lamp power, gamma curve, and iris are adjusted accordingly frame by frame. This achieves a high contrast ratio of 10,000:1, providing a wide dynamic range for added beauty in both dark and bright scenes.

3,000-lm Brightness
The PT-LZ370 features a high-power 280 W UHM lamp. Optimal utilization of this light source achieves a full 3,000 lumens of brightness, for sharp, crisp images.

Detail Clarity Processor 3 Gives Natural Clarity to Even the Finest Details
After a two dimensional analysis of the video signal’s frequency 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. The resulting images have a more natural, lifelike expression than those of previous image-processing methods.

Daylight View Premium for Better Color Perception
This function corrects the image quality to project sharp, clear images even in brightly lit rooms. A luminance sensor measures the ambient brightness, and a real-time adjustment function optimizes sharpness and brightness according to the surroundings. This adjustment function also works together with the Detail Clarity Processor 3 to enhance the realism and vividness of projected images. This makes images easier to view and offers high contrast.

All the Beauty of Full HD. Ideal for Lectures and Presentations Requiring Detailed Images.
In addition to its Full-HD LCD panel, the PT-LZ370 generously employs unique Panasonic technologies in its optical and signal-processing systems to produce captivating images. It is the ideal projector for presentations with highly detailed images, and projecting Blu-Ray disc and increasingly popular HD contents. Offering a variety of functions, such as 2x zoom and a wide lens shift, for permanent installation use, the PT-LZ370 is ready for a host of applications, starting with classrooms and meeting rooms, and extending to uses that demand high color fidelity and fine detail reproduction, such as engineering, R&D, art history, and film classes/meetings.
Ecology-conscious Design
Panasonic works from every angle to minimize environmental impact in the product design, production and delivery processes, and in the performance of the product during its life cycle. The PT-LZ370 projector reflects the following ecological considerations.

• No halogenated flame retardants are used in the cabinet.
• Non-coated cabinet for easy recycling.
• Lead-free glass is used for the lens.
• Lamp power switching further reduces power consumption.
• Standby power consumption of only 0.08 W.)*6
• “ECO” button on the remote control.
• An Auto Off Timer switches the projector to Standby mode when no input signal is received for a preset time.

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-LZ370, you can view the waveforms on the screen and adjust the settings either automatically or manually as you prefer.

DICOM Simulation Mode*1
This imaging mode is similar to DICOM Part 14, which is a medical imaging standard. It reproduces X-ray images with remarkable clarity. It also allows information to be shared by many viewers on a large screen, such as during medical conferences or training courses.

12-bit Digital Signal Processing Achieves Smooth, Natural Gradation
The PT-LZ370 handles 12-bit digital image processing. It faithfully reproduces even subtle hues and brightness variations. The resulting smooth gradation renders natural images with finely detailed nuances.

Installation and Operation Flexibility

2x Zoom Lens and Wide Horizontal/Vertical Lens Shift
The 2x zoom lens and horizontal/vertical lens shift let you accommodate a wide range of room sizes and shapes. When lights or ventilation holes are located in the ceiling mounting site, you can simply relocate the projector to avoid them. And when replacing existing projectors, this can reduce costs by permitting the use of existing mounting positions and cabling.

Abundant Connection Terminals, Including HDMI
Interfaces include two sets of HDMI input. The serial terminal (RS-232C) has an Emulate function that lets you continue using existing control systems when replacing previous Panasonic models. It is also possible to output audio during Standby mode.*3 This is convenient when connecting an external audio system through the projector.*3

Easy Remote Monitoring and Control over a LAN
A web browser on a computer connected through a wired LAN system lets you remotely operate projectors and check their status. An e-mail messaging function can also notify you when a lamp needs replacement, and indicate the overall projector status. In addition, Multi Projector Monitoring and Control Software is available for monitoring and controlling multiple Panasonic projectors from a single PC. The wired LAN terminal is compatible with PJLink™ (class 1), an open protocol that is used by many manufacturers, to enable integrated control of systems that contain different brands of projectors.

Eco Management Functions
A number of functions are provided to reduce power consumption. They adjust the brightness according to ambient light conditions, and reduce the lamp power when there is no signal input or the projector is in AV Mute mode. You can easily set the Eco Management functions according to operating conditions by using the ECO button on the remote control.

Up to 3,000-Hour Lamp/Filter Replacement Cycle*4 and Simple Maintenance
The lamp and air filter both have replacement cycles of up to 3,000 hours. This reduces the amount of bothersome maintenance necessary over a long period of time, cuts maintenance costs, and helps to lower the environmental impact. For easy maintenance, you can replace the filter from the side and the lamp from the top of the projector. The filter and lamp are easily replaced even after the PT-LZ370 is installed on the ceiling.

Crestron RoomView™
The LAN terminal allows a computer connected to the network to use Crestron RoomView™ application software to manage and control system devices.

Superc Performance

*1 This product is not a medical instrument. Do not use it for actual medical diagnosis.
*2 Requires menu selection.
*3 Audio monitoring requires external speakers and an audio amplifier.
*4 The usage environment affects the lamp replacement cycle.
*5 The usage environment affects the duration of the filter.
*6 When the STANDBY MODE is set to ECO, network functions such as power on over the LAN will not operate. Also, only certain commands can be received for external control using the serial terminal.
Specifications

- Power supply: 100–240 V AC, 50/60 Hz
- Power consumption: 350 W (0.8 W when STANDBY MODE is set to ECO)**7 with STANDBY MODE is set to NORMAL. 10 W when STANDBY MODE is set to NORMAL and AUDIO MONITOR OUT.)

- LCD panel:
  - Panel size: 18.7 mm (0.74 in) diagonal (16:9 aspect ratio)
  - Display method: Transparent LCD (white, 3: R/G/B)
  - Drive method: Active matrix
  - Pixels: 2,073,600 (1,920 x 1,080) x 3, total of 6,220,800 pixels

- Lamp:
  - Type: 280 W (800 lm)
  - Manual zoom (1-2.4:1), manual focus lenses, F 2.0–4.5, 1.4×–4.3× mm

- Projector size:
  - 1.02–7.62 m (40–30 in)

- Throw distance:
  - 1.11–1.1745 m (4 ft 8 in to 5 ft 7 in)

- Colors:
  - Full color (1,073,747 colors)

- Brightness:
  - 3,000 lm (NORMAL, 10 W when STANDBY MODE is set to NORMAL and AUDIO MONITOR OUT.)

- Lamp life:
  - 2,000 hours (NORMAL, 1,000 hours (ECO)

- Image size:
  - 120 in (8.7 m), 150 in (11.5 m), 200 in (15.2 m)

- Resolution:
  - 1,920 x 1,080 pixels (signals that exceed this resolution will be converted to 1,920 x 1,080 pixels)

- Scanning frequency:
  - 3,813,500 (720)/60p: f H 45.0 kHz; f V 60.0 Hz, 750 (720)/50p: f H 37.5 kHz; f V 50.0 Hz, 1125 (1080)/60i: f H 33.75 kHz; f V 60.0 Hz, 1125 (1080)/50p: f H 28.13 kHz; f V 50.0 Hz, 1125 (1080)/24p: f H 27.0 kHz; f V 54.0 Hz, 1125 (1080)/60p: f H 57.6 kHz; f V 54.0 Hz, 1125 (1080)/50p: f H 44.1 kHz; f V 50.0 Hz, 1125 (1080)/48p: f H 45.6 kHz; f V 48.0 Hz

- Projection distance (16:9 aspect ratio):
  - Projection size [diagonal]: 0.6 m (23.6 in), 1.0 m (39.4 in), 1.5 m (59.1 in)
  - Projection distance [L]: 0.9 m (35.4 in), 1.5 m (59.1 in), 2.0 m (78.7 in)
  - Height from the edge of screen to center of lens [M]: 0.3 m (11.8 in), 0.5 m (19.7 in), 0.7 m (27.6 in)

- Optional accessories:
  - ET-PKA110N Ceiling mount bracket for high clearance
  - ET-PKA110S Ceiling mount bracket for low clearance
  - ET-LAA110 Replacement lamp unit

- NOTES ON USE:
  1. Do not install the projector in locations that are subject to excessive water, humidity, steam, or oily smoke. Doing so may result in fire, malfunction, or electric shock.
  2. The projector uses a high-voltage mercury lamp that contains high internal pressure. This lamp may break, emitting a large sound, or fail to illuminate, due to impact or extended use.
  3. The projector uses a high-wattage lamp that becomes very hot during operation. Please observe the following precautions:
     - Never place objects on top of the projector while it is operating.
     - Make sure there is an unobstructed space of 100 mm (3-15/16 in) or more around the projector’s air intake openings.
     - Do not stack projector units directly on top of one another for the purpose of multiple (stacked) projection. When stacking projector units, be sure to provide the amount of space indicated below between them. These space requirements also apply to installations where only one projector unit is operating at one time and the other unit is used as a backup.
     - If the projector is installed in an enclosed space, ensure that the projector’s intake and exhaust openings are not blocked. Take particular care to ensure that hot air from the exhaust openings is not sucked into the intake openings.
     - If the projector is to be operated continuously 12 hours or more, lamp replacement cycle duration becomes shorter.
     - The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods (one hour or less).

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export control regulations. The projection distances and throw ratios given in this brochure are for use only as guidelines. For more detailed information, please consult the dealer from whom you are purchasing the product. Also, the throw ratios shown are the values for an 80-inch image size (measured diagonally). The P-LINK trademark is an application trademark in Japan, the United States, and other countries or regions registered trademarks. RoomView, RoomView Monitor, and RoomView Connected are trademarks of Crestron Electronics, Inc. All other trademarks are the property of their respective trademark owners. Projection images simulated.

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For more information about Panasonic projectors

http://panasonic.net/avc/projector

The PT-LZ370 is carefully manufactured at the Panasonic Factory in Japan, under strict quality control. This is another, very important advantage of a Panasonic projector.

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Factories of Business Solutions Business Unit have been ISO 14001:2004—the Environmental Management System certification except for third parties [partners].

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