Panasonic
ideas for life

PT-LZ370

LCD Projector

Remarkably Detailed and Truly Natural Full-HD Images

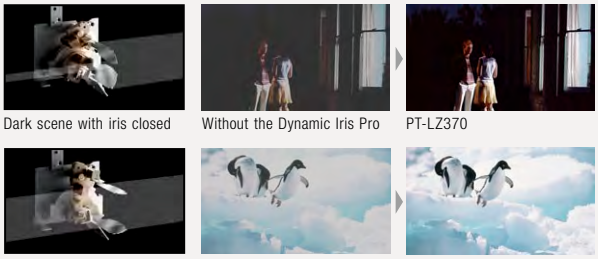
All the Beauty of Full HD. Ideal for Lectures and Presentations Requiring Detailed Images.

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.

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.



Dark scene with iris closed | Without the Dynamic Iris Pro | PT-LZ370

Bright scene with iris opened | Without the Dynamic Iris Pro | PT-LZ370

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

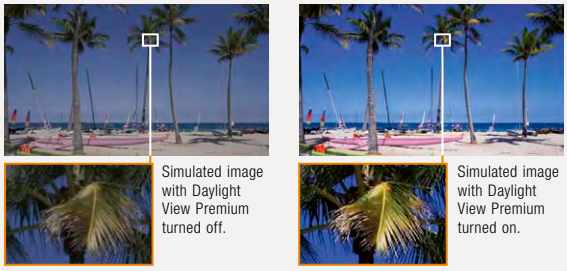
After a two dimensional analysis of the video signal's frequency in each scene and extracting information on the distribution of the super-high-, high-, medium-, and low-frequency image components, the new circuit optimizes the sharpness of each image portion based on the extracted information. The resulting images have a more natural, lifelike expression than those of previous image-processing methods.

Conventional sharpness control: Sharpness is applied uniformly, which can cause a halo or ring effect.

Detail Clarity Processor 3: Signal frequency is extracted realtime and necessary sharpness is applied at varying degrees for natural, life-like images.

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.



Simulated image with Daylight View Premium turned off.

Simulated image with Daylight View Premium turned on.

Full HD

3,000 lm

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.

Full 12-bit Digital Signal Processing Achieves Smooth, Natural Gradation

The PT-LZ370 handles full 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 cablings.

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.*2 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.

Crestron RoomView™

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

Superb Basic Performance

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*5 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.

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 solder is used to mount components to the printed circuit boards.
- 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.

*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.

Other Valuable Features

- Scheduling function
- Direct power off
- 15 m (49 ft) long-range wireless remote control
- Quiet, 29 dB*7 operation

- Security features: user password, text superimposing and startup logo*8 (default or original)
- Whiteboard and blackboard modes
- AV mute for image/sound muting
- Selectable 17-language onscreen menu
- Built-in closed caption decoder

made in Japan

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.

Specifications

Power supply	100–240 V AC, 50/60 Hz
Power consumption	350 W (0.08 W with STANDBY MODE set to ECO;*9 7 W with STANDBY MODE set to NORMAL, 10 W when STANDBY MODE set to NORMAL and AUDIO MONITOR OUT.)
LCD*10 panel	
Panel size	18.7 mm (0.74 in) diagonal (16:9 aspect ratio)
Display method	Transparent LCD panel (× 3, R/G/B)
Drive method	Active matrix
Pixels	2,073,600 (1,920 × 1,080) × 3, total of 6,220,800 pixels
Lamp*11	280 W UHM lamp
Lens	Manual zoom (1–2×), manual focus lenses, F 2.0–3.4, f 21.5–43.0 mm
Projection size	1.02–7.62 m (40–300 in)
Throw distance	1.11–17.45 m (3 ft 8 in to 57 ft 3 in)
Colors	Full color (1,073,741,824 colors)
Brightness*12	3,000 lm
Center-to-corner uniformity ratio*12	85 %
Contrast ratio*12	10,000:1 (all white/all black, with Dynamic Iris Pro on)
Resolution	1,920 × 1,080 pixels (Input signals that exceed this resolution will be converted to 1,920 × 1,080 pixels.)
Scanning frequency	
HDMI	525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/60p, 1125 (1080)/50p, 1125 (1080)/24p Dot clock: 25.2–162.0 MHz, displayable resolution: VGA–UXGA (non-interlace)
RGB	fH: 15.6–91.1 kHz, fV: 24.0–85.1 Hz, dot clock: 162.0 MHz or lower
YPBPR (YCBCR)	525i (480i): fH 15.75 kHz; fV 60.0 Hz, 625i (576i): fH 15.63 kHz; fV 50.0 Hz, 525p (480p): fH 31.5 kHz; fV 60.0 Hz, 625p (576p): fH 31.25 kHz; fV 50.0 Hz, 750 (720)/60p: fH 45.0 kHz; fV 60.0 Hz, 750 (720)/50p: fH 37.5 kHz; fV 50.0 Hz, 1125 (1080)/60i: fH 33.75 kHz; fV 60.0 Hz, 1125 (1080)/50i: fH 28.13 kHz; fV 50.0 Hz, 1125 (1080)/24p: fH 27.0 kHz; fV 24.0 Hz, 1125 (1080)/60p: fH 67.5 kHz; fV 60.0 Hz, 1125 (1080)/50p: fH 56.25 kHz; fV 50.0 Hz NOTE: Not compatible with 3-value composite SYNC
Video/S-Video	fH: 15.75 kHz, fV: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60] fH: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/SECAM]
Optical axis shift*13	Vertical: ±65 %, horizontal: ±26 %
Keystone correction range	Vertical: approx. ±30°
Installation	Ceiling/desk, front/rear (menu selection)
On-screen menu languages	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Swedish, Danish, Norwegian, Polish, Czech, Hungarian, Portuguese, Thai, Japanese
Terminals	
HDMI IN	HDMI 19-pin × 2, Deep Color, compatible with HDCP
COMPUTER (RGB) IN	D-sub HD 15-pin (female) × 1
COMPONENT IN	RCA pin (Y, PB/CB, PR/CR) × 3
VIDEO IN	RCA pin × 1, 1.0 Vp-p, 75 ohms
S-VIDEO IN	Mini DIN 4-pin × 1
AUDIO IN	M3 (L, R) × 1
AUDIO OUT	M3 (L, R) × 1 (monitor out: 0–2.0 Vrms, variable)
SERIAL IN	D-sub 9-pin × 1 for external control (RS-232C compliant)
LAN	RJ-45 × 1, for network connection, 100Base-TX/10Base-T, compliant with PJLink™
Power cord length	2.0 m (6 ft 7 in)
Cabinet materials	Molded plastic (PC+ABS)
Dimensions (W × H × D)	470 mm × 151 mm*14 × 380 mm (18-17/32 in × 5-15/16 in*14 × 14-31/32 in)
Weight*15	Approx. 8.6 kg (19.0 lbs)
Operation noise*12	35 dB (LAMP POWER: NORMAL), 29 dB (LAMP POWER: ECO)
Operating temperature	0–40 °C*16 (32–104 °F*16)
Operating humidity	20–80 % (no condensation)
Supplied accessories	Power cord (× 1) (× 2 for PT-LZ370EA), Wireless remote control unit (× 1), Batteries for remote control (AA/R6 type × 2), Software CD-ROM (Logo Transfer Software, Multi Projector Monitoring and Control Software) (× 1)

Projection distance

(16:9 aspect ratio)

unit: meters (feet)

Projection size [diagonal]	Projection distance [L] Min [wide]	Projection distance [L] Max [telephoto]	Height from the edge of screen to center of lens [H]
1.02 m / 40 in	1.1 (3.7)	2.3 (7.5)	-0.08 – 0.58 (-0.26 – 1.90)
1.27 m / 50 in	1.4 (4.6)	2.9 (9.4)	-0.09 – 0.71 (-0.30 – 2.33)
1.52 m / 60 in	1.7 (5.6)	3.5 (11.3)	-0.11 – 0.86 (-0.36 – 2.82)
1.78 m / 70 in	2.0 (6.5)	4.0 (13.3)	-0.13 – 1.00 (-0.43 – 3.28)
2.03 m / 80 in	2.3 (7.5)	4.6 (15.2)	-0.15 – 1.15 (-0.49 – 3.77)
2.29 m / 90 in	2.6 (8.4)	5.2 (17.1)	-0.17 – 1.29 (-0.56 – 4.23)
2.54 m / 100 in	2.9 (9.4)	5.8 (19.0)	-0.19 – 1.44 (-0.62 – 4.72)
3.05 m / 120 in	3.5 (11.3)	7.0 (22.8)	-0.22 – 1.71 (-0.72 – 5.61)
3.81 m / 150 in	4.3 (14.2)	8.7 (28.6)	-0.28 – 2.15 (-0.92 – 7.05)
5.08 m / 200 in	5.8 (19.0)	11.6 (38.1)	-0.37 – 2.86 (-1.21 – 9.38)
6.35 m / 250 in	7.2 (23.8)	14.5 (47.7)	-0.47 – 3.58 (-1.54 – 11.75)
7.62 m / 300 in	8.7 (28.6)	17.4 (57.2)	-0.56 – 4.30 (-1.84 – 14.11)

Optional accessories

ET-PKA110H
Ceiling mount bracket for high ceilings

ET-PKA110S
Ceiling mount bracket for low ceilings

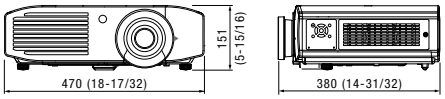
ET-LAA110
Replacement lamp unit

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.
4. If the projector is to be operated continuously 12 hours or more, lamp replacement cycle duration becomes shorter.
5. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods (one hour or less).

Dimensions

unit: mm (inches)



*7 When the lamp mode is set to ECO; 35 dB when the lamp mode is set to Normal. Measurement, measuring conditions and method of notation all comply with ISO 21118 international standards. *8 A new logo can be easily uploaded by connecting a computer to the PT-LZ370, through the LAN or serial connection by using the Logo Transfer Software which is compatible with Windows® XP, Windows Vista®, and Windows® 7. Uploadable still images are limited to 1,024 × 768 pixel bitmap files. Also, the application will reduce the number of colors to 191. *9 When the standby mode is set to eco, network functions such as power on over the LAN network will not operate. Also, only certain commands can be received for external control using the serial terminal. *10 The projector uses a type of liquid crystal panel that typically consists of millions of pixels. This panel is built with very high-precision technology to provide the finest possible image. Occasionally, a few pixels may remain turned on (bright) or turned off (dark). Please note that this is an intrinsic characteristic of the manufacturing technology that affects all products using LCD technology. *11 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. The length of time that it takes for the lamp to break or fail to illuminate varies greatly depending on individual lamp characteristics and usage conditions. *12 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *13 Shift range is limited during simultaneous horizontal and vertical shifting. *14 With legs at shortest position. *15 Average value. May differ depending on models. *16 The operating temperature range is 0°C to 35°C (32°F to 95°F) when used in High-Altitude mode (1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level).

Panasonic®

For more information about Panasonic projectors
http://panasonic.net/avc/projector

ISO 14001 JACO — UKAS MANAGEMENT SYSTEMS
EC98J2010 051

Factories of Business Solutions Business Group have received ISO 14001:2004—the Environmental Management System certification (except for third parties' peripherals).

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 PJLink trademark is an application trademark in Japan, the United States, and other countries and regions or registered trademarks. RoomView, Crestron RoomView, and Crestron Connected are trademarks of Crestron Electronics, Inc. All other trademarks are the property of their respective trademark owners. Projection images simulated.

All information included here is valid as of December 2011.

PT-LZ370G1 Printed in Japan.