

# High Brightness, Low TCO, and Flexible Installation for Versatile Use

PT-EZ770Z

3LCD - 6500 lumens - WUXGA - 1Lamp - Exchangeable lens - Digital Link -  
Powered H/V Lens Shift



## KEY FEATURES

- LCD, 6500 lumens, WUXGA
- Daylight View Basic function ensures clear and vivid image quality in bright environments
- Integrated DIGITAL LINK and Displayport connection
- Eco filter enables up to 15000 hours of air filter replacement cycle

## High Brightness and Superb Image Quality

### 1. High Brightness and Excellent Contrast

Despite its sleek and compact dimensions, the PT-EZ770 Series produces a class-leading 6,500 lm to 7,500 lm\* of brightness with a contrast ratio of 5,000:1. The iris automatically adjusts to suit ambient lighting conditions.

\* The PT-EX800Z/EX800ZL has 7,500 lm, the PT-EW730Z/EW730ZL has 7,000 lm, and the PT-EZ770Z/EZ770ZL has 6,500 lm of brightness.

## **WUXGA Resolution for Lustrous Full HD Images (PT-EZ770ZE)**

With native WUXGA 1,920 x 1,200 pixel widescreen resolution, the PT-EZ770Z/EZ770ZL is capable of displaying Full HD video from Blu-ray Disc and other sources in beautifully rich, vivid detail.

## The Daylight View Basic Function Ensures Clear Images Even in Brightly Lit Rooms

Panasonic's Daylight View Basic technology achieves sharp, easy-to-see images by clearly reproducing the details in dark image areas, which were previously difficult to see in brightly lit rooms. A built-in sensor measures the ambient light, and the Daylight View Basic function adjusts the halftone color and brightness level according to the surrounding illumination.



## Colour Adjustment Function

A color adjustment function allows you to easily correct for slight variations in the color reproduction range of individual units set up for multiple projection, particularly in side-by-side configuration. Correction is performed on 3 colors (R, G, B) or 7 colors (R, G, B, C, M, Y, W).

## DICOM Simulation Mode\*

This imaging mode is similar to DICOM part 14, which is a medical imaging standard. It reproduces X-ray images with remarkable clarity.

\* This product is not a medical instrument. Do not use it for actual medical diagnosis.



## Inorganic LCD Materials Maintain High Brightness and Image Quality Longer

The optical block of the PT-EZ770 Series projectors maintains a high level of performance over time, due to the use of inorganic materials in the LCD panels and polarizers, thus achieving a replacement cycle of 10,000 hours with high brightness and excellent picture quality. It also makes them the logical choice for a truly dependable LCD projector system.

## Flexible Installation and System Integration

### **DIGITAL LINK Transmits Digital Signals up to 100m (328ft) with a single cable.**

Equipped with a DIGITAL LINK terminal, the PT-EZ770 Series allows transmission of HDMI, uncompressed HD digital video, audio and control signals (Ethernet, RS-232C) for up to 100 meters (328 feet) through a single CAT5e (STP) cable or higher. This simplifies cabling and system upgrades, making it ideal for ceiling-mounted and other permanent installations.

**Optional ET-YFB100G Digital Interface Box for Easy Setup**

By combining the optional ET-YFB100G Digital Interface Box, with its HDMI and other input terminals, uncompressed HD digital video, audio and control signals can be transmitted up to 100 m (328 feet) over a single CAT5e (STP) cable or higher. It allows projector connection with only one cable, making it ideal for ceiling-mounted and other permanent installations.

Also, because control signals can be simultaneously transmitted, the ET-YFB100G input signal can easily be switched with the wireless remote control that is included with the projector. The projector can be controlled by either serial or LAN communication.

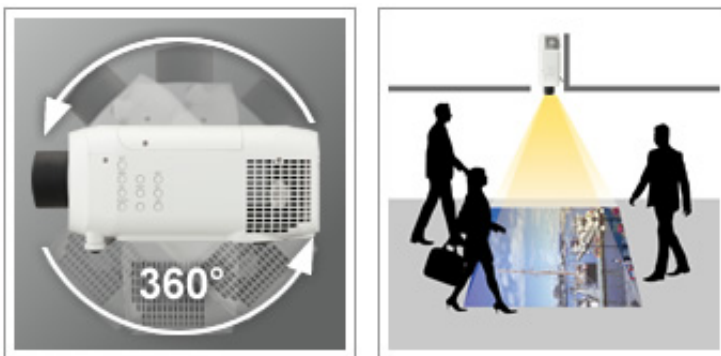
### **Also Supports Other Manufacturers' Peripheral Equipment**

DIGITAL LINK is an original function added to technology based on the transmission standards used in Crestron's DigitalMedia 8G+, Extron's XTP Systems, etc. Signals from the ET-YFB100G can also be relayed to a non-DIGITAL LINK-ready projector by using another manufacturer's equipment based on the same technology.\*

\* Input selection and other ET-YFB100G operations can be performed only when connecting to a DIGITAL LINK compatible projector.

## **Flexible Installation**

The wide adjustment range of the powered horizontal/vertical lens shift function assures convenience and versatility during installation. It lets you easily make adjustments with the remote control. The unit can also be rotated 360 degrees vertically. This means you can install it at any angle you want, to accommodate different installation conditions.



## **A Wide Selection of Optional Lenses**

Choose from a wide lineup of optional lenses for your system, including short-throw, long-throw zoom and fixed-throw lenses for rear projection use. The additional lenses make it easy to adapt your projector to the installation site. The lenses attach and detach with one-touch ease.

## **Easy Remote Monitoring and Control over a LAN**

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™ (class1), an open protocol that is used by many manufacturers, to enable integrated control of systems that contain different brands of projectors.

## **Crestron Connected and AMX Device Discovery**

The LAN terminal allows a computer connected to the network to use Crestron Connected™ application software to manage and control system devices. Besides, the AMX Device Discovery technology is built in the PT-EZ770 Series.

## **Mechanical Lens Shutter**

The mechanical lens shutter completely blocks annoying light leakage when the projector is on standby or temporarily not in use, such as during a meeting.

## **Corner Keystone Correction Enables Angled Projection**

All you need to do is designate four points as the corners of the projected image, and this function easily carries out horizontal and vertical keystone correction.

## **Lens-Centered Design**

A lens-centered, symmetrical design provides ease of installation, eliminating the need for any special considerations when planning the installation site.

## **Abundant Terminals, Including HDMI, DVI-D Input, and DisplayPort**

Extensive interfaces include HDMI and DVI-D input terminals, DisplayPort, DIGITAL LINK and two sets of computer (RGB) input terminals.\*

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. This is convenient when connecting an external audio system through the projector.

\* Supports YPBPR (YCBCR) signals.

## **Built-in 10-W Speaker**

The PT-EZ770 Series projectors feature a high-output 10-watt monaural speaker that produces a large sound volume without requiring external speakers.

## **Side-by-Side and P-in-P Function\* for Effective Presentations and Lectures**

Two different image sources can be simultaneously displayed onto a single screen. You can also switch to P-in-P (Picture-in-Picture) mode and display a sub-window onto the main screen. The sub-window can be positioned anywhere on the screen for more flexible and effective image presentations.

\* This function is not effective for some source combinations.

## **Effective Theft Prevention with the Startup Logo**

You can change the default Panasonic start up logo to any logo you want. A new logo can be easily uploaded by connecting a computer to the PT-EZ770 Series through the LAN or serial connection by using the Logo Transfer Software\*. An abundance of other security measures are also included, such as a security bar, Key lock, and Security Password. This is very effective for preventing theft.

\* Still images that can be uploaded are limited to 1024 x 768 pixel bitmap files. Also, the application will reduce the number of colors to 191.

### **Other Features**

- Presentation support/control tools such as Presentation Timer, Freeze Function, and Digital Zoom
- Projector identification system for remote control allocation of up to 64 projectors
- Direct Power Off right after use
- Built-in closed caption decoder (NTSC and 480i (YCBCR) only)

## **Lower Maintenance and Running Costs**

### **A Dust-Resistant Cabinet Design and an Eco Filter that Needs No Replacement for 15,000 Hours**

The cabinet is designed with a straight airflow path, from intake to exhaust.

The shielding of the lens section, where dust is likely to enter, has been further improved to keep dust out. And the sealing performance of the air filter unit

and air intake duct has been increased to prevent the entry of dust from the filter periphery, resulting in a highly dust-resistant structure.

The Eco Filter unit, which efficiently captures dust in the intake airflow path, requires no replacement for up to 15,000 hours.\* This large, pleated Micro Cut Filter (electrostatic filter) uses an ion effect to trap minute dust particles, further raising the overall dust-trapping capability.

These features minimize the entry of dust into the optical block and maintain brightness over a long period of time, while reducing the hassle of maintenance.

Also, in addition to achieving a long replacement cycle, the Eco Filter can be washed with water\*\* and reused as an environmental consideration.

\* The usage environment affects the duration of the filter.

\*\* When washing with water, please follow the procedures listed in the operating instructions. Also, we recommend replacing the filter with a new one after it has been washed and reused twice. If the filter is not sufficiently clean after washing, replace it with a new one.

## Lamp Replacement Cycle of up to 4,500 hours\*

The PT-EZ770 Series projectors feature a lamp replacement cycle of up to 4,500 hours.\*

This helps to lower operating costs by providing longer usage between lamp replacements.

\* This is the maximum value when the lamp power is set to Eco2. Increases in the lamp on cycle or extended use with the lamp continuously turned on will shorten the lamp replacement cycle. When the lamp power is set to Eco1, the lamp replacement cycle is 4,000 hours and 3,000 hours when setting to Normal. The usage environment affects the lamp replacement cycle.

## Intelligent Lamp Control System Reduces Power Consumption

When the lamp power is set to Auto, the Intelligent Lamp Control system automatically adjusts the lamp output in accordance with the brightness of the projected image and reduces it by up to 58%\*. It also combines with color shift correction, which corrects the shift in the color balance that occurs when the lamp output drops. As a result, power consumption is effectively reduced while excellent color reproduction is maintained.

\* With the lamp power set to Auto.

## 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. You can easily set the Eco Management functions according to operating conditions by using the ECO button on the remote control.

## Easy Lamp and Air Filter Replacement

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 projector is installed on the ceiling.

## Quiet 29-dB\* Design Does Not Interrupt Meetings or Classes

The quiet design keeps noise levels down to 29 dB,\* so the sound of the cooling fan is hardly noticeable. This helps the audience to keep their attention on the speech when someone is giving a presentation or on the screen images during quiet scenes.

\* With the lamp power set to Eco2. 31 dB with lamp power set to Eco1. 37 dB with lamp power set to Normal.

## SPECIFICATIONS

<b>Brightness</b>	6,500 lumens (LAMP POWER: AUTO/NORMAL, Dynamic mode, Standard lens)
<b>Resolution</b>	1,920 x 1,200 pixels
<b>Power Supply</b>	100-240 V AC, 50/60 Hz
<b>Power Consumption</b>	590 W (0.3 W with STANDBY MODE set to ECO, 10 W with STANDBY MODE set to NORMAL, 37 W with in STANDBY MODE of Audio Setting set to on.)
<b>Optical System</b>	Dichroic mirror separation/prism synthesis system
<b>LCD Panel Panel Size</b>	19.0 mm (0.75 inches) diagonal (16:10 aspect ratio)
<b>LCD Panel Display Method</b>	Transparent LCD panel (x 3, R/G/B)
<b>LCD Panel Pixels</b>	2,304,000 (1,920 x 1,200) x 3, total of 6,912,000 pixels
<b>LCD Panel Pixel Configuration</b>	Stripe
<b>Lens</b>	Powered zoom/focus lens (1.7-2.8:1), F 1.7-2.3, f 26.9-45.4 mm Optional powered zoom/focus lenses and fixed-focus lens
<b>Lamp</b>	400 W UHM lamp
<b>Screen Size</b>	1.02 - 10.16 m (40 - 400 inches), 16:10 aspect ratio (1.52 - 10.16 m (60 - 400 inches) with the ET-ELW22 (16:10 aspect ratio))
<b>Center-to-Corner Uniformity</b>	90%
<b>Contrast</b>	5,000:1 (full on / full off, LAMP POWER: AUTO, Iris on, Dynamic mode)
<b>Scanning Frequency (Display Port/HDMI/DVI-D)</b>	fH: 15-100 kHz, fV: 24-120 Hz, dot clock: 25 MHz-162 MHz (VGA: 640 x 480 pixels to WUXGA: 1,920 x 1,200 pixels, VESA CVT-RB compliant, compatible with HDCP)
<b>Scanning Frequency (RGB)</b>	fH: 15-100 kHz, fV: 24-120 Hz, dot clock: up to 162 MHz
<b>Scanning Frequency YPBR (YCBCR)</b>	480i(525i):fH 15.73 kHz; fV 59.94 Hz, 576i(625i):fH 15.63 kHz; fV 60 Hz, 480p(525p):fH 31.47 kHz; fV 59.94 Hz, 576p(625p):fH 31.25 kHz; fV 50 Hz, 720(750)/60p:fH 45.00 kHz; fV 60 Hz, 720(750)/50p:fH 37.50 kHz; fV 50 Hz, 1080(1125)/60i:fH 33.75 kHz; fV 60 Hz, 1080(1125)/50i:fH 28.13 kHz; fV 50 Hz, 1080(1125)/25p:fH 28.13 kHz; fV 25 Hz, 1080(1125)/24p:fH 27.00 kHz; fV 24 Hz, 1080(1125)/24sF:fH 27.00 kHz; fV 48 Hz, 1080(1125)/30p:fH 33.75 kHz; fV 30 Hz, 1080(1125)/60p:fH 67.50 kHz; fV 60 Hz, 1080(1125)/50p:fH 56.25 kHz; fV 50 Hz
<b>Scanning Frequency (Video/YC)</b>	fH: 15.73 kHz, fV: 59.94 Hz [NTSC/NTSC4.43/PAL-M/PAL60]; fH: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/SECAM]
<b>Optical Axis Shift</b>	Vertical: $\pm 60\%$ ( $\pm 50\%$ with the ET-ELW22.) (powered), Horizontal: $\pm 10\%$ (powered); NOTE: Optical axis shift function cannot be operated when used with the ET-ELW21.
<b>Keystone Correction Range</b>	Vertical: $\pm 40^\circ$ (with vertical correction only) Horizontal: $\pm 30^\circ$ (with horizontal correction only)
<b>Installation</b>	Ceiling/floor, front/rear
<b>Built-in Speaker Size</b>	3.7 cm (1-15/32 inches) (round) x 1
<b>Built-in Speaker Output Power</b>	10 W (monaural)
<b>Terminals Display Port In</b>	DP-20P x 1, HDCP compatible; 480p(525p), 576p(625p), 720(750)/60p, 720(750)/50p, 1080(1125)/60i, 1080(1125)/50i, 1080(1125)/25p, 1080(1125)/24p, 1080(1125)/24sF, 1080(1125)/30p, 1080(1125)/60p, 1080(1125)/50p; VGA(640 x 400) - WUXGA(1,920 x 1,200) Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)
<b>Terminals HDMI In</b>	HDMI 19-pin x 1, Deep Color, HDCP compatible; 480i(525i), 576i(625i), 480p(525p), 576p(625p), 720(750)/60p, 720(750)/50p, 1080(1125)/60i, 1080(1125)/50i, 1080(1125)/25p, 1080(1125)/24p, 1080(1125)/24sF, 1080(1125)/30p, 1080(1125)/60p, 1080(1125)/50p; VGA(640 x 400) - WUXGA(1,920 x 1,200); Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)
<b>Terminals DVI-D In</b>	DVI-D 24-pin x 1, DVI 1.0 compliant, compatible with HDCP, compatible with single link only; 480i(525i), 576i(625i), 480p(525p), 576p(625p), 720(750)/60p, 720(750)/50p, 1080(1125)/60i, 1080(1125)/50i, 1080(1125)/25p, 1080(1125)/24p, 1080(1125)/24sF, 1080(1125)/30p, 1080(1125)/60p, 1080(1125)/50p; VGA(640 x 400) - WUXGA(1,920 x 1,200)
<b>Terminals RGB 1 In</b>	D-sub HD 15-pin (female) x 1
<b>Terminals RGB 1 In R, G, B</b>	R: 0.7 Vp-p, 75 ohms; G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B: 0.7 Vp-p, 75 ohms ; HD/VD, SYNC: high impedance, TTL (positive/negative)

<b>Terminals RGB 1 Y, PB (CB), PR (CR)</b>	Y: 1.0 Vp-p (including sync signal); PB (CB), PR (CR): 0.7 Vp-p, 75 ohms ; NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals.
<b>Terminals RGB 2 In</b>	BNC x 5 (RGB/YPBPR/YCBCR x 1)
<b>Terminals RGB 2 In R, G, B</b>	R: 0.7 Vp-p, 75 ohms; G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL (positive/negative); NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals.
<b>Terminals RGB2 In Y, PB (CB), PR (CR)</b>	Y: 1.0 Vp-p (including sync signal); PB (CB), PR (CR): 0.7 Vp-p, 75 ohms
<b>Terminals RGB 2 In S-Video In</b>	Y: 1.0 Vp-p; C: 0.286 Vp-p, 75 ohms
<b>Terminals Video In</b>	PIN Jack x 1, 1.0 Vp-p, 75 ohms
<b>Terminals Monitor Out</b>	D-sub HD 15-pin (female) x 1 R: 0.7 Vp-p, 75 ohms; G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL (positive/negative)
<b>Terminals Monitor Out Y, PB (CB), PR (CR)</b>	Y: 1.0 Vp-p (including sync signal);
<b>Terminals Audio In</b>	M3 (L, R) x 1, 0.5 Vrms, input impedance: 22 kilohms or more; M3 (L, R) x 1, 0.5 Vrms, input impedance: 22 kilohms or more; PIN Jack (L, R) x 2, 0.5 Vrms, input impedance: 22 kilohms or more
<b>Terminals Variable Audio Out</b>	M3 (L, R) x 1 (monitor out: 0-2.0 Vrms, variable)
<b>Terminals Serial In</b>	D-sub 9-pin (female) x 1, for external control (RS-232C compliant)
<b>Terminals Remoter 1 In</b>	M3 jack x 1 for wired remote control
<b>Terminals Remoter 2 In</b>	D-sub 9-pin (female) x 1
<b>Terminals LAN/DIGITAL LINK</b>	RJ-45 x 1 for network and DIGITAL LINK (video/network/serial control) connection, 100Base-TX, compliant with PLink (class 1), Deep Color, compatible with HDCP, 480i(525i), 576i(625i), 480p(525p), 576p(625p), 720(750)/60p, 720(750)/50p, 1080(1125)/60i, 1080(1125)/50i, 1080(1125)/25p, 1080(1125)/24p, 1080(1125)/24sF, 1080(1125)/30p, 1080(1125)/60p, 1080(1125)/50p; VGA(640 x 400) - WUXGA(1,920 x 1,200), dot clock: 25 MHz-162 MHz ; NOTE: Compatible with non-interlaced signals only.
<b>Power Cord Length</b>	3.0 m (9 ft 10 in)
<b>Cabinet Materials</b>	Molded plastic
<b>Dimensions (W x H x D) PT-EZ770Z</b>	530 x 177 x 445 mm (20-7/8 x 6-31/32 x 17-17/32 inches) (with supplied lens)
<b>Dimensions (W x H x D) PT-EZ770ZL</b>	530 x 177 x 385 mm (20-7/8 x 6-31/32 x 15-5/32 inches) (without lens)
<b>Weight PT-EZ770Z</b>	Approx. 10.6 kg (23.4 lbs) (with supplied lens)
<b>Weight PT-EZ770ZL</b>	Approx. 9.8 kg (21.6 lbs) (without lens)
<b>Operation Noise</b>	37 dB (LAMP POWER: NORMAL), 31 dB (LAMP POWER: ECO 1), 29 dB (LAMP POWER: ECO 2)
<b>Operating Temperature</b>	0°C - 45°C (32°F - 113°F)
<b>Operating Humidity</b>	10% - 80% (no condensation)
<b>Technology</b>	LCD

URL: <https://business.panasonic.co.uk/visual-system/pt-ez770z>

## CONTACT

Web: <https://business.panasonic.co.uk/visual-system/contact-us>