

Panasonic

BUSINESS

RZ970 Series

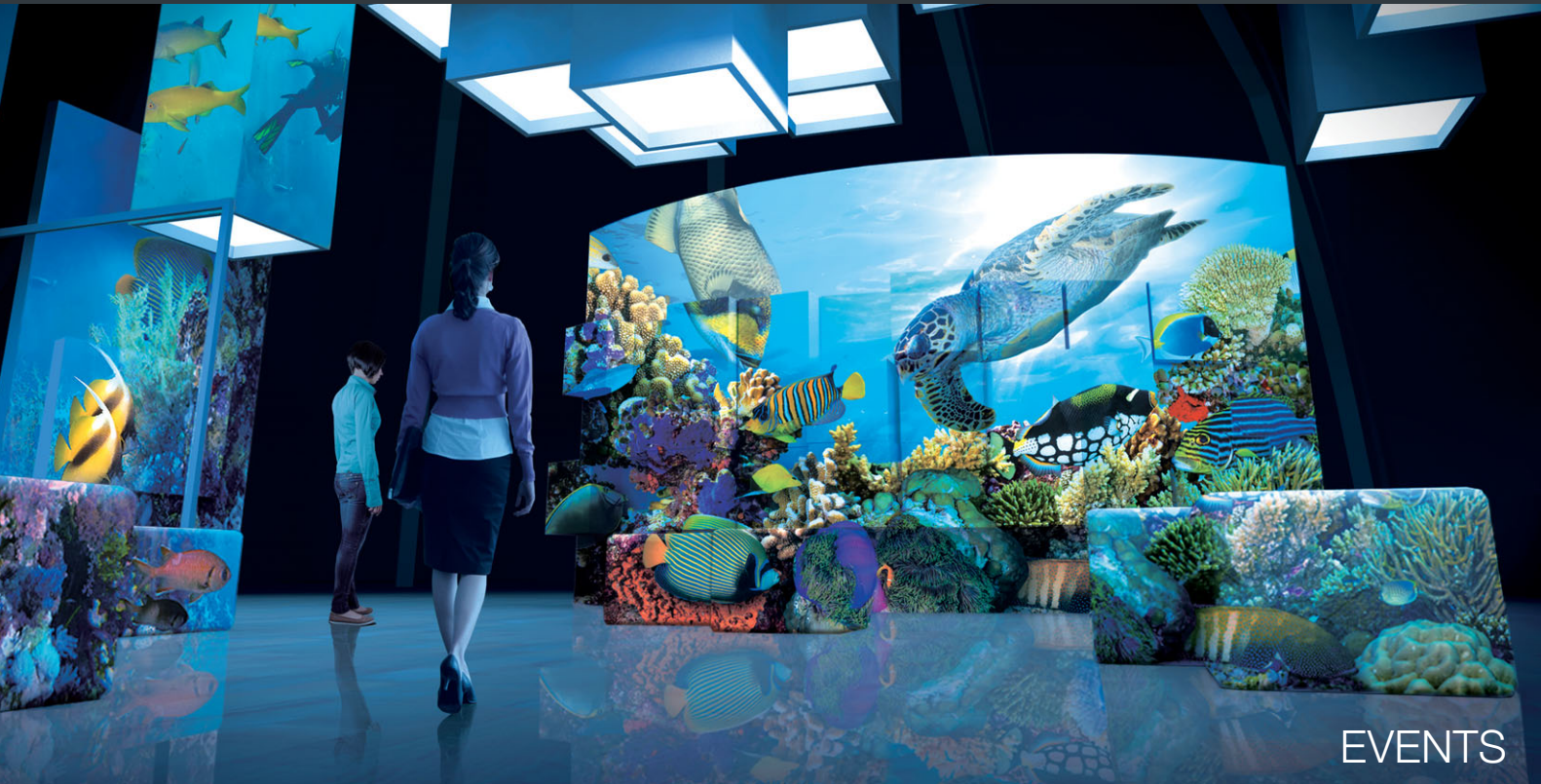
1-Chip DLP™ Projectors

PT-RZ970/RW930/RX110 Series
PT-RZ770/RW730 Series
PT-RZ660/RW620 Series



Unleash the Power of Your Imagination





Engineered for Elite Marathon Performance in Permanent or Temporary Installations

With immersive picture quality and practical features, potential application for Panasonic's PT-RZ970 Series projectors extends from permanent installation in museums, theaters, and control rooms through roles in exhibition/rental and staging. Powered by the acclaimed SOLID SHINE Laser drive and latest 1-Chip DLP™ technology, these projectors exceed expectations with low-maintenance stability and vivid color performance maintained for longer than competitive products over years of dependable 24/7 operation. The PT-RZ970 Series: made by professionals, for professionals.



High Picture Quality	Quick Start and Quick Off	Free 360° Install	Dust-Resistant Optics	Economical	20,000 hours** Maintenance free

	PT-RZ970/RW930/RX110 Series			PT-RZ770/RW730 Series		PT-RZ660/RW620 Series	
	PT-RZ970/L	PT-RW930/L	PT-RX110/L	PT-RZ770/L	PT-RW730/L	PT-RZ660/L	PT-RW620/L
Resolution	WUXGA	WXGA	XGA	WUXGA	WXGA	WUXGA	WXGA
Brightness	10,000 lm (Center) 9,400 lm*		10,400 lm (Center) 10,000 lm*	7,200 lm (Center) 7,000 lm*		6,200 lm (Center) 6,000 lm*	
Contrast	10,000:1						

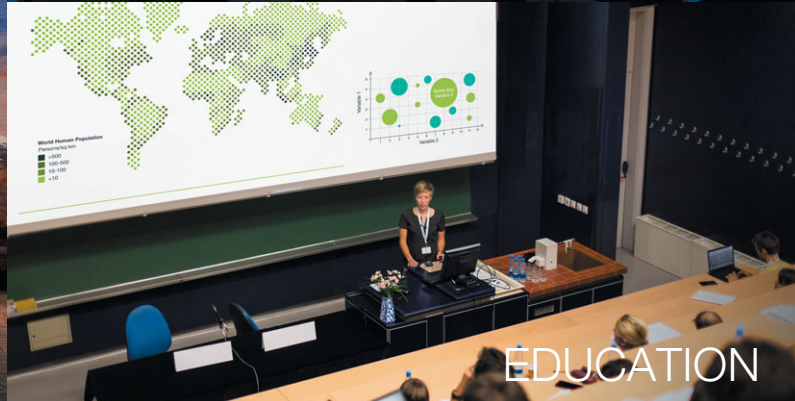
* Measured according to strict international ISO 21118 standards. Note: PT-RZ970L / RZ770L / RZ660L / RW930L / RW730L / RW620L / RX110L do not include a lens.



MUSEUMS



BUSINESS



EDUCATION

See the Advantages of Panasonic's Laser Technology

SOLID SHINE Laser and DLP™ Projection Balances Image Quality with 20,000-hour Maintenance-free*1 Endurance



Harnessing Full-Spectrum Color with Up to 10,400 lm (Center)*2 Brightness

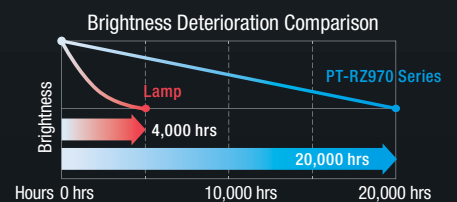
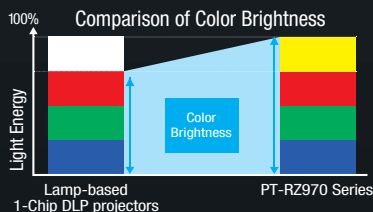
With next-generation DLP™ technology delivering high-resolution detail and dual laser modules outputting up to 10,400 lm (Center)*2 of brightness, Quartet Color Harmonizer to reduce energy loss from the light source, and robust heat-resistant phosphor wheel, the Panasonic SOLID SHINE Laser system produces scintillating images with unfailing reliability.

Superior White Balance and Color Reproduction

The Quartet Color Harmonizer wheel mechanism captures a wider color space than comparable projectors, which allows white to be reproduced realistically on screen. Some conventional projectors can't achieve an accurate white balance, so images can appear with a distracting greenish tint. Not the case with Panasonic SOLID SHINE Laser projectors.

SOLID SHINE Laser Maintains Picture Quality for Longer

Thanks to the long-lasting dual solid-state laser modules, there are no lamps to replace, and image color/brightness degrades very gradually in consistent, linear fashion. As well as reducing maintenance hassle, out-of-the-box picture quality is preserved longer.



*1 At this time the brightness will have decreased to approximately half of its original level (Dynamic Contrast Mode: 3, Image Mode: Dynamic). Panasonic recommends cleaning or checkup at point of purchase after about 20,000 hours. Light source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period.

*2 PT-RZ970/RW930 features 10,000 lm, PT-RZ770/RW730 7,200 lm, PT-RZ660/RW620 6,200 lm, and PT-RX110 10,400 lm of brightness (measured at center of screen).

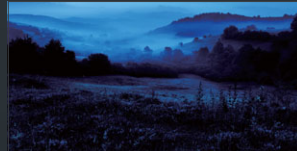
Powerful Brightness, Excellent Picture Quality, Lasting Reliability

Dynamic Contrast Function for High Contrast

The PT-RZ970 Series directly modulates laser power output to achieve high contrast with low power consumption. Digitally controlled frame-by-frame scene-linking modulation ensures highly precise output adjustment, while accurate 10,000:1*3 contrast is delivered even when bright and dark scenes frequently interchange.



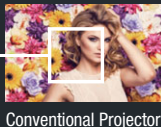
Bright Image



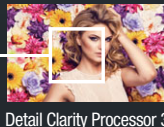
Dark Image

Detail Clarity Processor 3 Sharpens the Finest Details

This unique Panasonic circuit optimizes the sharpness of each image based on the super high, high, medium, and low frequency components of the extracted image information. The resulting images are expressed with natural, convincing realism.



Conventional Projector



Detail Clarity Processor 3

System Daylight View 3 for Sharp and Vivid Images in Bright Environments

Panasonic's premium System Daylight View 3 prevents images from washing out in well-lit environments and enhances brightness perception in multi-projector mapping applications by adjusting sharpness and gamma curves and correcting colors. The result is greater visual impact even in challenging conditions.



Conventional Projector

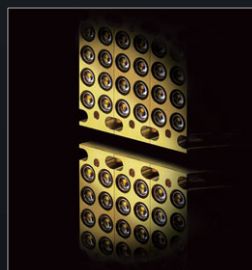


System Daylight View 3

Consistent, Stable Performance

Stable 24/7 Operation with Light-source Failover Protection

Dual Drive Laser Optical Engine groups laser diodes into two discrete modules. A failsafe redundancy circuit works to minimize brightness- and color-uniformity loss should a laser diode fail, making the PT-RZ970 Series ideal for mission-critical applications. Further, brightness decreases more gradually and consistently than lamp-based projectors over a 20,000-hour*4 maintenance-free projection period.



*3 With Dynamic Contrast Mode set to 3. *4 At this time the brightness will have decreased to approximately half of its original level (Dynamic Contrast Mode: 3, Image Mode: Dynamic). Panasonic recommends cleaning or checkup at point of purchase after about 20,000 hours. Light source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period.

Dust-Resistant Airtight Optical Block

The PT-RZ970 Series' optical block is airtight, ensuring consistent, long-lasting image quality for up to 20,000 hours*4 without maintenance. The optical block design passed stringent testing to assure utmost reliability in environments with up to 0.15 mg of particulate matter per cubic meter (based on American Society of Heating, Refrigerating, and Air-Conditioning Engineers [ASHRAE] and Japanese Building Maintenance Association guidelines). The structure prevents brightness degradation from dust intrusion.

Clean Environment	WHO Europe Guideline for Dust Resistance	Japanese Building Maintenance Association ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers)
0.030 mg/m ³	0.110 mg/m ³	0.150 mg/m ³
CLEAN		DUSTY
		Panasonic Dust Test Standard

Selectable Operational Modes Maintain Image Quality Longer

Approx. 20,000 Hours*4 of Continuous Operation

In Normal Mode, the PT-RZ970 Series can operate continuously for about 20,000 hours*4. In Eco Mode, this is extended to around 24,000 hours*4 of continuous operation. These modes enhance suitability for education and signage applications.

Up to 10 Years*5 Operation with Constant Brightness Modes

In environments where full brightness is not necessary, such as surveillance, control, and simulation rooms, constant operation modes extend light-source replacement to up to 87,600 hours*5 in Long Life 3 Mode—about 10 years of 24/7 projection—with consistent brightness and color.

User Operating Mode

In addition to preset operating modes, the PT-RZ970 Series can be customized to achieve your preferred balance of brightness performance or extended life.



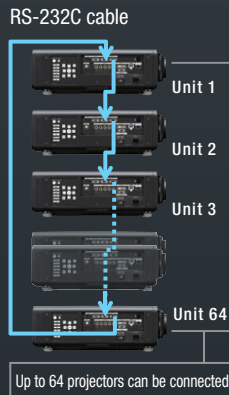
*5 With Operating Mode set to Long Life 3. Long Life Mode is tested in a rear-box projection environment, which is not compliant with ASHRAE. 24 hours/day x 365 days/year x 10 years = 87,600 hours. Replacement of parts other than the light source may be required in a shorter period.

Versatile Installation Flexibility

Unique Contrast Sync and Shutter Sync Function

The PT-RZ970 Series is among the world's first to feature Contrast Sync and Shutter Sync functions (Patent Pending) for multi-screen and mapping applications. Contrast Sync allows the projectors' digitally modulated contrast function to be synchronized over the network for consistent picture quality across screens, while Shutter Sync incorporates a master/slave principle to synchronize shutter on/off timing between all networked projectors. It includes simultaneous fade-in and fade-out functions.

Note: Use of RS-232C straight cable is necessary for all connections. Consult your sales representative for further information.



Contrast Sync

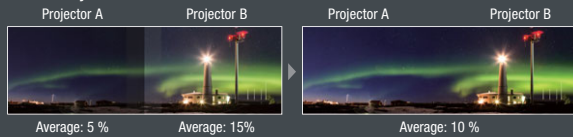
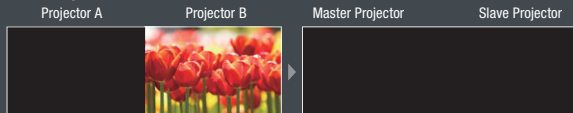


Image luminance of all projectors is averaged for unified Dynamic Contrast, rather than each unit setting Dynamic Contrast separately. Step noise is eliminated in edge-blended areas.

Shutter Sync



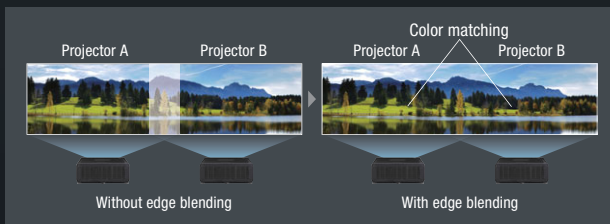
If shutter functions are not linked, shutter ON/OFF timing varies. When shutter functions of slave projectors are linked to a master, shutter ON/OFF timing is uniform*.

* Includes fade-in and fade-out effects. Projector shutter functions can be set to operate individually if desired.

Multi-Screen Support System Seamlessly Connects Multiple Screens

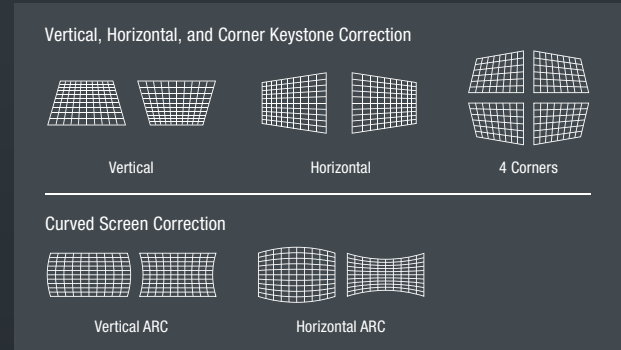
Edge Blending Edges of adjacent screens can be blended and their luminance controlled.

Color Matching Corrects for slight variations in the color reproduction range of individual projectors. PC software assures easy, accurate control.



Geometric Adjustment for Custom Screen Surfaces

Geo Adjustment adapts the image for projection onto spherical, cylindrical, and other specially shaped screens. Fine-tuning is performed with the remote control, with no external equipment needed. Paired with Multi-Screen Support System, highly creative mapping presentations are possible in variety of event and staging applications.

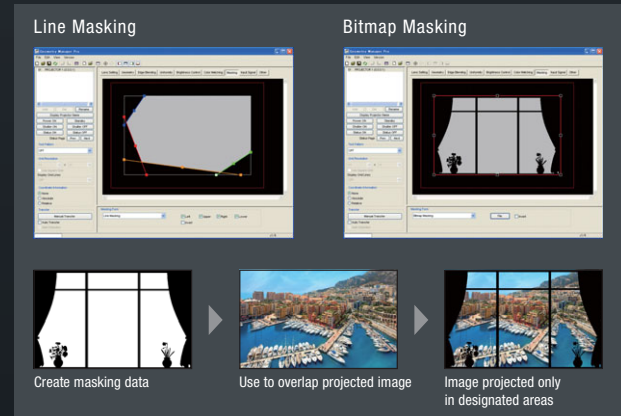


Geometry Manager Pro Software (PT-RZ970/RZ770/RZ660 Only)

Geometry Manager Pro software expands built-in functionality and makes complex adjustments easy. The free software package includes enhanced color matching and edge blending for multi-screen projection and adjustment of multiple screens over the network.

Optional ET-UK20 Upgrade Kit for Geometry Manager Pro (PT-RZ970/RZ770/RZ660 Only)

An optional ET-UK20 Upgrade Kit for Geometry Manager Pro adds creative masking capability using four lines or bitmap data as well as uniformity correction and correction area expansion.



Multi-Unit Brightness and Color Control

This function automatically corrects brightness and color fluctuations that occur over time in individual projectors in a multi-screen system. Control up to eight projectors connected via hub increasing to a maximum of 2,048 projectors with Multi Monitoring & Control Software.



Optional ET-CUK10*6 Series Auto Screen Adjustment Upgrade Kit (PT-RZ970/RZ770/RZ660 Only)

This optional kit activates the Auto Screen Adjustment plug-in software for Geometry Manager Pro, allowing you to set up multiple projectors automatically and simultaneously and save significant amounts of time and money. Performing multi-screen and curved-screen projection calibration in three quick steps using a camera*7 and PC connected to the projector network, this software encompasses geometric adjustment, edge blending, color matching, stacking, brightness, and black level.

*6 Available worldwide except the United States. *7 Supported cameras: Nikon D5200/D5300/D5500.

Reduce Inventory Costs with Shared Lenses

The PT-RZ970 Series shares optional lenses with the Panasonic 1-Chip DLP™ projector range, including the ET-DLE030 Ultra-Short-Throw Lens and ET-DLE085 Zoom Lens for long throw distances, reducing TCO for staging and event companies with large projector inventories. Lenses attach and detach with one-touch ease.

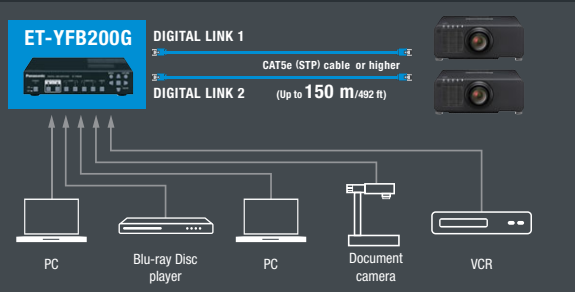
Easy System Flexibility

Single-Cable DIGITAL LINK Control and Video Connection

Upward HDBase™-compatible DIGITAL LINK supports transmission of uncompressed Full HD video and control commands through a single CAT 5e or higher STP cable for distances of up to 150 m (492 ft)*8. Add an optional DIGITAL LINK Switcher or Digital Interface Box to further simplify installation in large venues while reducing cost and improving reliability at the same time.



*8 150 m (492 ft) transmission available only in Long Reach Mode with optional ET-YFB200G DIGITAL LINK Switcher for signals up to 1080/60p (dot-clock frequency 148.5 MHz). Transmission distance is up to 100 m (328 ft) in other cases.



Free 360-degree Rotation

Projection is possible in any direction vertically and horizontally, and the unit can be rotated 360 degrees for installation at any angle.



Supports Art-Net DMX, Crestron Connected™, and PjLink™

The PT-RZ970 Series is compatible with Art-Net DMX protocol for lighting management. This allows the projector to be connected to a lighting console, opening the door to a range of added functionality and control options. The included LAN/DIGITAL LINK terminal also supports Crestron Connected™ and PjLink™ (Class 1) for easy integration of these projectors into an existing AV network utilizing multiple device brands.

Quick Start and Quick Off

The laser light-source doesn't require any warm-up, so images appear almost instantly (in about 1 second*9) with PT-RZ970 Series projectors. There's also no cool-down period needed when turning the power off at the mains—the projector can be turned on and off any time as necessary.

*9 With Quick Start Mode set to ON. Quick Start Mode resets to OFF after duration set in Available Period expires. When Quick Start Mode is set to ON, the projector continues to warm up, increasing power consumption. Image appears in about 9 seconds on Normal Standby Mode and about 12 seconds on Eco Standby Mode.

Multi Monitoring & Control Software

This free Panasonic software offers monitoring and control of up to 2,048 devices over a LAN network from a single PC. For monitoring, status for individual devices can be listed in groups, with more detailed information shown separately. Control functions include power ON/OFF, input switching, scheduling, and command inputs.

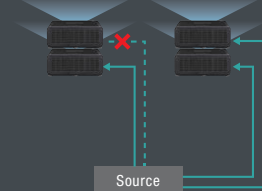
Backup Input Setting Optimizes Performance

This feature allows smooth switching to a backup input signal should the primary signal be disrupted*10, guaranteeing reliability for mission-critical control rooms, projection mapping, staging, and in other applications where image display must be maintained.

*10 Combination of primary/secondary input terminals is fixed. The Backup Input Setting is enabled only when the input signal to the primary and secondary terminals is the same.

Conventional System

Multiple-unit widescreen projection



If the main input signal is disrupted, image display is cut off

Backup Input Setting

Multiple-unit widescreen projection



If primary signal is disrupted, back-up signal smoothly engages to maintain image display

Web Browser Control

These Panasonic SOLID SHINE Laser projectors can be easily operated remotely over a LAN network via a computer's web browser. Projectors can be configured to alert the operator via email if an error has occurred.

Early Warning Software ET-SWA100 Series (Optional)

Early Warning Software monitors the status of projectors and displays connected to an intranet, and informs the operator when an abnormality is detected or predicted, or when there are symptoms of trouble. This minimizes downtime to provide more stable operation.

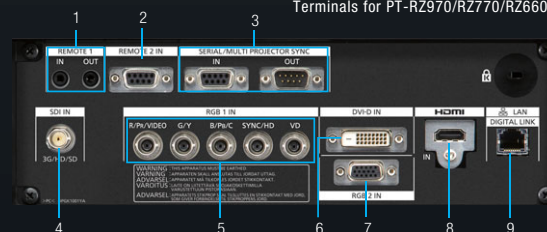
Other Valuable Features

- DICOM Simulation Mode offers easy-to-view X-ray photo reproduction*11
- Rec. 709 mode for HDTV projection to provide accurate colors
- Waveform Monitor for simple yet precise calibration
- Lens-centered design and a wide horizontal/vertical lens shift
- Shutter effect with fade in/fade out (configurable in 0.5-second intervals from 0.5 to 4.0 seconds, or to 5-, 7-, or 10-second intervals)
- PjLink™ compatibility
- P-in-P function*12
- Image rotation function
- On-screen menu rotatable in Portrait Mode
- Scheduling function
- 30 m (98 ft) long-range wireless remote control
- Anti-theft features including chain opening and security bar
- Customizable start-up logo
- ID assignment for up to 64 units
- Built-in test pattern
- Selectable 10-language on-screen menu (English, German, French, Spanish, Italian, Portuguese, Russian, Japanese, Chinese, Korean)
- RoHS Directive-compliant

*11 This product is not a medical instrument. Do not use for actual medical diagnosis. *12 The Picture-in-Picture function cannot be used with certain inputs and input signals.

Terminals

Terminals for PT-RZ970/RZ770/RZ660 shown.



- 1 Remote 1 input/output
- 2 Remote 2 input
- 3 Serial/Multi Projector Sync input/output
- 4 SDI input (PT-RZ970/RZ770/RZ660 only)
- 5 RGB 1 input
- 6 DVI-D input
- 7 RGB 2 input
- 8 HDMI input
- 9 LAN/DIGITAL LINK

Specifications

Model	PT-RZ970/RZ770/RZ660		PT-RW930/RW730/RW620		PT-RX110
Power supply	AC 100–240 V, 50/60 Hz				
Power consumption	[PT-RZ970/RW930/RX110] 1,050 W, Normal*: 742 W, Eco*: 617 W, Long Life 1*: 410–588 W, Long Life 2*: 375–588 W, Shutter*: 82 W; [PT-RZ770/RW730] 825 W, Normal*: 593 W, Eco*: 508 W, Long Life 1*: 333–477 W, Long Life 2*: 310–477 W, Long Life 3*: 286–477 W, Shutter*: 72 W; [PT-RZ660/RW620] 700 W, Normal*: 499 W, Eco*: 428 W, Long Life 1*: 287–402 W, Long Life 2*: 262–402 W, Long Life 3*: 238–402 W, Shutter*: 69 W; [Common] Standby: 85 W with Quick Startup Mode set to ON, 0.2 W with Standby Mode set to Eco, 3 W with Standby Mode set to Normal *In conditions with an operating temperature of 25 °C (77 °F), altitude 700 m [2,297 ft], IEC62087: 2008 Broadcast Content, Picture Mode: Standard, Dynamic Contrast: 2				
DLP™ chip	Panel size	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)		17.8 mm (0.7 in) diagonal (4:3 aspect ratio)	
	Display method	DLP™ chip × 1, DLP™ projection system			
	Pixels	2,304,000 (1920 × 1200) pixels		1,024,000 (1280 × 800) pixels	
Lens	Powered zoom (throw ratio 1.7–2.4:1), powered focus F 1.7–1.9, f 25.6–35.7 mm		Powered zoom (throw ratio 1.8–2.5:1), powered focus F 1.7–1.9, f 25.6–35.7 mm		
Light source	Laser diodes laser Class 1 (Class 3R for US models), light source life*1: 20,000 hours (Normal Mode) / 24,000 hours (Eco Mode). At this time the brightness will have decreased to approximately half of its original level.				
Screen size (diagonal)	1.27–15.24 m (50–600 in), 1.27–5.08 m (50–200 in) with ET-DLE055, 2.54–8.89 m (100–350 in) with ET-DLE030, 16:10 aspect ratio (except PT-RX110), 4:3 aspect ratio (PT-RX110)				
Brightness	PT-RZ970: 10,000 lm (Center) ² / 9,400 lm ¹ PT-RZ770: 7,200 lm (Center) ² / 7,000 lm ¹ PT-RZ660: 6,200 lm (Center) ² / 6,000 lm ¹		PT-RW930: 10,000 lm (Center) ² / 9,400 lm ¹ PT-RW730: 7,200 lm (Center) ² / 7,000 lm ¹ PT-RW620: 6,200 lm (Center) ² / 6,000 lm ¹		10,400 lm (Center) ² / 10,000 lm ¹
Center-to-corner uniformity*1	90 %				
Contrast*1	10,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)				
Resolution	1920 × 1200 pixels		1280 × 800 pixels		1024 × 768 pixels
Scanning frequency	SD-SDI	SMPTE ST 259 compliant, [YCbCr 4:2:2 10-bit] 480i (525i), 625i (576i)			—
	HD-SDI	SMPTE ST 292 compliant, [YPbPr 4:2:2 10-bit] 750 (720)60p, 750 (720)50p, 1125 (1080)60i, 1125 (1080)50i, 1125 (1080)25p, 1125 (1080)24p, 1125 (1080)24sf, 1125 (1080)30p			—
	3G-SDI	SMPTE ST 424 compliant, [RGB 4:4:4 12-bit/10-bit] 1125 (1080)60i, 1125 (1080)50i, 1125 (1080)25p, 1125 (1080)24p, 1125 (1080)24sf, 1125 (1080)30p, 2K/24p, 2K/25p, 2K/30p, [YPbPr 4:2:2 10-bit] 1125 (1080)60p, 1125 (1080)50p, 2K/48p, 2K/50p, 2K/60p			—
	HDMI/DVI-D/DIGITAL LINK	525i (480i)*3, 625i (576i)*3, 525p (480p), 625p (576p), 750 (720)60p, 750 (720)50p, 1125 (1080)60i, 1125 (1080)50i, 1125 (1080)25p, 1125 (1080)24p, 1125 (1080)24sf, 1125 (1080)30p, 1125 (1080)60p, 1125 (1080)50p, 640 × 400–WUXGA*4 (1920 × 1200) (compatible with non-interfaced signals only), dot clock: 25–162 MHz			
	RGB	fh: 15–100 kHz, fv: 24–120 Hz, dot clock: 20–162 MHz			
YPbPr (YCbCr)	fh: 15.73 kHz, fv: 59.9 Hz [525i (480i)], fh: 15.63 kHz, fv: 50 Hz [625i (576i)], fh: 45.00 kHz, fv: 60 Hz [750 (720)60p], fh: 33.75 kHz, fv: 60 Hz [1125 (1080)60i], fh: 28.13 kHz, fv: 50 Hz [1125 (1080)50i], fh: 27.00 kHz, fv: 24 Hz [1125 (1080)24p], fh: 33.75 kHz, fv: 30 Hz [1125 (1080)30p], fh: 56.25 kHz, fv: 50 Hz [1125 (1080)50p], fh: 31.50 kHz, fv: 59.9 Hz [525p (480p)], fh: 31.25 kHz, fv: 50 Hz [625p (576p)], fh: 37.50 kHz, fv: 50 Hz [750 (720)50p], fh: 33.75 kHz, fv: 60 Hz [1125 (1080)60i], fh: 28.13 kHz, fv: 25 Hz [1125 (1080)25p], fh: 27.00 kHz, fv: 48 Hz [1125 (1080)24sf], fh: 67.50 kHz, fv: 60 Hz [1125 (1080)60p]				
Video/YC	fh: 15.73 kHz, fv: 59.9 Hz (NTSC/NTSC4.43/PAL-M/PAL60), fh: 15.63 kHz, fv: 50 Hz (PAL/PAL-N/SECAM)				
Optical axis shift*5	Vertical (from center of screen)	+50 %, -16 % (powered)		+60 %, -16 % (powered)	
	Horizontal (from center of screen)	+30 %, -10 % (+28 %, -10 % with ET-DLE085) (powered)		+50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered)	
Keystone correction range	Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE085/DLE055/DLE030), horizontal: ±15 ° (Cannot be operated with ET-DLE085/DLE055/DLE030)			Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE030), Horizontal: ±15 ° (Cannot be operated with ET-DLE085/DLE055/DLE030)	
Keystone correction range with optional Upgrade Kit ET-UK20	Vertical: ±45 ° (±40 ° with ET-DLE150/DLE250/supplied lens, ±22 ° with ET-DLE085/DLE055), horizontal: ±40 ° (±15 ° with ET-DLE085/DLE055), Up to a total of ±55 ° during simultaneous horizontal and vertical correction.			—	
Installation	Ceiling/floor, front/rear, free 360-degree installation				
Terminals	SDI IN	BNC × 1: 3G/HD/SD-SDI input			—
	HDMI IN	HDMI 19-pin × 1 (Deep Color, compatible with HDCP)			
	DVI-D IN	DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)			
	RGB 1 IN	RGB × 1 (BNC × 5): RGB/YPbPr/YCbCr/YC/VIDEO			
	RGB 2 IN	D-sub HD 15-pin (female) × 1: RGB/YPbPr/YCbCr			
	SERIAL/MULTI PROJECTOR SYNC IN	D-sub 9-pin (female) × 1 for contrast sync/shutter sync/external control (RS-232C compliant)			
	SERIAL/MULTI PROJECTOR SYNC OUT	D-sub 9-pin (male) × 1 for contrast sync/shutter sync/RS-232C link control			
	REMOTE 1 IN	M3 × 1 for wired remote control			
	REMOTE 1 OUT	M3 × 1 for link control (for wired remote control)			
	REMOTE 2 IN	D-sub 9-pin (female) × 1 for external control (parallel)			
	LAN/DIGITAL LINK	RJ-45 × 1 for network, DIGITAL LINK connection, 100Base-TX, compatible with Art-Net, PjLink™, Deep Color, HDCP			
	Cabinet materials	Molded plastic			
Dimensions (W × H × D)	498 × 200 ^{±5} × 581 mm (19 19/32" × 7 7/8" ± 6 × 22 7/8") (with supplied lens) 498 × 200 ^{±5} × 538 mm (19 19/32" × 7 7/8" ± 6 × 21 3/16") (without lens)				
Weight*7	PT-RZ970/RW930/RX110/RZ770/RW730: Approx. 23.2 kg (51.1 lbs.) (with supplied lens), Approx. 22.4 kg (49.4 lbs.) (without lens) PT-RZ660/RW620: Approx. 23.1 kg (50.9 lbs.) (with supplied lens), Approx. 22.3 kg (49.2 lbs.) (without lens)				
Operation noise*1	PT-RZ970/RW930/RX110: 41 dB, PT-RZ770/RW730: 37 dB, PT-RZ660/RW620: 35 dB				
Operating environment	Operating temperature: 0–45 °C (32–113 °F)*8, operating humidity: 10–80 % (no condensation)				
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro*9 (ET-UK20*9 Upgrade Kit and ET-CLK*10 Auto Screen Adjustment Kit)				
Supplied accessories	Power cord, wireless/wired remote control unit, batteries (R03/AAA type x 2), software CD-ROM (Logo Transfer Software, Multi Monitoring & Control Software), projection lens cover, lens cover (models with lens only)				

Note: The PT-RZ970/RZ770/RZ660/RW930/RW730/RW620/RX110 delivers the same performance as the PT-RZ970/RZ770/RZ660/RW930/RW730/RW620/RX110, but comes without a lens.

*1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. *2 Measured at center area of projector screen. Measurement method is in compliance with ISO/IEC 21118: 2012. Value is average of all products when shipped. May differ depending on actual unit. *3 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal). *4 WUXGA resolution is supported with CVT-RB signals (WUXGA60R) and CVT signals (WUXGA50). *5 Optical axis shift is not supported on the ET-DLE055, and the optical axis is fixed with the ET-DLE030. *6 With legs at shortest position. *7 Average value. May differ depending on the actual unit. *8 When used in locations from 0 m to 4,200 m (0 ft to 13,780 ft) above sea level in Normal Mode, and from 0 m to 2,700 m (0 ft to 8,858 ft) above sea level in other modes. If the ambient temperature exceeds 35 °C (95 °F) [30 °C (86 °F) for PT-RZ970/RW930/RX110] when used in locations from 0 m to 2,700 m (0 ft to 8,858 ft) above sea level, or if it exceeds 25 °C (77 °F) when used in locations from 2,700 m to 4,200 m (8,858 ft to 13,780 ft) above sea level, the light output may be reduced to protect the projector. *9 Available only with PT-RZ970/RZ770/RZ660. *10 Available only with PT-RZ970/RZ770/RZ660. Available worldwide except the United States.

The cabinet for each model is available in black or white.

Black models	PT-RZ970B PT-RW930B PT-RX110B PT-RZ770B PT-RW730B PT-RZ660B PT-RW620B	PT-RZ970LB PT-RW930LB PT-RX110LB PT-RZ770LB PT-RW730LB PT-RZ660LB PT-RW620LB	White models	PT-RZ970W PT-RW930W PT-RX110W PT-RZ770W PT-RW730W PT-RZ660W PT-RW620W	PT-RZ970LW PT-RW930LW PT-RX110LW PT-RZ770LW PT-RW730LW PT-RZ660LW PT-RW620LW
					
	[Models with supplied lens]	[Models without lens]		[Models with supplied lens]	[Models without lens]

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All information included here is valid as of September 2016.

PT-RZ970series_G1 Printed in Japan.

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