Panasonic

PT-**EZ590** Series

BUSINESS

Forhandler: **AV-Concept aps** TIf: 30321889

Mail: info@av-concept.dk www.av-concept.dk

PT-EZ590/PT-EZ590L PT-EW650/PT-EW650L

PT-**EW550**/PT-**EW550**L

PT-**EX620**/PT-**EX620**L

PT-EX520/PT-EX520L

Flexibility and Performance to Meet Your Needs



-@-

Natural Pictures in Bright Rooms



Reason

1

More than 30 years of hard-won experience stands behind every Panasonic projector we make. Innovative technology guarantees uncommonly bright and vivid pictures even in well-lit rooms.



System Flexibility



Reason

2

Long-reach single-cable AV control, powered lens shift/zoom/focus, and wide compatibility with existing infrastructure simplify and streamline setup for permanent or portable installations.

Why Choose Panasonic?

People choose Panasonic because our products are dependable and meet the needs of professionals and educators. The versatile PT-EZ590 Series, for example, serves up immersive pictures in almost any situation, plug-and-play, with uncommonly low running costs. Like you, Panasonic projectors are working hard to deliver results of the highest quality.





Low Total Cost of Ownership



Reason

3

From dust-resistant construction to long-life UHM lamp, the PT-EZ590 Series is engineered for trouble-free operation with very low maintenance, saving you time and money.



LCD Projectors

DIGITAL

PT-EZ590 Series

	PT-EZ590	PT-EW650	PT-EW550	PT-EX620	PT-EX520	
Resolution	WUXGA	WXGA	WXGA	XGA	XGA	
Brightness	5,400 lm	5,800 lm	5,000 lm	6,200 lm	5,300 lm	
Contrast	10,0	00:1	2,000:1	10,000:1	2,000:1	









Enginnering / Art classes

Lecture theaters

Classrooms

Meeting rooms



High Picture Quality

Compact and Stylish Projectors Deliver Up to 6,200 Im*1 Brightness

With up to 6,200 lm*1 of brightness, the PT-EZ590 Series produces brilliant images even in high levels of artificial light. Text is clear and legible while graphics and video are reproduced with natural vibrancy.

Dynamic Contrast of 10,000:1*2 with Iris

High dynamic contrast of 10,000:1*2 is enabled by an iris mechanism, so that whites are brighter and blacks deeper with minimal loss of detail in dark images. The result is crisp and comfortable viewing.

High WUXGA*3 Resolution for Lush Detail

With up to WUXGA*3 (1920 x 1200) resolution, the PT-EZ590 Series is capable of displaying Full HD video. The extra detail and depth engages viewers for a more compelling presentation.

Daylight View Basic Ensures Vivid Images in Bright Rooms

Panasonic's original Daylight View Basic uses a built-in sensor to measure ambient light and calibrates image-projection to suit, optimizing brightness and halftone color and sharpening details for easy-to-see pictures in well-lit environments



Conventional Projector



Daylight View Basic

DICOM Simulation Mode for Medical Presentations

This imaging mode is similar to the DICOM Part 14 medical imaging standard. It lends a film-like quality to X-ray images, making the PT-EZ590 Series suitable for training presentations related to medicine*4.







Normal Mode

DICOM Simulation Mode

Color Adjustment for Multi-screen Projection

This function corrects subtle variations in the color reproduction range of individual units set up for multi-screen projection, particularly in side-by-side configuration.



Adjustment



Easy Setup and System Integration

Flexible Layout with **Multiple Projectors**

DIGITAL LINK* makes it quick and easy to select the appropriate display device when rearranging the venue to facilitate different types of presentations, such as lectures or group discussions.





^{*} For PT-EZ590/EZ590L, PT-EW650/EW650L, and PT-EX620/EX620L only.



Installation Simplified with DIGITAL LINK

ET-YFB200G

PC

HDMI 2

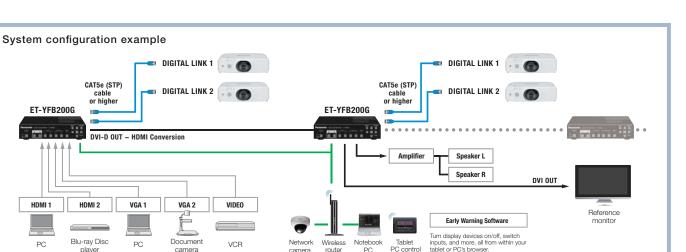
PT-EZ590/EZ590L, PT-EW650/EW650L, and PT-EX620/EX620L feature a DIGITAL LINK connection that supports transmission of Full HD video, audio, and control signals through a single CAT 5e or higher STP cable for distances of up to 150 m (492 ft)*5. An optional DIGITAL LINK Switcher or Digital Interface Box allows source devices to be connected and signals routed to the projector via one cable, saving installation cost and simplifying the AV system.

DIGITAL LINK is based on the HDBaseT™ communication standard developed by the HDBaseT Alliance with unique Panasonic functions added. This means peripheral HDBaseTM-compatible devices manufactured by other brands can be connected together with Panasonic products such as the ET-YFB200G for easy system control over the network.



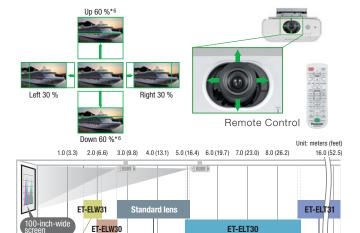
DIGITAL

DIGITAL LINK Switcher ET-YFB200G



Powered Lens Shift, Zoom, and Focus via Remote Control

The wide adjustment range of the powered horizontal/vertical lens-shift function assures convenience and versatility during installation. Zoom and focus are also easily adjusted via remote control.

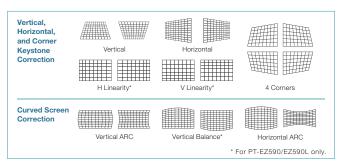


For PT-EZ590/EZ590L/EW650/EW650L/EW550/EW550L (16:10 aspect ratio).

Project onto Curved Surfaces

Throw ratio 1.59 ~ 2.07 1.99 ~2.61 2.69 ~ 5.02

Horizontal, Vertical, and Corner Keystone Correction adjusts the image shape for clear visibility when projecting off-axis or from an unusual angle. Curved Screen Correction allows for the projection of natural, distortion-free images onto curved or cylindrical surfaces.





Range of Optional Lenses

Choose from a selection of optional zoom lenses for your system. The additional lenses make it easier to adapt the projector to the installation site. Lenses attach and detach with one-touch ease.



Mechanical Lens Shutter

A mechanical lens shutter prevents light leakage when the projector is on standby or temporarily not in use, such as periods during meetings.

Note: PT-EW550/EW550L and PT-EX520/EX520L feature an AV Mute function instead of a problem of the proposed project.

Lens-Centered Design

A symmetrical lens-centered design reduces installation complexity and makes these projectors easier to adapt to a wider range of installation sites.



Project Wirelessly with Optional Module

The optional ET-WML100 wireless USB module enables projection of a variety of media via Windows® PCs, iOS devices, or Android™ devices loaded with an appropriate app. Whether projecting from desk or ceiling, there's no need for cables—and it's also possible to display content from more than one device at a time in Multi-Live Mode.

Presenter Light Ver. 1.0 for Windows® PCs

- Stills, video, documents (including PDF and PowerPoint® files), and other media displayed on the PC screen can be wirelessly projected
- Images from up to four PCs can be projected simultaneously

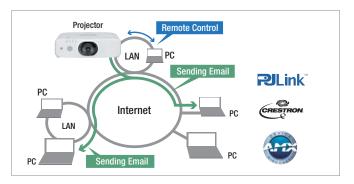
VueMagic™ Pro*⁷ for iOS/Android™ Devices

- Selected still images and document formats (including PDF files) are supported
- Features Live Camera Mode and Annotate Mode
- Images from up to four devices can be projected simultaneously



Integrates into Existing AV Infrastructure

With support for PJLink™ Class 1, Crestron Connected, AMX, and RS-232C over wired LAN, any legacy unit can be swapped out for a PT-EZ590 Series projector without disrupting existing control and management infrastructure. Emulation via RS-232C allows original settings to be preserved. PT-EZ590 Series supports optional Early Warning Software that notifies the administrator ahead of time when part replacement is required.



^{*1} PT-EX620/EX620L features 6,200 Im, PT-EW650/EW650L 5,800 Im, PT-EZ590/EZ590L 5,400 Im, PT-EX520/EX520L 5,300 Im, and PT-EW550/EW550L 5,000 Im of brightness. *2 PT-EW550/EW550L and PT-EX520/EX520L feature 2,000:1 contrast. *3 PT-EZ590/EZ590L features WUXGA, PT-EW650/EW650L/EW550/EW550L WXGA, and PT-EX620/EX520/EX520L XGA native resolution. *4 This product is not a medical instrument. Do not use for actual medical diagnosis. *5 150 m (492 ft) transmission available in Long Reach Mode with optional ET-YFB200G DIGITAL LINK Switcher only. Signal resolution is limited to 1080/60p (dot-clock frequency 148.5 MHz) and below. *6 PT-EX620/EX520/EX520/EX520/EX520L features up to 50 % lens shift. *7 VueMagic™ Pro is a product of Pixelworks, Inc. For more information, please visit vuemagic_pixelworks.com



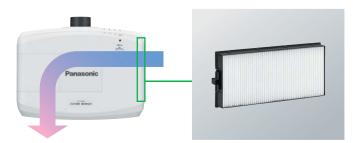
Low Running Cost and Easy Maintenance

Extended Lamp Replacement Cycle

PT-EZ590 Series projectors feature a lamp replacement cycle of up to 5,000 hours*8. This helps to lower operating costs, reduce labor, and minimize wastage by extending the operation period between lamp maintenance

Dust-Resistant Cabinet and Extra-Long-Life Eco Filter

If dust gets inside the projector's optical unit, brightness suffers. The PT-EZ590 Series protects against dust intrusion with a one-way airflow design and improved sealing for the lens block, air intake duct, and Eco Filter. This electrostatic Micro Cut Filter captures the tiniest dust particles and requires no maintenance for 15,000 hours*9. It also can be washed and reused*10. These dust-resistant projectors are designed to maintain brightness for longer in high-traffic environments while reducing servicing costs.



ECO Management Slashes Power Consumption

A variety of Eco Management functions are accessible via a button on the remote controller. These include brightness optimization for ambient lighting conditions and lamp power reduction when no input signal is detected.





Quiet Operation in ECO Mode

The quiet design reduces operating noise to just 29 dB*11, with the sound of the cooling fan hardly noticeable. This helps to keep the audience focused on your presentation.

Easy-Access Lamp and Filter

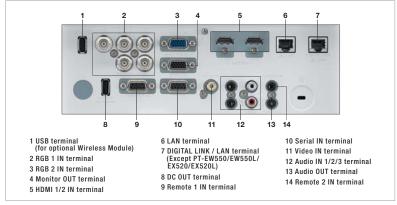
To reduce hassle, the filter can be replaced via the side and the lamp from the top of the projector. There's no need to remove the unit from its ceiling mount for periodic maintenance.





Additional Features

- Power-saving Eco Standby Mode draws just 0.3 W*12
- Direct Power Off enables safe projector shutdown via breaker switch
- Anti-theft measures include security bar, password protection, and personalized startup logo
- . Supports free Multi Monitoring & Control Software
- 10 W speaker
- Closed Captioning (NTSC, 480i YCBCR)
- Schedule Function



Terminals for PT-EZ590/EZ590L, PT-EW650/EW650L, and PT-EX620/EX620L shown.

*8 With lamp power set to ECO. Up to 4,000 hours with lamp power set to NORMAL. *9 Period varies depending on usage environment. *10 Follow user manual procedures when servicing filter. Replacement recommended after washing and reusing filter twice. If not sufficiently clean after washing, replacement is advised. *11 35 dB with lamp power set to NORMAL. *12 When the Standby Mode is set to ECO, network functions such as Power On via LAN will not operate. Also, only certain commands can be received for external control using the serial terminal.

Related Products

Featuring a Dual Eco Filter, this compact and essentially dustproof projector is ideal for use in classrooms of small to moderate size, and features DIGITAL LINK for ease of installation.



LCD Projectors PT-FZ570 Series

PT-FZ570 WUXGA 4,500 lm 10,000:1 PT-FW530 WXGA 4,500 lm 10,000:1 XGA 5,000 lm 10,000:1 PT-FX500

■ Projection Distance

PT-EZ590 / PT-EZ590L / PT-EW650 / PT-EW650L / PT-EW550 / PT-EW550L

unit: meters (feet)

			Height from the edge of									
D:	-1 :											
Diagon	al image size	ET-ELW31 ET-		ELW30 Stand		dard lens ET-I		LT30	ET-ELT31		screen to center of lens (H)	
		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
	1.02 (40")	0.62 (2.0)	0.81 (2.7)	0.78 (2.6)	1.03 (3.4)	1.03 (3.4)	1.94 (6.4)	1.86 (6.1)	3.42 (11.2)	3.53 (11.6)	6.35 (20.8)	-0.05 \sim 0.59 (-0.2 \sim 1.9)
	1.27 (50")	0.78 (2.6)	1.02 (3.3)	0.98 (3.2)	1.29 (4.2)	1.29 (4.2)	2.42 (7.9)	2.35 (7.7)	4.29 [14.1]	4.37 (14.3)	7.88 (25.9)	-0.07 \sim 0.74 (-0.2 \sim 2.4)
	1.52 (60")	0.94 (3.1)	1.23 (4.0)	1.18 (3.9)	1.55 (5.1)	1.55 (5.1)	2.91 (9.5)	2.83 (9.3)	5.16 (16.9)	5.21 (17.1)	9.41 (30.9)	-0.08 \sim 0.89 (-0.3 \sim 2.9)
16:10 aspect ratio	1.78 (70")	1.10 (3.6)	1.44 (4.7)	1.39 (4.6)	1.82 (6.0)	1.82 (6.0)	3.41 (11.2)	3.33 (10.9)	6.06(19.9)	6.08 (19.9)	11.00 (36.1)	-0.09 ~ 1.04 (-0.3 ~ 3.4)
	2.03 (80")	1.26 (4.1)	1.65 (5.4)	1.59 (5.2)	2.08 (6.8)	2.09 (6.9)	3.89 (12.8)	3.82 (12.5)	6.93 (22.7)	6.93 (22.7)	12.54 (41.1)	-0.11 ~ 1.18 (-0.4 ~ 3.9)
	2.29 (90")	1.43 (4.7)	1.87 (6.1)	1.79 (5.9)	2.35 (7.7)	2.36 (7.7)	4.40 (14.4)	4.32 (14.2)	7.84 (25.7)	7.80 (25.6)	14.13 (46.4)	-0.12 ~ 1.34 (-0.4 ~ 4.4)
	2.54 (100")	1.59 (5.2)	2.07 (6.8)	1.99 (6.5)	2.61 (8.6)	2.62 (8.6)	4.88 (16.0)	4.80 (15.7)	8.71 (28.6)	8.64 (28.3)	15.66 (51.4)	-0.13 ~ 1.48 (-0.4 ~ 4.9)
	3.05 (120")	1.91 (6.3)	2.5 (8.2)	2.40 (7.9)	3.14 (10.3)	3.15 (10.3)	5.87 (19.3)	5.79 (19.0)	10.49 (34.4)	10.35 (34.0)	18.79 (61.6)	-0.16 \sim 1.78 (-0.5 \sim 5.8)
	3.81 (150")	2.40 (7.9)	3.13 (10.3)	3.01 (9.9)	3.93 (12.9)	3.94 (12.9)	7.34 (24.1)	7.26 (23.8)	13.13 (43.1)	12.91 (42.4)	23.44 (76.9)	$-0.20 \sim$ 2.22 ($-0.7 \sim$ 7.3)
	5.08 (200")	3.21 (10.5)	4.18 (13.7)	4.02 (13.2)	5.25 (17.2)	5.27 (17.3)	9.79 (32.1)	9.71 (31.9)	17.55 (57.6)	17.18 (56.4)	31.23 (102.5)	-0.27 ~ 2.96 (-0.9 ~ 9.7)
	6.35 (250")	4.01 (13.2)	5.23 (17.2)	5.03 (16.5)	6.57 (21.6)	6.59 (21.6)	12.25 (40.2)	12.17 (39.9)	21.98 (72.1)	21.45 (70.4)	39.01 (128.0)	-0.34 ~ 3.70 (-1.1 ~ 12.1)
	7.62 (300")	4.82 (15.8)	6.29 (20.6)	6.05 (19.8)	7.89 (25.9)	7.92 (26.0)	14.71 (48.3)	14.63 (48.0)	26.40 (86.6)	25.72 (84.4)	46.79 (153.5)	-0.40 ~ 4.44 (-1.3 ~ 14.6)
	10.16 (400")	6.44 (21.1)	8.39 (27.5)	8.07 (26.5)	10.53 (34.5)	10.57 (34.7)	19.62 (64.4)	19.54 (64.1)	35.25 (115.6)	34.26 (112.4)	62.36 (204.6)	-0.54 \sim 5.92 (-1.8 \sim 19.4)
	1.02 (40")	0.64 (2.1)	0.84 (2.8)	0.80 (2.6)	1.06 (3.5)	1.06 (3.5)	1.99 (6.5)	1.92 (6.3)	3.51 (11.5)	3.62 (11.9)	6.52 (21.4)	-0.08 \sim 0.58 (-0.3 \sim 1.9)
	1.27 (50")	0.80 (2.6)	1.05 (3.4)	1.01 (3.3)	1.32 (4.3)	1.33 (4.4)	2.49 (8.2)	2.41 (7.9)	4.41 (14.5)	4.49 (14.7)	8.09 (26.5)	-0.10 \sim 0.73 (-0.3 \sim 2.4)
	1.52 (60")	0.96 (3.1)	1.26 (4.1)	1.21 (4.0)	1.59 (5.2)	1.60 (5.2)	2.99 (9.8)	2.91 (9.5)	5.30 (17.4)	5.35 (17.6)	9.67 (31.7)	$-0.12 \sim 0.87$ ($-0.4 \sim 2.9$)
	1.78 (70")	1.13 (3.7)	1.48 (4.9)	1.43 (4.7)	1.87 (6.1)	1.88 (6.2)	3.51 (11.5)	3.43 (11.3)	6.23 (20.4)	6.25 (20.5)	11.31 (37.1)	-0.15 \sim 1.02 (-0.5 \sim 3.3)
	2.03 (80")	1.30 (4.3)	1.70 (5.6)	1.63 (5.3)	2.13 (7.0)	2.14 (7.0)	4.0 (13.1)	3.92 (12.9)	7.13 (23.4)	7.12 (23.4)	12.88 (42.3)	-0.17 \sim 1.16 (-0.6 \sim 3.8)
1/ 0	2.29 (90")	1.47 (4.8)	1.92 (6.3)	1.84 (6.0)	2.41 (7.9)	2.42 (7.9)	4.52 (14.8)	4.44 (14.6)	8.06 (26.4)	8.01 (26.3)	14.52 (47.6)	-0.19 ~ 1.31 (-0.6 ~ 4.3)
16:9 aspect ratio	2.54 (100")	1.63 (5.3)	2.13 (7.0)	2.05 (6.7)	2.68 (8.8)	2.69 (8.8)	5.02 (16.5)	4.94 (16.2)	8.96 (29.4)	8.88 (29.1)	16.09 (52.8)	-0.21 \sim 1.45 (-0.7 \sim 4.8)
uspect rutto	3.05 (120")	1.97 (6.5)	2.57 (8.4)	2.47 (8.1)	3.22 (10.6)	3.24 (10.6)	6.03 (19.8)	5.95 (19.5)	10.78 (35.4)	10.64 (34.9)	19.31 (63.4)	-0.25 \sim 1.74 (-0.8 \sim 5.7)
	3.81 (150")	2.46 (8.1)	3.21 (10.5)	3.09 (10.1)	4.04 (13.3)	4.05 (13.3)	7.54 (24.7)	7.46 (24.5)	13.50 (44.3)	13.27 (43.5)	24.09 (79.0)	-0.31 ∼ 2.18 (-1.0 ∼ 7.2)
	5.08 (200")	3.30 (10.8)	4.30 (14.1)	4.13 (13.5)	5.39 (17.7)	5.42 (17.8)	10.07 (33.0)	9.99 (32.8)	18.05 (59.2)	17.66 (57.9)	32.09 (105.3)	-0.42 \sim 2.90 (-1.4 \sim 9.5)
	6.35 (250")	4.13 (13.5)	5.38 (17.7)	5.17 (17.0)	6.75 (22.1)	6.78 (22.2)	12.59 (41.3)	12.51 (41.0)	22.59 (74.1)	22.04 (72.3)	40.09 (131.5)	-0.52 ~ 3.63 (-1.7 ~ 11.9)
	7.62 (300")	4.96 (16.3)	6.46 (21.2)	6.22 (20.4)	8.11 (26.6)	8.14 (26.7)	15.11 (49.6)	15.04 (49.3)	27.14 (89.0)	26.43 (86.7)	48.09 (157.8)	-0.62 ~ 4.36 (-2.0 ~ 14.3)
	10.16 (400")	6.62 (21.7)	8.63 (28.3)	8.30 (27.2)	10.82 (35.5)	10.86 (35.6)	20.16 (66.1)	20.09 (65.9)	36.23 (118.9)	35.21(115.5)	64.09 (210.3)	-0.83 ~ 5.81 (-2.7 ~ 19.1)

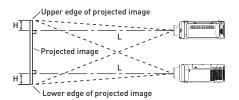
PT-EX620 / EX62	L, PT-EX520 /	EX520L
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unit: meters (feet)

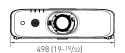
	Projection distance (L)*											
Diagonal image size			Height from the edge of									
		ET-ELW31		ET-E	ET-ELW30 Standar		ard lens ET-E		LT30	ET-ELT31		screen to center of lens (H)
		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
	1.02 (40")	0.63 (2.1)	0.90 (3.0)	0.80 (2.6)	1.05 (3.4)	1.05 (3.4)	1.98 (6.5)	1.90 (6.2)	3.51 (11.5)	3.60 (11.8)	6.46 (21.2)	0.00 ~ 0.61 (0.0 ~ 2.0)
	1.27 (50")	0.79 (2.6)	1.11 (3.6)	1.00 (3.3)	1.31 (4.3)	1.32 (4.3)	2.47 (8.1)	2.39 (7.8)	4.39 [14.4]	4.45 (14.6)	8.03 (26.3)	$0.00 \sim 0.76 (0.0 \sim 2.5)$
	1.52 (60")	0.95 (3.1)	1.32 (4.3)	1.20 (3.9)	1.58 (5.2)	1.58 (5.2)	2.96 (9.7)	2.88 (9.4)	5.28 (17.3)	5.31 (17.4)	9.59 (31.5)	$0.00 \sim$ 0.91 (0.0 \sim 3.0)
	1.78 (70")	1.12 (3.7)	1.54 (5.1)	1.41 (4.6)	1.85 (6.1)	1.86 (6.1)	3.47 (11.4)	3.39 (11.1)	6.20(20.3)	6.20 (20.3)	11.21 (36.8)	$0.00 \sim$ 1.07 (0.0 \sim 3.5)
	2.03 (80")	1.29 (4.2)	1.75 (5.7)	1.62 (5.3)	2.12 (7.0)	2.12 (7.0)	3.97 (13.0)	3.89 (12.8)	7.09 (23.3)	7.06 (23.2)	12.77 (41.9)	0.00 ~ 1.22 (0.0 ~ 4.0)
	2.29 (90")	1.45 (4.8)	1.97 (6.5)	1.83 (6.0)	2.39 (7.8)	2.40 (7.9)	4.48 (14.7)	4.40 (14.4)	8.01 (26.3)	7.95 (26.1)	14.40 (47.2)	$0.00\sim$ 1.37 (0.0 \sim 4.5)
4:3 aspect ratio	2.54 (100")	1.62 (5.3)	2.18 (7.2)	2.03 (6.7)	2.66 (8.7)	2.67 (8.8)	4.97 (16.3)	4.89 (16.0)	8.89 (29.2)	8.80 (28.9)	15.96 (52.4)	$0.00\sim 1.52(0.0\sim 5.0)$
aspectiano	3.05 (120")	1.95 (6.4)	2.61 (8.6)	2.45 (8.0)	3.20 (10.5)	3.21 (10.5)	5.98 (19.6)	5.90 (19.4)	10.70 (35.1)	10.55 (34.6)	19.14 (62.8)	$0.00\sim$ 1.83 (0.0 \sim 6.0)
	3.81 (150")	2.44 (8.0)	3.26 (10.7)	3.06 (10.0)	4.00 (13.1)	4.02 (13.2)	7.47(24.5)	7.39 (24.2)	13.40 (44.0)	13.16 (43.2)	23.89 (78.4)	$0.00\sim$ 2.29 (0.0 \sim 7.5)
	5.08 (200")	3.27 (10.7)	4.33 (14.2)	4.10 (13.5)	5.35 (17.6)	5.37 (17.6)	9.98 (32.7)	9.90 (32.5)	17.90 (58.7)	17.51 (57.4)	31.82 (104.4)	$0.00 \sim$ 3.05 (0.0 \sim 10.0)
	6.35 (250")	4.09 (13.4)	5.40 (17.7)	5.13 (16.8)	6.69 [21.9]	6.72 (22.0)	12.48 (40.9)	12.40 (40.7)	22.40 (73.5)	21.86 (71.7)	39.75 (130.4)	$0.00\sim 3.81(0.0\sim 12.5)$
	7.62 (300")	4.91 (16.1)	6.48 (21.3)	6.16 (20.2)	8.04 (26.4)	8.07 (26.5)	14.98 (49.1)	14.90 (48.9)	26.91 (88.3)	26.21 (86.0)	46.68 (156.4)	$0.00\sim$ 4.57 (0.0 \sim 15.0)
	10.16 (400")	6.56 (21.5)	8.62 (28.3)	8.22 (27.0)	10.73 (35.2)	10.77 (35.3)	19.99 (65.6)	19.91(65.3)	35.91 (117.8)	34.91 (114.5)	63.55 (208.5)	$0.00\sim$ 6.10 (0.0 \sim 20.0)

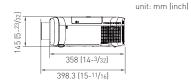
^{*} The value for L (distance to screen) varies slightly within ±5 % depending on the zoom lens characteristics.

Note: The zoom lens characteristics may cause slight image distortion. When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.



Dimensions





Optional Accessories

Zoom Lens ET-ELW31



Zoom Lens ET-ELW30



Zoom Lens ET-ELT30



Zoom Lens ET-ELT31



Replacement Lamp Unit ET-LAEF100



Ceiling Mount Bracket (for High Ceiling) ET-PKD120H



Ceiling Mount Bracket (for Low Ceiling) ET-PKD120S



Projector Mount Bracket ET-PKE300B



Replacement Filter Unit ET-RFE300



D-sub/S-VIDEO Conversion Cable ET-ADSV



DIGITAL LINK Switcher

ET-YFB200G



Digital Interface Box

ET-YFB100G



Wireless Module ET-WML100



Early Warning ET-SWA100 series

Specifications

Model		PT-EZ590/EZ590L	PT-EW650/EW650L	PT-EW550/EW550L	PT-EX620/EX620L	PT-EX520/EX520L							
Power suppl	ly	100-240 V AC, 50/60 Hz											
Power consu	umption	484 W, Normal: 444 W, Eco: 325 W (0.3 W with Standby Mode set to Eco*1, 12 W with Standby Mode set to Normal)	461 W, Normal: 424 W, Eco: 305 W (0.3 W with Standby Mode set to Eco*1, 12 W with Standby Mode set to Normal)	461 W, Normal: 424 W, Eco: 305 W (0.3 W with Standby Mode set to Eco*1, 12 W with Standby Mode set to Normal)	461 W, Normal: 424 W, Eco: 305 W (0.3 W with Standby Mode set to Eco*1, 8 W with Standby Mode set to Normal)								
	Panel size	16.3 mm (0.64") diagonal (16:10 aspect ra	tio)	16.0 mm (0.63") diagonal (4:3 aspect ratio)									
	Display method	Transparent LCD panel (x 3, R/G/B)											
	Drive method	Active matrix											
Pixels		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$											
ens		PT-EZ590/EW650/EW550: Powered 1.8 x PT-EZ590L/EW650L/EW550L: Optional po	zoom (throw ratio 1.22–2.26:1), powered fo wered zoom/focus lenses	PT-EX620/EX520: Powered 1.8 x zoom (throw ratio 1.32–2.44:1), powered focus F 1.6–2.2, f 17.1–31.7 mm, PT-EX620L/EX520L: Optional powered zoom/focus lenses									
		320 W UHM lamp × 1											
amp replac	cement cycle	4,000 hours*2 (Lamp Power: Normal), 5,00	0 hours*2 (Lamp Power: Eco)										
Screen size (diagonal) Brightness*3		1.03-10.57 m (40-400 in), 16:10 aspect ratio 1.05-10.77 m (40-400 in), 4:3 aspect ratio											
		5,400 lm (Lamp Power: Normal, Dynamic Mode, Iris: OFF, Daylight View: OFF, Auto Power Save: OFF)	5,800 lm (Lamp Power: Normal, Dynamic Mode, Iris: OFF, Daylight View: OFF, Auto Power Save: OFF)	6,200 Im (Lamp Power: Normal, Dynamic Mode, Iris: OFF, Daylight View: OFF, Auto Power Save: OFF) Daylight View: OFF, Auto Power Save: OFF)									
Center-to-co	orner uniformity* ³	90 %											
		10,000:1 (Lamp Power: Normal, Dynamic Mode, Iris: 0	IN, Daylight View: OFF, Auto Power Save: OFF)	2,000:1 (Lamp Power: Normal, Dynamic Mode, Iris: ON, Daylight View: OFF, Auto Power Save: OFF)	10,000:1 (Lamp Power: Normal, Dynamic Mode, Iris: ON, Daylight View: OFF, Auto Power Save: OFF)	2,000:1 (Lamp Power: Normal, Dynamic Mode, Iris: ON, Daylight View: OFF, Auto Power Save: OFF)							
Resolution		1920 × 1200 pixels	1280 × 800 pixels*4		1024 × 768 pixels*4								
canning	HDMI/DIGITAL LINK	fH: 15 kHz-90 kHz, fV: 24 Hz-100 Hz, dot	clock: 25 MHz-162 MHz, compatible with HD	CP. DIGITAL LINK not included on PT-EW550/	EW550L/EX520/EX520L.								
	RGB	fH: 15 kHz-90 kHz, fV: 24 Hz-100 Hz, dot	clock: up to 162 MHz										
	YPBPR (YCBCR)	Ht. 15.73 kHz, fV: 59.94 Hz [480i (525ii), FH: 15.63 kHz, fV: 50 Hz [576i (625i)], FH: 45.00 kHz, fV: 60 Hz [720 (750)/60p], FH: 33.75 kHz, fV: 60 Hz [1080 (1125)/60i], FH: 28.13 kHz, fV: 25 Hz [1080 (1125)/25p], FH: 27.00 kHz, fV: 48 Hz [1080 (1125)/24p], FH: 67.50 kHz, fV: 60 Hz [1080 (1125)/24p], FH: 33.75 kHz, fV: 50 Hz [576i (625i)], FH: 27.00 kHz, fV: 50 Hz [576i (625i)], FH: 37.50 kHz, fV: 50 Hz											
	Video/YC	ft: 15.73 kHz, fV: 59.94 Hz [NTSC/NTSC4.43/PAL-M/PAL60], ft: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/SECAM]											
)ptical	Vertical (from center of screen)	±60 % (powered) ±50 % (powered)											
	Horizontal (from center of screen)	±30 % (powerd)											
Keystone co	rrection range* ⁵	Vertical: ±25 °, horizontal: ±30 °	Vertical: ±35 °, horizontal: ±35 °										
nstallation		Ceiling/floor, front/rear											
Built-in spea	aker	4.0 m (nonaura) x 1											
Terminals	HDMI IN	HDMI 19-jin × 2 (Deep Color, compatible with HDCP), audio signal: Linear PCM (Sampling frequency: 48 kHz/44.1 kHz/32 kHz)											
	RGB 1 IN	TROM 15-PIN 2. Experience Will Flow 3, action signs. Leading in requency. 40 of 22 o											
	RGB 2 IN	Mini D-sub 15-pin (female) x 1											
	VIDEO IN	Pin jack x 1 (composite video)											
	MONITOR OUT	Mini D-sub 15-pin (female) x 1 (RGB x 1) (compatible with RGB or YPsPx/YCsCR)											
	AUDIO IN	Pin jack x 2 (J/R x 1), M3 x 2 (L-R x 2)											
	AUDIO OUT												
	SERIAL IN	M3 x 1 (L-R x 1) for output (variable) Dusth Quin (female) v 1 for external control (RS-222C compliant)											
	REMOTE 1 IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant) D-sub 9-pin (female) x 1 for external control (parallel)											
	TILIVIOTE I IIV	D-sub 9-pin (female) x 1 for external control (parallel)											
	DEMOTE 2 IN	M2 v 1 for wired remote control											
	REMOTE 2 IN	M3 × 1 for wired remote control	T 100Rase TV compatible with P II inkTM										
	REMOTE 2 IN LAN DIGITAL LINK / LAN	M3 × 1 for wired remote control RJ-45 x 1 for network connection, 10Base- RJ-45 x 1 for network and DIGITAL LINK co 100Base-TX, compatible with PJLink TM , HI	nnection,	-	RJ-45 x 1 for network and DIGITAL LINK connection, 100Base-TX, compatible with PJLink™, HDCP, Deep Color	_							
	LAN	RJ-45 x 1 for network connection, 10Base- RJ-45 x 1 for network and DIGITAL LINK co 100Base-TX, compatible with PJLinkTM, HE	nnection,		connection, 100Base-TX, compatible with	_							
Operating n	DIGITAL LINK / LAN	RJ-45 x 1 for network connection, 10Base- RJ-45 x 1 for network and DIGITAL LINK co 100Base-TX, compatible with PJLink™, HI USB terminal for optional Wireless Module (nnection, ICP, Deep Color ET-WML100) x 1, DC output terminal for pow	or supply (DC 5 V, up to 900 mA) x 1	connection, 100Base-TX, compatible with	-							
	DIGITAL LINK / LAN	RJ-45 x 1 for network connection, 10Base- RJ-45 x 1 for network and DIGITAL LINK co 100Base-TX, compatible with PJLink TM , HIL USB terminal for optional Wireless Module 35 dB (Lamp Power: Normal), 29 dB (Lamp	nnection, ICP, Deep Color ET-WML100) x 1, DC output terminal for pow Power: Eco)	— er supply (DC 5 V, up to 900 mA) x 1	connection, 100Base-TX, compatible with	-							
ilter	LAN DIGITAL LINK / LAN USB-A Oise*3	RJ-45 x 1 for network connection, 10Base- RJ-45 x 1 for network and DIGITAL LINK co 100Base-TX, compatible with PJLink TM , HI USB terminal for optional Wireless Module 35 dB (Lamp Power: Normal), 29 dB (Lamp x 1, replacement cycle: up to 15,000 hour	nnection, ICP, Deep Color ET-WML100) x 1, DC output terminal for pow Power: Eco)		connection, 100Base-TX, compatible with PJLink TM , HDCP, Deep Color	— (AV mute)							
Filter Mechanical	LAN DIGITAL LINK / LAN USB-A oise*3	RJ-45 x 1 for network connection, 10Base- RJ-45 x 1 for network and DIGITAL LINK co 100Base-TX, compatible with PJLink TM , HI USB terminal for optional Wireless Module 35 dB (Lamp Power: Normal), 29 dB (Lamp x 1, replacement cycle: up to 15,000 hour Yes	nnection, ICP, Deep Color ET-WML100) x 1, DC output terminal for pow Power: Eco)		connection, 100Base-TX, compatible with	— (AV mute)							
Operating no Filter Mechanical Cabinet mat Dimensions	LAN DIGITAL LINK / LAN USB-A oise*3	RJ-45 x 1 for network connection, 10Base- RJ-45 x 1 for network and DIGITAL LINK co 100Base-TX, compatible with PJLink™, HI USB terminal for optional Wireless Module I 35 dB (Lamp Power: Normal), 29 dB (Lamp x 1, replacement cycle: up to 15,000 hour Yes Molded plastic (PC + ABS) PT-F7590/FW650/FX52	nnection, ICP, Deep Color ET-WML100) x 1, DC output terminal for pow Power: Eco)	— (AV mute) 3/25 -7 x 15 11/16 () (with sunnied lens)	connection, 100Base-TX, compatible with PJLink TM , HDCP, Deep Color	— (AV mute)							
Filter Mechanical Cabinet mat	LAN DIGITAL LINK / LAN USB-A Oise*3 shutter	RJ-45 x 1 for network connection, 10Base- RJ-45 x 1 for network and DIGITAL LINK co 100Base-TX, compatible with PJLink M- HI USB terminal for optional Wireless Module (35 dB (Lamp Power: Normal), 29 dB (Lamp x 1, replacement cycle: up to 15,000 hour Yes Molded plastic (PC + ABS) PT-EZ590/EW650/EW550/EX620/EX520 PT-EZ590/EW650/EW550/EX620/EX620/EX620/EX520- PT-EZ590/EW650/EX500/EX500/EX500- PT-EZ590/EW650/EX500/EX500/EX500/EX620/EX620/EX500- PT-EZ590/EW650/EX500/EX500/EX500/EX620/EX620/EX500	nnection, CP, Deep Color ET-WML100) x 1, DC output terminal for pow Power: Eco) 16 19 19/32 x 5 2 15 20L: 498 x 145 x 398.3 mm (19 19/32 x 5 2 15 20L: 498 x 145 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388 mm (19 19/32 x 5 2 15 20L: 498 x 388	— (AV mute) $\frac{3}{32^{*7}} \times 15^{*1}/_{16}$ ") (with supplied lens) $\frac{5}{29}/_{32}$ " $\times 14^{*3}/_{32}$ ") (without lens) lens) lens)	connection, 100Base-TX, compatible with PJLink TM , HDCP, Deep Color	— (AV mute)							
ilter Mechanical Cabinet mat Dimensions Veight*8	LAN DIGITAL LINK / LAN USB-A Oise*3 shutter	RJ-45 x 1 for network connection, 10Base- RJ-45 x 1 for network and DIGITAL LINK co 100Base-TX, compatible with PJLink M- HI USB terminal for optional Wireless Module (35 dB (Lamp Power: Normal), 29 dB (Lamp x 1, replacement cycle: up to 15,000 hour Yes Molded plastic (PC + ABS) PT-EZ590/EW650/EW550/EX620/EX520 PT-EZ590/EW650/EW550/EX620/EX620/EX620/EX520- PT-EZ590/EW650/EX500/EX500/EX500- PT-EZ590/EW650/EX500/EX500/EX500/EX620/EX620/EX500- PT-EZ590/EW650/EX500/EX500/EX500/EX620/EX620/EX500	nnection, ICP, Deep Color ET-WML100) x 1, DC output terminal for pow Power: Eco) 1.498 x 145*7 x 398.3 mm (19 19/32* x 5 2 1.520L: 498 x 145*7 x 358 mm (19 19/32* x 5 2 1.520L: 498 x 145*7 x 358 mm (19 19/32* x 5 2 1.520L: 498 x 145*7 x 358 mm (19 19/32* x 5 2 1.520L: 498 x 145*7 x 358 mm (19 19/32* x 5 2 1.520L: 498 x 145*7 x 358 mm (19 19/32* x 5 2 1.520L: 498 x 145*7 x 358 mm (19 19/32* x 5 2 1.520L: 498 x 145*7 x 358 mm (19 19/32* x 5 2	— (AV mute) $\frac{3}{32^{*7}} \times 15^{*1}/_{16}$ ") (with supplied lens) $\frac{5}{29}/_{32}$ " $\times 14^{*3}/_{32}$ ") (without lens) lens) lens)	connection, 100Base-TX, compatible with PJLink TM , HDCP, Deep Color	— (AV mute)							

Note: The PT-EZ590L/EW650L/EX620L/EX520L delivers the same performance as the PT-EZ590/EW650/EW550/EX620/EX520, but comes without a lens. *1 When Standby Mode is set to Eco, network functions such as power on over LAN will not operate. Also, only certain commands can be received for external control using the serial terminal. *2 This is the maximum value when the lamp is turned on for 2 hours and off for 0.25 hours. If the lamp is turned on more frequently or kept on for a long time, lamp replacement cycle will be reduced. Usage environment affects the duration of the lamp. *3 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *4 Input signals that exceed supported resolution will be converted. *5 With the supplied lens.

Value differs when the correction for both directions is operated. *6 Usage environment affects the duration of the filter. *7 With legs at shortest position. *8 Average value. May differ depending on models. *9 At altitudes below 1,400 m (4,593 ft) above sea level. Operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when used at altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level. Also, if ambient temperature exceeds 40 °C (104 °F) (35 °C [95 °F] at high altitude), lamp power automatically switches to Eco in order to protect the projector. *10 Power cords available (x2) for Europe, the UK and Asia only.

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Panasonic



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