



PT-RZ970/RZ970L PT-RW930/RW930L PT-RX110/RX110L

Stellar Projection for Marathon Missions





A TELAS INSTRUMENTS INCOMPULOEY

Worldwide Olympic Partner





High-Brightness Projectors Engineered for Elite Professional Performance



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

1-Chip DLP	P™ Projectors	PT- RZ97 () Series
	PT-RZ970/RZ970L	PT-RW930/RW930L	PT-RX110/RX110L
Resolution	WUXGA	WXGA	XGA
Brightness	10,000 lm (Center) 9,400 lm*		10,400 lm (Center) 10,000 lm*
Contrast			
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Key Advantages of Panasonic's Laser Technology

SOLID SHINE Laser Phosphor and 1-Chip DLP™ Imaging Balance Image Quality with Marathon Endurance



Harnessing Full-Spectrum Color with Up to 10,400 Im (Center)*¹ Brightness

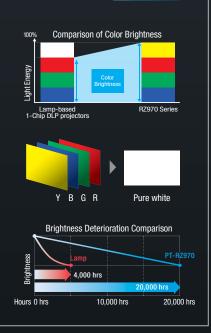
With next-generation DLP[™] technology delivering high-resolution detail and dual laser modules outputting up to 10,400 lm (Center)^{*1} of brightness, Quartet Color Harmonizer to reduce energy loss from the light source, and robust heat-resistant phosphor wheel, Panasonic PT-RZ970 Series' SOLID SHINE 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 PT-RZ970 Series 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 PT-R2970/R2970L and PT-RW930/RW930L features 10,000 Im and PT-RX110/RX110L 10,400 Im of brightness (measured at center of screen), *2 With Quick Startup Mode set to 0N. Quick Startup Mode is set to 0N, 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. *3 At this timme the brightness will have decreased to approximately half of its original level (Opmanic Contrast Mode: 3), Image Mode: Dynamic), Panasonic recommends cleaning or checkup at point of purchase after 20,000 hours (approximately). 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.

Powerful Brightness, Excellent Picture Quality, Lasting Reliability

Dynamic Light Control 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*4 contrast is delivered even when bright and dark scenes frequently interchange. *4 With Dynamic Contrast Mode set to 3.

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.

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.

Consistent, Stable Performance

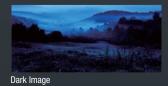
Dust-Resistant Airtight Optical Block

PT-RZ970 Series' optical block is airtight, ensuring consistent, long-lasting image quality for up to 20,000 hours*5 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.

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 PT-RZ970 Series ideal for mission-critical applications. Further, brightness decreases more gradually and consistently than lamp-based projectors over a 20,000-hour*5 maintenance-free projection period.











Conventional Projector



System Daylight View 3



Panasonic Dust Test Standard

Selectable Operational Modes Maintain Image Quality Longer

Approx. 20,000 Hours^{*5} of Continuous Operation

In Normal Mode, the PT-RZ970 Series can operate continuously for about 20,000 hours*5. In Eco Mode, this is extended to around 24,000 hours*5 of continuous operation. These modes enhance suitability for education and signage applications.

Up to 10 Years^{*6} 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*6 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.



¹⁵ 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 20,000 hours (approximately), 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. *6 With Operating Mode set to Long Life 3. Long Life Mode is tested in conditions, with 0.015 mg of particulate matter per cubic meter (simulating rear-box projection environment), which is not compliant with ASHRAE. 24 hours/day X365 days/year x 10 years = 87,600 hours. Replacement of parts other than the light source may be required in a shorter period. shorter period

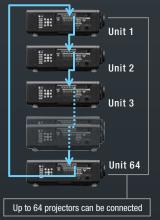
Versatile Installation Flexibility

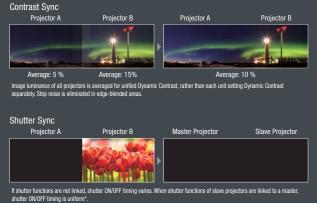
Unique Contrast Sync and Shutter Sync Function

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

RS-232C cable





* 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

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.

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/RZ970L 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 Series Upgrade Kit for Geometry Manager Pro (PT-RZ970/RZ970L Only)

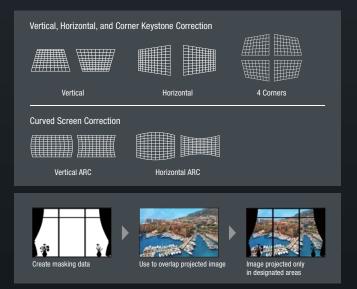
An optional ET-UK20 Upgrade Kit for Geometry Manager Pro adds creative masking capability using four lines or bitmap data as well as uniformity correction and correction area expansion.

Optional ET-CUK10 Series*7 Auto Screen Adjustment Upgrade Kit (PT-R2970/R2970L 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*^a and PC connected to the projector network, this software encompasses geometric adjustment, edge blending, color matching, stacking, brightness, and black level.

*7 Available worldwide except the United States. *8 Supported cameras are Nikon D5200/D5300/D5500.





Reduce Inventory Costs with Shared Lenses

The PT-RZ970 Series shares optional lenses with Panasonic 1-Chip DLP[™] projector range, including the ET-DLE030 Ultra-Short-Throw Lens and ET-DLE085 Zoom Lens for long throw distances, reducing TC0 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 HDBaseT[™]-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)^{so}. 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. *9 150 m (492 ft) transmission available only in Long Reach Mode with optional ET-YFB2006 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.



DIGITAL

INGLE COBLE SOLUTION

LINK

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

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 seamless integration of PT-RZ970 Series projectors into an existing AV network utilizing multiple device brands.

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.

Quick Start, Quick Off

The laser light-source doesn't require any warm-up, so images appear almost instantly (in about 1 second*11) 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.

*11 With Quick Startup Mode set to ON. Quick Startup Mode resets to OFF after duration set in Available Period expires. When Quick Startup 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 0N/0FF, input switching, scheduling, and command inputs.

Web Browser Control

The PT-RZ970 Series 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.

Other Valuable Features

- DICOM Simulation Mode reproduces easy-to-view rendering of X-ray photos*12
- 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*13
- Image rotation function

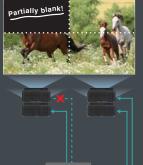
- On-screen menu rotatable in Portrait Mode
 Scheduling function
- 30 m (98 ft) long-range wireless remote
- control

 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

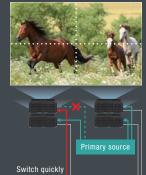
*12 This product is not a medical instrument. Do not use for actual medical diagnosis. *13 The Picture-in-Picture function cannot be used with certain inputs and input signals.



Conventional System Backup Multiple-unit widescreen projection Multiple-u



Backup Input Setting Multiple-unit widescreen projection

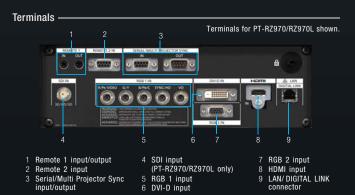


If the main input signal is disrupted, image display is cut off If primary signal is disrupted, back-up signal smoothly engages to maintain image display

Secondary source

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.



Optional Accessories



Projection Distances

							Distance to	o screen (A)						
Screen size (diagonal)							Zoom	lenses						Fixed-focus lens*1
(ulayonal)			E085		LE150		ed lens		LE250		E350		LE450	ET-DLE055
PT-RZ970/	1.27 (50")	min. 0.82 (2.7)	max. 1.04 (3.4)	min. 1.38 (4.5)	max. 2.01 (6.6)	min. 1.82 (6.0)	max. 2.57 (8.4)	min. 2.42 (7.9)	max. 3.87 (12.7)	min. 3.80 (12.5)	max. 5.81 (19.1)	min. 5.66 (18.6)	max. 9.12 (29.9)	0.83 (2.7)
RZ970L	1.52 (60")	1.00 (3.3)	1.25 (4.1)	1.66 (5.5)	2.43 (8.0)	2.20 (7.2)	3.10 (10.2)	2.42 (7.9)	4.65 (15.3)	4.59 (15.1)	7.00 (23.0)	6.85 (22.5)	11.01 (36.1)	1.00 (3.3)
(16:10	1.78 (70″)	1.17 (3.9)	1.47 (4.8)	1.95 (6.4)	2.84 (9.3)	2.58 (8.5)	3.63 (11.9)	3.42 (11.2)	5.44 (17.9)	5.38 (17.6)	8.19 (26.9)	8.04 (26.4)	12.89 (42.3)	1.18 (3.9)
aspect ratio)	2.03 (80″)	1.35 (4.4)	1.68 (5.5)	2.23 (7.3)	3.25 (10.7)	2.95 (9.7)	4.16 (13.6)	3.92 (12.8)	6.23 (20.4)	6.16 (20.2)	9.38 (30.8)	9.23 (30.3)	14.78 (48.5)	1.35 (4.4)
	2.29 (90")	1.52 (5.0)	1.90 (6.2)	2.52 (8.3)	3.66 (12.0)	3.33 (10.9)	4.69 (15.4)	4.42 (14.5)	7.02 (23.0)	6.95 (22.8)	10.57 (34.7)	10.43 (34.2)	16.66 (54.7)	1.53 (5.0)
	2.54 (100")	1.70 (5.6)	2.11 (6.9)	2.81 (9.2)	4.08 (13.4)	3.71 (12.2)	5.21 (17.1)	4.92 (16.1)	7.81 (25.6)	7.74 (25.4)	11.76 (38.6)	11.62 (38.1)	18.55 (60.8)	1.70 (5.6)
	3.05 (120")	2.05 (6.7)	2.55 (8.4)	3.38 (11.1)	4.90 (16.1)	4.47 (14.7)	6.27 (20.6)	5.91 (19.4)	9.39 (30.8)	9.31 (30.6)	14.14 (46.4)	14.00 (45.9)	22.31 (73.2)	2.05 (6.7)
	3.81 (150")	2.57 (8.4)	3.19 (10.5)	4.24 (13.9)	6.14 (20.1)	5.60 (18.4)	7.86 (25.8)	7.41 (24.3)	11.75 (38.6)	11.68 (38.3)	17.71 (58.1)	17.58 (57.7)	27.97 (91.8)	2.58 (8.5)
	5.08 (200")	3.44 (11.3)	4.27 (14.0)	5.67 (18.6)	8.20 (26.9)	7.50 (24.6)	10.50 (34.5)	9.91 (32.5)	15.70 (51.5)	15.61 (51.2)	23.66 (77.6)	23.54 (77.2)	37.39 (122.7)	3.45 (11.3)
	6.35 (250")	4.31 (14.1)	5.35 (17.6)	7.10 (23.3)	10.26 (33.7)	9.39 (30.8)	13.15 (43.1)	12.41 (40.7)	19.64 (64.4)	19.55 (64.1)	29.61 (97.1)	29.50 (96.8)	46.81 (153.6)	-
	7.62 (300″)	5.18 (17.0)	6.43 (21.1)	8.53 (28.0)	12.33 (40.4)	11.28 (37.0)	15.79 (51.8)	14.91 (48.9)	23.59 (77.4)	23.49 (77.1)	35.56 (116.7)	35.46 (116.3)	56.24 (184.5)	-
	10.16 (400")	6.93 (22.7)	8.59 (28.2)	11.39 (37.4)	16.45 (54.0)	15.07 (49.4)	21.07 (69.1)	19.90 (65.3)	31.48 (103.3)	31.36 (102.9)	47.46 (155.7)	47.38 (155.4)	75.08 (246.3)	-
	12.70 (500 [~])	8.67 (28.5)	10.75 (35.3)	14.25 (46.7)	20.58 (67.5)	18.86 (61.9)	26.36 (86.5)	24.90 (81.7)	39.37 (129.2)	39.23 (128.7)	59.36 (194.7)	59.30 (194.6)	93.93 (308.2)	-
	15.24 (600")	10.42 (34.2)	12.91 (42.3)	17.11 (56.1)	24.70 (81.0)	22.64 (74.3)	31.65 (103.8)	29.89 (98.1)	47.25 (155.0)	47.11 (154.6)	71.25 (233.8)	71.22 (233.7)	112.77 (370.0)	-
PT-RW930/	1.27 (50″)	0.87 (2.8)	1.09 (3.6)	1.45 (4.7)	2.12 (6.9)	1.91 (6.3)	2.70 (8.9)	2.54 (8.3)	4.06 (13.3)	4.00 (13.1)	6.11 (20.1)	5.96 (19.5)	9.59 (31.5)	0.87 (2.9)
RW930L	1.52 (60″)	1.05 (3.5)	1.32 (4.3)	1.75 (5.7)	2.55 (8.4)	2.31 (7.6)	3.26 (10.7)	3.07 (10.1)	4.89 (16.0)	4.83 (15.8)	7.36 (24.2)	7.21 (23.6)	11.57 (31.5)	1.06 (3.5)
(16:10	1.78 (70″)	1.23 (4.0)	1.54 (5.1)	2.05 (6.7)	2.98 (9.8)	2.71 (8.9)	3.81 (12.5)	3.59 (11.8)	5.72 (18.8)	5.65 (18.5)	8.61 (28.3)	8.46 (27.8)	13.55 (44.5)	1.24 (4.1)
aspect ratio)	2.03 (80″)	1.42 (4.7)	1.77 (5.8)	2.35 (7.7)	3.42 (11.2)	3.11 (10.2)	4.37 (14.3)	4.12 (13.5)	6.55 (21.5)	6.48 (21.3)	9.86 (32.3)	9.71 (31.9)	15.53 (51.0)	1.42 (4.7)
runo)	2.29 (90")	1.60 (5.3)	2.00 (6.5)	2.65 (8.7)	3.85 (12.6)	3.50 (11.5)	4.92 (16.2)	4.64 (15.2)	7.38 (24.2)	7.31 (24.0)	11.11 (36.4)	10.96 (36.0)	17.51 (57.4)	1.61 (5.3)
	2.54 (100")	1.78 (5.9)	2.22 (7.3)	2.95 (9.7)	4.28 (14.0)	3.90 (12.8)	5.48 (18.0)	5.17 (16.9)	8.20 (26.9)	8.13 (26.7)	12.36 (40.5)	12.21 (40.1)	19.49 (63.9)	1.79 (5.9)
	3.05 (120")	2.15 (7.1)	2.68 (8.8)	3.55 (11.6)	5.15 (16.9)	4.70 (15.4)	6.59 (21.6)	6.21 (20.4)	9.86 (32.4)	9.79 (32.1)	14.86 (48.7)	14.72 (48.3)	23.45 (76.9)	2.16 (7.1)
	3.81 (150")	2.70 (8.9)	3.36 (11.0) 4.49 (14.7)	4.45 (14.6) 5.95 (19.5)	6.45 (21.2)	5.89 (19.3)	8.25 (27.1) 11.03 (36.2)	7.79 (25.5)	12.35 (40.5) 16.49 (54.1)	12.27 (40.2) 16.40 (53.8)	18.61 (61.0) 24.85 (81.5)	18.47 (60.6) 24.73 (81.1)	29.38 (96.4) 39.28 (128.9)	2.71 (8.9)
	5.08 (200") 6.35 (250")	3.61 (11.8)	4.49 (14.7) 5.62 (18.4)	7.45 (24.5)	8.61 (28.3) 10.78 (35.4)	7.88 (25.8) 9.86 (32.4)	13.81 (45.3)	10.41 (34.2) 13.03 (42.8)	16.49 (54.1) 20.63 (67.7)	20.53 (67.4)	31.10 (102.0)	24.73 (81.1) 30.99 (101.7)	49.17 (161.3)	3.63 (11.9)
	7.62 (300 [°])	4.53 (14.9) 5.45 (17.9)	6.76 (22.2)	8.95 (29.4)	12.95 (42.5)	11.85 (38.9)	16.58 (54.4)	15.65 (51.4)	20.03 (07.7)	20.53 (67.4) 24.67 (80.9)	37.34 (122.5)	37.25 (122.2)	59.06 (193.8)	-
	10.16 (400")	7.28 (23.9)	9.02 (29.6)	11.96 (39.2)	17.28 (56.7)	15.83 (51.9)	22.13 (72.6)	20.90 (68.6)	33.05 (108.4)	32.94 (108.1)	49.84 (163.5)	49.76 (163.3)	78.85 (258.7)	-
	12.70 (500")	9.11 (29.9)	11.29 (37.0)	14.96 (49.1)	21.61 (70.9)	19.80 (65.0)	27.68 (90.8)	26.14 (85.8)	41.34 (135.6)	41.20 (135.2)	62.33 (204.5)	62.28 (204.3)	98.64 (323.6)	_
	15.24 (600)	10.94 (35.9)	13.55 (44.5)	17.96 (58.9)	25.94 (85.1)	23.78 (78.0)	33.23 (109.0)	31.39 (103.0)	49.62 (162.8)	49.47 (162.3)	74.82 (245.5)	74.80 (245.4)	118.42 (388.5)	_
PT-RX110/	1.27 (50″)	0.81 (2.7)	1.01 (3.3)	1.34 (4.4)	1.97 (6.5)	1.78 (5.8)	2.51 (8.2)	2.36 (7.7)	3.78 (12.4)	3.71 (12.2)	5.68 (18.6)	5.52 (18.1)	8.91 (29.2)	0.81 (2.7)
RX110L	1.52 (60")	0.98 (3.2)	1.22 (4.0)	1.62 (5.3)	2.37 (7.8)	2.15 (7.1)	3.03 (9.9)	2.85 (9.4)	4.55 (14.9)	4.48 (14.7)	6.84 (22.4)	6.69 (21.9)	10.75 (35.3)	0.98 (3.2)
(4:3	1.78 (70″)	1.15 (3.8)	1.43 (4.7)	1.90 (6.2)	2.77 (9.1)	2.52 (8.3)	3.55 (11.6)	3.34 (11.0)	5.32 (17.5)	5.25 (17.2)	8.01 (26.3)	7.86 (25.8)	12.60 (41.3)	1.15 (3.8)
aspect	2.03 (80")	1.32 (4.3)	1.64 (5.4)	2.18 (7.2)	3.18 (10.4)	2.89 (9.5)	4.06 (13.3)	3.83 (12.6)	6.09 (20.0)	6.02 (19.8)	9.17 (30.1)	9.02 (29.6)	14.44 (47.4)	1.32 (4.3)
ratio)	2.29 (90")	1.49 (4.9)	1.85 (6.1)	2.46 (8.1)	3.58 (11.7)	3.26 (10.7)	4.58 (15.0)	4.31 (14.1)	6.86 (22.5)	6.79 (22.3)	10.33 (33.9)	10.19 (33.4)	16.28 (53.4)	1.49 (4.9)
	2.54 (100")	1.66 (5.4)	2.07 (6.8)	2.74 (9.0)	3.98 (13.1)	3.63 (11.9)	5.10 (16.7)	4.80 (15.7)	7.63 (25.0)	7.56 (24.8)	11.50 (37.7)	11.35 (37.2)	18.12 (59.4)	1.66 (5.4)
	3.05 (120")	2.00 (6.6)	2.49 (8.2)	3.30 (10.8)	4.79 (15.7)	4.37 (14.3)	6.13 (20.1)	5.78 (19.0)	9.17 (30.1)	9.10 (29.9)	13.82 (45.3)	13.68 (44.9)	21.81 (71.6)	2.01 (6.6)
	3.81 (150")	2.51 (8.2)	3.12 (10.2)	4.14 (13.6)	6.00 (19.7)	5.48 (18.0)	7.68 (25.2)	7.24 (23.8)	11.49 (37.7)	11.41 (37.4)	17.31 (56.8)	17.18 (56.4)	27.33 (89.7)	2.52 (8.3)
	5.08 (200")	3.36 (11.0)	4.18 (13.7)	5.54 (18.2)	8.02 (26.3)	7.33 (24.0)	10.26 (33.7)	9.69 (31.8)	15.34 (50.3)	15.26 (50.1)	23.13 (75.9)	23.00 (75.5)	36.54 (119.9)	3.38 (11.1)
	6.35 (250")	4.21 (13.8)	5.23 (17.2)	6.94 (22.8)	10.03 (32.9)	9.18 (30.1)	12.85 (42.2)	12.13 (39.8)	19.20 (63.0)	19.11 (62.7)	28.94 (94.9)	28.83 (94.6)	45.75 (150.1)	-
	7.62 (300″)	5.07 (16.6)	6.29 (20.6)	8.33 (27.3)	12.05 (39.5)	11.03 (36.2)	15.43 (50.6)	14.57 (47.8)	23.06 (75.7)	22.96 (75.3)	34.76 (114.0)	34.66 (113.7)	54.97 (180.3)	-
	10.16 (400")	6.77 (22.2)	8.40 (27.6)	11.13 (36.5)	16.08 (52.8)	14.73 (48.3)	20.60 (67.6)	19.45 (63.8)	30.77 (101.0)	30.65 (100.6)	46.39 (152.2)	46.31 (151.9)	73.39 (240.8)	-
	12.70 (500")	8.48 (27.8)	10.51 (34.5)	13.92 (45.7)	20.12 (66.0)	18.43 (60.5)	25.77 (84.5)	24.33 (79.8)	38.48 (126.2)	38.35 (125.8)	85.02 (190.4)	57.96 (190.2)	91.81 (301.2)	-
	15.24 (600")	10.18 (33.4)	12.62 (41.4)	16.72 (54.9)	24.15 (79.2)	22.13 (72.6)	30.94 (101.5)	29.22 (95.9)	46.19 (151.5)	46.05 (151.1)	69.65 (228.5)	69.61 (228.4)	110.23 (361.6)	-

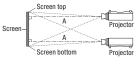
						Unit: meters (feet
Screen size			EI-DLEU3 Proiection distanc	0 Ultra-Short-Thr	Close-up syste	m dimensions
(diagonal)		(A)	(B)	(C)	(D)	(E)
PT-RZ970/	2.54 (100")	0.82 (2.7)	0.65 (2.1)	0.12 (0.4)	0.43 (1.4)	0.63 (2.1)
RZ970L	3.05 (120")	0.98 (3.2)	0.82 (2.7)	0.28 (0.9)	0.53 (1.7)	0.73 (2.4)
(16:10	3.81 (150")	1.23 (4.0)	1.06 (3.5)	0.52 (1.7)	0.68 (2.2)	0.88 (2.9)
aspect	5.08 (200")	1.63 (5.4)	1.47 (4.8)	0.93 (3.0)	0.93 (3.1)	1.13 (3.7)
ratio)	6.35 (250 [~])	2.04 (6.7)	1.87 (6.1)	1.34 (4.4)	1.18 (3.9)	1.38 (4.5)
	7.62 (300")	2.45 (8.0)	2.28 (7.5)	1.74 (5.7)	1.43 (4.7)	1.63 (5.4)
	8.89 (350")	2.85 (9.4)	2.69 (8.8)	2.15 (7.1)	1.69 (5.5)	1.89 (6.2)
PT-RW930/	2.54 (100")	0.86 (2.8)	0.69 (2.3)	0.16 (0.5)	0.59 (1.9)	0.79 (2.6)
RW930L	3.05 (120")	1.03 (3.4)	0.86 (2.8)	0.33 (1.1)	0.72 (2.4)	0.92 (3.0)
(16:10	3.81 (150")	1.29 (4.2)	1.12 (3.7)	0.58 (1.9)	0.92 (3.0)	1.12 (3.7)
aspect	5.08 (200~)	1.71 (5.6)	1.55 (5.1)	1.01 (3.3)	1.25 (4.1)	1.45 (4.7)
ratio)	6.35 (250")	2.14 (7.0)	1.98 (6.5)	1.44 (4.7)	1.58 (5.2)	1.78 (5.8)
	7.62 (300")	2.57 (8.4)	2.40 (7.9)	1.86 (6.1)	1.91 (6.3)	2.11 (6.9)
	8.89 (350")	3.00 (9.8)	2.83 (9.3)	2.29 (7.5)	2.24 (7.3)	2.44 (8.0)
PT-RX110/	2.54 (100")	0.80 (2.6)	0.68 (2.2)	0.10 (0.3)	0.41 (1.3)	0.71 (2.3)
RX110L	3.05 (120")	0.96 (3.1)	0.85 (2.8)	0.26 (0.9)	0.50 (1.6)	0.83 (2.7)
(4:3	3.81 (150")	1.20 (3.9)	1.10 (3.6)	0.49 (1.6)	0.65 (2.1)	1.00 (3.3)
aspect	5.08 (200~)	1.60 (5.2)	1.52 (5.0)	0.89 (2.9)	0.88 (2.9)	1.29 (4.2)
ratio)	6.35 (250")	1.99 (6.5)	1.94 (6.4)	1.29 (4.2)	1.12 (3.7)	1.58 (5.2)
	7.62 (300")	2.39 (7.8)	2.36 (7.7)	1.69 (5.5)	1.36 (4.5)	1.87 (6.1)
	8.89 (350")	2.79 (9.2)	2.78 (9.1)	2.09 (6.9)	1.60 (5.2)	2.16 (7.1)

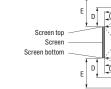
*1 Optical axis shift cannot be operated when using ET-DLE055. *2 Optical axis is fixed to center when using ET-DLE030.

Dimension Definitions

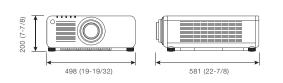
If using lens other than the ET-DLE030

If using the ET-DLE030





Dimensions



unit: mm (inches)

Unit: meters (feet)

Specifications

Model		PT-RZ970/RZ970L	PT-RW930/RW930L	PT-RX110/RX110L					
Power supply	1	AC 100–240 V, 50/60 Hz							
Power consu	mption	Normal: 1,050 W, Eco: 770 W, Long Life 1: 480 W, Long Life 2: 440 W, Picture Mode: Standard, Dynamic Contrast: 2), 85 W with Quick Startup M	Long Life 3: 390 W, Shutter (closed): 85 W (Operating temperature 2 Mode set to ON, 0.2 W with Standby Mode set to ECO, 3 W with Stan	25 °C [77 °F], altitude 700 m [2,297 ft], IEC62087: 2008 Broadcast Content, dby Mode set to Normal					
DLP™ chip	Panel size	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)	16.5 mm (0.65 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 x 1200) pixels	1,024,000 (1280 x 800) pixels	786,432 (1024 x 768) pixels					
_ens		PT-RZ970: Powered zoom (throw ratio 1.7–2.4:1), powered focus F 1.7–1.9, f 25.6–35.7 mm PT-RZ970L: Optional powered zoom/focus lenses	PT-RW930/RX110: Powered zoom (throw ratio 1.8–2.5:1), powered focus F 1.7–1.9, f 25.6–35.7 mm PT-RW930L/RX110L: Optional powered zoom/focus lenses						
Light source				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,							
Brightness	• ,	10,000 lm (Center)*1/9,400 lm*2		10,400 lm (Center)*1/10,000 lm*2					
•	mer uniformity*2	90 %							
Contrast*2		10,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)							
Resolution		1920 x 1200 pixels	1280 x 800 pixels	1024 x 768 pixels					
Scanning	SD-SDI	SMPTE ST 259 compliant, [YCBCR 4:2:2 10-bit] 525i (480i), 576i (625i)							
frequency	HD-SDI	SMPTE ST 292 compliant, [PGen 4:2:2 10-bit] 220 (750)(60p, 720 (750)/50p, 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/25p, 1080 (1125)/24p, 1080 (1125)/24sF, 1080 (1125)/30p		_					
	3G-SDI	SMPTE ST 424 compliant, [RGB 4:4:4 12-bit/10-bit] 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/25p, 1080 (1125)/24sF, 1080 (1125)/30p, 2K/24p, 2K/25p, 2K/30p, [YPBPA 4:2: 10-bit] 1080 (1125)/60p, 1080 (1125)/50p, 2K/44p, 2K/50p, 2K/60p		_					
	HDMI/DVI-D/DIGITAL LINK	480i (525) ^{1/3} , 576i (625) ^{1/3} , 480p (525), 576p (625p), 720 (750)/50p, 1080 (1125)/50p, 1080 (1125)/50i, 1080 (1125)/25p, 1080 (1125)/24p, 1080 (1125)/24sF, 1080 (1125)/30p, 1080 (1125)/60p, 1080 (1125)/50p, VGA (640 x 480)–WUXGA ^{*4} (1920 x 1200) (compatible with non-interfaced signals only), dot clock: 25–162 MHz							
	RGB	Troot (FLC) redy for A top movie (FLC) and the control of the cont							
		fH: 15.73 kHz, N: 59.9 Hz [480] (525)], fH: 15.63 kHz, N: 50 Hz [576i (625)], fH: 45.00 kHz, N: 60 Hz [720 (750)/60p], fH: 33.75 kHz, N: 60 Hz [1080 (1125)/50i], fH: 28.13 kHz, N: 50 Hz [1080 (1125)/50i], fH: 27.00 kHz, N: 24 Hz [1080 (1125)/50i], fH: 33.75 kHz, N: 30 Hz [1080 (1125)/30p], fH: 35.0 kHz, N: 50 Hz [720 (750)/60p], fH: 31.50 kHz, N: 59.9 Hz [480p (525)], fH: 31.25 kHz, N: 50 Hz [576p (625)], fH: 37.50 kHz, N: 50 Hz [720 (750)/50p], fH: 31.50 kHz, N: 40 Hz [1080 (1125)/20p], fH: 31.50 kHz, N: 50 Hz [576p (625)], fH: 37.50 kHz, N: 50 Hz [720 (750)/50p], fH: 33.75 kHz, N: 60 Hz [1080 (1125)/20p], fH: 37.50 kHz, N: 50 Hz [576p (625)], fH: 37.50 kHz, N: 50 Hz [576p (625)], fH: 37.50 kHz, N: 50 Hz [576p (625)], fH: 37.50 kHz, N: 50 Hz [1080 (1125)/60p], fH: 33.75 kHz, N: 50 Hz [1080 (1125)/60p], fH: 31.50 kHz, N: 50 Hz [1080 (1125)/60p], fH: 31.50 kHz, N: 50 Hz [1080 (1125)/60p], fH: 31.50 kHz, N: 50 Hz [1080 (1125)/60p], fH: 37.50 kHz, N: 50 Hz [1080 (1125)/60p], fH: 50 Hz [1080 (1125)/60p							
	YPBPr (YCBCr)	fV: 24 Hz [1080 (1125)/24p], fH: 33.75 kHz, fV: 30 Hz [1080 (1125)/30p],	fH: 56.25 kHz, fV: 50 Hz [1080 (1125)/50p], fH: 31.50 kHz, fV: 59.9 H	Hz [480p (525p)], fH: 31.25 kHz, fV: 50 Hz [576p (625p)], fH: 37.50 kHz,					
	YPBPR (YCBCR) Video/YC	fV: 24 Hz [1080 (1125)/24p], fH: 33.75 kHz, fV: 30 Hz [1080 (1125)/30p],	fH: 56.25 kHz, fV: 50 Hz [1080 (1125)/50p], fH: 31.50 kHz, fV: 59.9 H 28.13 kHz, fV: 25 Hz [1080 (1125)/25p], fH: 27.00 kHz, fV: 48 Hz [10	Hz [480p (525p)], fH: 31.25 kHz, fV: 50 Hz [576p (625p)], fH: 37.50 kHz,					
	 	fV: 24 Hz [1080 (1125)/24p], fH: 33.75 kHz, fV: 30 Hz [1080 (1125)/30p], fV: 50 Hz [720 (750)/50p], fH: 33.75 kHz, fV: 60 Hz [1080 (1125)/60i], fH:	fH: 56.25 kHz, fV: 50 Hz [1080 (1125)/50p], fH: 31.50 kHz, fV: 59.9 H 28.13 kHz, fV: 25 Hz [1080 (1125)/25p], fH: 27.00 kHz, fV: 48 Hz [10	Hz [480p (525p)], fH: 31.25 kHz, fV: 50 Hz [576p (625p)], fH: 37.50 kHz,					
avia abift*5	Video/YC	 125/24 Hz [1080 (1125)/24p], Ht: 33.75 kHz, fV: 30 Hz [1080 (1125)/30p], N: 50 Hz [720 (750)/50p], Ht: 33.75 kHz, N: 60 Hz [1080 (1125)/60l], Ht: H: 15.73 kHz, N: 59.9 Hz (NTSC/NTSC4.43/PAL-M/PAL60), fH: 15.63 kHz 	fH: 56.25 kHz, fV: 50 Hz [1080 (1125)/50p], fH: 31.50 kHz, fV: 59.9 H 28.13 kHz, fV: 25 Hz [1080 (1125)/25p], fH: 27.00 kHz, fV: 48 Hz [10 Hz, fV: 50 Hz (PAL/PAL-N/SECAM)	4z [480p (525p)], H [*] : 31.25 kHz, N [,] : 50 Hz [576p (625p)], H [*] : 37.50 kHz, 80 (1125)/24sF], H [*] : 67.50 kHz, N [,] : 60 Hz [1080 (1125)/60p]					
Optical axis shift* ⁵ Keystone corr	Video/YC Vertical (from center of screen) Horizontal (from center of screen)	№ 24 Hz [1080 (1125)/24p], fH: 33.75 kHz, fV: 30 Hz [1080 (1125)/30p], N: 50 Hz [720 (750)/50p], fH: 33.75 kHz, fV: 60 Hz [1080 (1125)/60], fH: fH: 15.73 kHz, fV: 59.9 Hz (NTSC/NTSC4.43/PAL-M/PAL60), fH: 15.63 kl +50 %, -16 % (powered)	H ¹ : 56.25 kHz, IV: 50 Hz [1080 (1125)/500), Ht: 31.50 kHz, IV: 59.9 F 28.13 kHz, IV: 25 Hz [1080 (1125)/25p], Ht: 27.00 kHz, IV: 48 Hz [10 Hz, IV: 50 Hz (PALPAL-IVSECAM) +60 %, -16 % (powered)	tz (480p (525p)), H: 31.25 kHz, N: 50 Hz (576p (625p)), H: 37.50 kHz, 80 (1125)/24sFJ, H: 67.50 kHz, IV: 60 Hz (1080 (1125)/60p) +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE0					
axis shift* ⁵ Keystone con Keystone con	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range	№ 24 Hz [1080 (1125)/24p], H: 33.75 KHz, №. 30 Hz [1080 (1125)/30p], № 50 Hz [720 (750)/50p], H: 33.75 KHz, №. 60 Hz [1080 (1125)/60], H: H: 15.73 KHz, № 59.9 Hz (NTSC/NTSC4.43/PAL-M/PAL60), H: 15.63 kH +50 %, -16 % (powered) +30 %, -10 % (+28 %, -10 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, ±5 ° with ET-DLE085/DLE055, ±6 ° with ET-DLE085/DLE055/DLE055, ±6 ° with ET-DLE085/DLE05/	H ¹ : 56.25 kHz, IV: 50 Hz [1080 (1125)/500), Ht: 31.50 kHz, IV: 59.9 F 28.13 kHz, IV: 25 Hz [1080 (1125)/25p], Ht: 27.00 kHz, IV: 48 Hz [10 Hz, IV: 50 Hz (PALPAL-IVSECAM) +60 %, -16 % (powered)	4z [480p (525p]), fH: 31.25 kHz, fV: 50 Hz [576p (625p]), fH: 37.50 kHz, 80 (1125)/24sF], fH: 67.50 kHz, fV: 60 Hz [1080 (1125)/60p]					
axis shift* ⁵ Keystone con Keystone con with optional	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range	M: 24 Hz [1080 (1125)/24p], H: 33.75 kHz, N: 30 Hz [1080 (1125)/30p], N: 50 Hz [720 (750)/50p], H: 33.75 kHz, N: 60 Hz [1080 (1125)/60n], H: H: 15.73 kHz, N: 59.9 Hz (NTSC/NTSC4.43/PAL-M/PAL60), H: 15.63 kl +50 %, -16 % (powered) +30 %, -11 % (+28 %, -10 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE085/DLE055/DLE055). Vertical: ±45 ° (±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE085/DLE055/DLE055). Vertical: ±45 ° (±40 ° (±150/DLE250/supplied lens, ±22 ° with ET-DLE085/DLE055, horizontal: ±40 ° (±15 ° with ET-DLE05/DLE055).	H ¹ : 56.25 kHz, IV: 50 Hz [1080 (1125)/500), Ht: 31.50 kHz, IV: 59.9 F 28.13 kHz, IV: 25 Hz [1080 (1125)/25p], Ht: 27.00 kHz, IV: 48 Hz [10 Hz, IV: 50 Hz (PALPAL-IVSECAM) +60 %, -16 % (powered)	tz (480p (525p)), H: 31.25 kHz, N: 50 Hz (576p (625p)), H: 37.50 kHz, 80 (1125)/24sFJ, H: 67.50 kHz, IV: 60 Hz (1080 (1125)/60p) +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE0					
xis shift*5 Keystone com Keystone com with optional Installation	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range	M: 24 Hz [1080 (1125)/24p], H: 33.75 kHz, N: 30 Hz [1080 (1125)/30p], N: 50 Hz [720 (750)/50p], H: 33.75 kHz, N: 60 Hz [1080 (1125)/60], H: H: 15.73 kHz, N: 59.9 Hz (NTSC/NTSC4.43/PAL-M/PAL60), H: 15.63 kl +50 %, -16 % (powered) +33 %, -16 % (powered) +33 %, -16 % (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, ±5 ° with ET-DLE085/DLE055/DLE030) Vertical: ±40 ° (±22 ° with ET-DLE150/DLE250/supplied lens, ±22 ° with FT-DLE085/DLE055, horizonta: ±40 ° (±5 ° with ET-DLE050/DLE050), Le050, Le0	H ¹ : 56.25 kHz, IV: 50 Hz [1080 (1125)/500), Ht: 31.50 kHz, IV: 59.9 F 28.13 kHz, IV: 25 Hz [1080 (1125)/25p], Ht: 27.00 kHz, IV: 48 Hz [10 Hz, IV: 50 Hz (PALPAL-IVSECAM) +60 %, -16 % (powered)	tz (480p (525p)), H: 31.25 kHz, N: 50 Hz (576p (625p)), H: 37.50 kHz, 80 (1125)/24sF), H: 67.50 kHz, N: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
xis shift*5 Keystone com Keystone com with optional Installation	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range upgrade Kit ET-UK20 SDI IN HDMI IN	M: 24 Hz [1080 (1125)/24p], H: 33 75 kHz, N: 30 Hz [1080 (1125)/30p], N: 50 Hz [720 (750)/50p], H: 33 75 kHz, N: 60 Hz [1080 (1125)/60], H: H: 15.73 kHz, N: 59.9 Hz (NTSC/NTSC4.43/PAL-M/PAL60), H: 15.63 kl +50 %, -16 % (powered) +33 %, -16 % (powered) Vertical: ±40 ° (±22 ° with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, ±5 ° with ET-DLE085/DLE055/DLE030) Vertical: ±45 ° (±40 ° with ET-DLE150/DLE26/Synplied lens, ±22 ° with ET-DLE055/DLE055), horizontal: ±40 ° (±5 ° with ET-DLE055/DLE050), Up to a total of 55 ° during simultaneous horizontal and vertical correction. Ceiling/floor, front/rear, free 360-degree installation	H ¹ : 56.25 kHz, IV: 50 Hz [1080 (1125)/500), Ht: 31.50 kHz, IV: 59.9 F 28.13 kHz, IV: 25 Hz [1080 (1125)/25p], Ht: 27.00 kHz, IV: 48 Hz [10 Hz, IV: 50 Hz (PALPAL-IVSECAM) +60 %, -16 % (powered)	tz (480p (525p)), H: 31.25 kHz, N: 50 Hz (576p (625p)), H: 37.50 kHz, 80 (1125)/24sF), H: 67.50 kHz, N: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
xis shift*5 Keystone com Keystone com with optional Installation	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range upgrade Kit ET-UK20 SDI IN	$ \begin{array}{l} \text{M: } 24\text{k} [1080(1125)/24p], \text{H: } 33.75\text{kHz}, \text{N: } 30\text{Hz}[1080(1125)/30p], \text{N: } 50\text{Hz}[720(750)/50p], \text{H: } 33.75\text{kHz}, \text{N: } 60\text{Hz}[1080(1125)/60n], \text{H: } \text{H: } 15.73\text{kHz}, \text{N: } 59.9\text{Hz}(\text{NTSC/NTSC4},43/\text{PAL-M/PAL60}), \text{H: } 15.63\text{kl}\text{+} 50\%, -16\%(\text{powered})\\ \hline +30\%, -10\%(+28\%, -10\%\text{with}\text{ET-DLE085})(\text{powered})\\ \text{Vertical: } \pm40^{\circ}(\pm22^{\circ}\text{with}\text{ET-DLE085})(\text{LE055}, \pm5^{\circ}\text{with}\text{ET-DLE085/DLE055})\\ \text{Vertical: } \pm45^{\circ}(\pm40^{\circ}\text{with}\text{ET-DLE085/DLE055}, \pm22^{\circ}\text{with}\text{ET-DLE085/DLE055})\\ \text{Vertical: } \pm45^{\circ}(\pm40^{\circ}\text{with}\text{ET-DLE160/DLE250/supplied lens, } \pm22^{\circ}\text{with}\text{ET-DLE085/DLE055},\\ \text{Up to a total of } 55^{\circ}\text{during simultaneous horizontal and vertical correction.}\\ \text{Ceiling/floor, front/rear, free 360-degree installation}\\ \text{BNC} \times 1: 3G/\text{HD/SD-SDI input} \end{array}$	H ¹ : 56.25 kHz, IV: 50 Hz [1080 (1125)/500), ¹ H: 31.50 kHz, IV: 59.9 H 28.13 kHz, IV: 25 Hz [1080 (1125)/250), ¹ H: 27.00 kHz, IV: 48 Hz [10 Hz, IV: 50 Hz (PALPAL-IVSECAM) +60 %, -16 % (powered) LE055/DLE030),	tz (480p (525p)), Ht 31.25 kHz, IV: 50 Hz (576p (625p)), Ht 37.50 kHz, 80 (1125)/24sF), Ht: 67.50 kHz, IV: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
xis shift*5 Keystone com Keystone com with optional Installation	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range upgrade Kit ET-UK20 SDI IN HDMI IN	$\begin{array}{l} \text{M: } 24\text{k} [1080(1125)/24p], \text{H: } 33.75\text{kHz}, \text{N: } 30\text{Hz}[1080(1125)/30p], \text{N: } 50\text{Hz}[720(750)/50p], \text{H: } 33.75\text{kHz}, \text{N: } 60\text{Hz}[1080(1125)/60n], \text{H: } \text{H: } 15.73\text{kHz}, \text{N: } 59.9\text{Hz}(\text{NTSC/NTSC4},43/\text{PAL-M/PAL60}), \text{H: } 15.63\text{kd}\text{+} 50\%, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	H ¹ : 56.25 kHz, IV: 50 Hz [1080 (1125)/500), ¹ H: 31.50 kHz, IV: 59.9 H 28.13 kHz, IV: 25 Hz [1080 (1125)/250), ¹ H: 27.00 kHz, IV: 48 Hz [10 Hz, IV: 50 Hz (PALPAL-IVSECAM) +60 %, -16 % (powered) LE055/DLE030),	tz (480p (525p)), Ht 31.25 kHz, IV: 50 Hz (576p (625p)), Ht 37.50 kHz, 80 (1125)/24sF), Ht: 67.50 kHz, IV: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
xis shift*5 Keystone com Keystone com with optional Installation	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range Upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN	$\label{eq:2.1} \begin{array}{l} \text{M: } 24\text{k} [1080(1125)/24p], \text{H: } 33.75\text{kHz}, \text{N: } 30\text{Hz}[1080(1125)/30p], \text{N: } 50\text{Hz}[720(750)/50p], \text{H: } 33.75\text{kHz}, \text{N: } 60\text{Hz}[1080(1125)/60n], \text{H: } \text{H: } 15.73\text{kHz}, \text{N: } 59.9\text{Hz}(\text{NTSCA}/\text{L3}/\text{PAL-M/PAL60}), \text{H: } 15.63\text{kl}\text{+} 50\%, -16\%(\text{powered})\\ +30\%, -10\%(+28\%, -10\%\text{with}\text{ET-DLE085})(\text{powered})\\ \text{Vertical: } \pm40^{\circ}\text{(c4.70^{\circ}\text{with}\text{ET-DLE085}/\text{DLE055}, \pm5^{\circ}\text{with}\text{ET-DLE085/DLE055}/\text{DU}/\text{D}/\text{D}/\text{D}/\text{D}/\text{D}/\text{D}/\text{D}/D$	H ¹ : 56.25 kHz, IV: 50 Hz [1080 (1125)/500), ¹ H: 31.50 kHz, IV: 59.9 H 28.13 kHz, IV: 25 Hz [1080 (1125)/250), ¹ H: 27.00 kHz, IV: 48 Hz [10 Hz, IV: 50 Hz (PALPAL-IVSECAM) +60 %, -16 % (powered) LE055/DLE030),	tz (480p (525p)), H: 31.25 kHz, N: 50 Hz (576p (625p)), H: 37.50 kHz, 80 (1125)/24sF), H: 67.50 kHz, N: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
xis shift*5 Keystone com Keystone com with optional Installation	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range Upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN RGB 1 IN	$\label{eq:2.1} \begin{array}{l} \text{M: } 24\text{hz}\ [1080\ (1125)/24p], \text{H: } 33.75\text{kHz}, \text{N: } 30\text{Hz}\ [1080\ (1125)/260], \text{H: } 33.75\text{kHz}, \text{N: } 30\text{Hz}\ [1080\ (1125)/260], \text{H: } \\ \text{H: } 15.73\text{kHz}, \text{N: } 59.9\text{Hz}\ (\text{NTSC/NTSC4.43/PAL-M/PAL60}), \text{H: } 15.63\text{kl} \\ +50\%, -16\%(\text{powered}) \\ +30\%, -10\%(+28\%, -10\%\text{with}\ \text{ET-DLE085})\ (\text{powered}) \\ \text{Vertical: } \pm40^{\circ}(\pm22\%\text{with}\ \text{ET-DLE085/DLE055}, \pm5^{\circ}\text{with}\ \text{ET-DLE085/DLE055}) \\ \text{Vertical: } \pm45^{\circ}(\text{Cannot be operated with}\ \text{ET-DLE085/DLE055}) \\ \text{Vertical: } \pm45^{\circ}(\text{Cannot transmittaneous horizontal and vertical correction.} \\ \\ \text{Celling/floor, front/rear, free 360-degree installation} \\ \text{BNC } \times 1: 3G/\text{HD/SD-SD} \text{ input} \\ \text{HDMI 19-pin } \times 1 \ (\text{Deep Color, compatible with HDCP}) \\ \\ \text{DV-D 24-pin } \times 1 \ (\text{DVI 1.0 compliant, compatible with HDCP, compatible} \\ \text{RGB } \times 1 \ (\text{BNC} \times 5): \text{RGB/PBPR/C8CR/YCV/IDE0} \\ \end{array}$	H ⁺ :56.25 kHz, N ⁺ : 50 + E (1080 (1125)/S00), [†] H: 31.50 kHz, N ⁺ : 59.9 + 28.13 kHz, N ⁺ : 25 Hz [1080 (1125)/25[0], [†] H: 27.00 kHz, N ⁺ : 48 Hz [10 Hz, N ⁺ : 50 Hz (PALPAL-N/SECAM) +60 %, -16 % (powered) LE055/DLE030), LE055/DLE030),	tz (480p (525p)), H: 31.25 kHz, N: 50 Hz (576p (625p)), H: 37.50 kHz, 80 (1125)/24sF), H: 67.50 kHz, N: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
xis shift*5 Keystone com Keystone com with optional Installation	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN RGB 1 IN RGB 2 IN	$\label{eq:2.1} \begin{array}{l} \text{M: } 24\text{hz}\ [1080\ (1125)/24p], \text{H: } 33.75\text{kHz}\ (N: 30\text{Hz}\ [1080\ (1125)/260], \text{H: } 15.73\text{kHz}\ (N: 50\text{Hz}\ [1080\ (1125)/600], \text{H: } 16.73\text{kHz}\ (N: 50\text{Hz}\ [1080\ (1125)/600], \text{H: } 16.73\text{kHz}\ (N: 59.9\text{Hz}\ (NTSC/NTSC4.43/PAL-M/PAL60), \text{H: } 15.63\text{kH}\ +50\%, -10\%\ (+28\%, -10\%\ \text{with}\ \text{ET-DLE085/0}\ (powered)\\ +30\%, -10\%\ (+28\%, -10\%\ \text{with}\ \text{ET-DLE085/0}\ (powered)\\ \text{Vertical: } \pm40^{\circ}\ (\pm22^{\circ}\ \text{with}\ \text{ET-DLE085/0}\ (DE055, +5^{\circ}\ \text{with}\ \text{ET-DLE085/0}\ (DE055, -16\text{S0}\ \text{OLE05})\ (portical: \pm45^{\circ}\ (4.0^{\circ}\ \text{with}\ \text{ET-DLE085/0}\ (DE055, \text{WID}\ \text{ET-DLE085/0}\ (DE055)\ (DE0555)\ (DE0555)\ (DE055)\ (DE055)\ (DE055)\ (D$	H ⁺ :56.25 kHz, N ⁺ : 50 Hz [1080 (1125)/S00], [†] H: 31.50 kHz, N ⁺ : 59.9 H 28.13 kHz, N ⁺ : 25 Hz [1080 (1125)/25[0], [†] H: 27.00 kHz, N ⁺ : 48 Hz [10 Hz, N ⁺ : 50 Hz (PAL/PAL-N/SECAM) +60 %, -16 % (powered) LE055/DLE030), LE055/DLE030), 	tz (480p (525p)), H: 31.25 kHz, N: 50 Hz (576p (625p)), H: 37.50 kHz, 80 (1125)/24sF), H: 67.50 kHz, N: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
xis shift*5 Keystone com Keystone com with optional Installation	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN RGB 1 IN RGB 2 IN SERIAL/MULTI PROJECTOR SYNC IN	$\label{eq:constraints} \begin{array}{l} \text{W: } 24 \ \text{k} \left[1080 \ (1125)/24p \right], \text{H: } 33.75 \ \text{kH}_2, \text{W: } 30 \ \text{H}_2 \ (1080 \ (1125)/260), \text{H: } 15.73 \ \text{kH}_2, \text{W: } 50 \ \text{H}_2 \ (1080 \ (1125)/601), \text{H: } 15.73 \ \text{kH}_2, \text{W: } 50 \ \text{H}_2 \ (1080 \ (1125)/601), \text{H: } 15.73 \ \text{kH}_2, \text{W: } 50 \ \text{H}_2 \ (1080 \ (1125)/601), \text{H: } 15.73 \ \text{kH}_2, \text{W: } 50 \ \text{M}_2 \ (1080 \ (1125)/601), \text{H: } 15.73 \ \text{kH}_2, \text{W: } 50 \ \text{M}_2 \ (1080 \ (1125)/601), \text{H: } 15.73 \ \text{kH}_2, \text{W: } 50 \ \text{M}_2 \ (1080 \ (1125)/601), \text{H: } 15.73 \ \text{kH}_2, \text{W: } 50 \ \text{M}_2 \ $	H ⁺ :56.25 kHz, N ⁺ : 50 Hz [1080 (1125)/S00], [†] H: 31.50 kHz, N ⁺ : 59.9 H 28.13 kHz, N ⁺ : 25 Hz [1080 (1125)/25[0], [†] H: 27.00 kHz, N ⁺ : 48 Hz [10 Hz, N ⁺ : 50 Hz (PAL/PAL-N/SECAM) +60 %, -16 % (powered) LE055/DLE030), LE055/DLE030), 	tz (480p (525p)), Ht 31.25 kHz, IV: 50 Hz (576p (625p)), Ht 37.50 kHz, 80 (1125)/24sF), Ht: 67.50 kHz, IV: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
xis shift*5 Keystone com Keystone com with optional Installation	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range upgrade Kit ET-UK20 SDJ IN HDMI IN DVI-D IN RGB 2 IN SERIAL/MULT PROJECTOR SYNC OUT	$\label{eq:constraints} \begin{array}{l} \text{W:} 24 \text{k}_2 (1080 (1125)/24p], \text{H:} 33.75 \text{kH}_2 \text{W:} 30 \text{H}_2 (1080 (1125)/260), \text{H:} 15.75 \text{kH}_2 \text{W:} 60 \text{k}_2 (1080 (1125)/60), \text{H:} 15.75 \text{kH}_2 \text{W:} 60 \text{k}_2 (1080 (1125)/60), \text{H:} 15.63 \text{k}_2 \text{k}_2 \text{W:} 15.75 \text{kH}_2 \text{W:} 60 \text{k}_2 (1080 (1125)/60), \text{H:} 15.63 \text{k}_2 \text{k}_2 \text{With} \text{ET-DLE085/DLE055}, \text{howered} \text{Wertical:} \pm 40 ^{\circ} \text{(e2.2 ^{\circ} \text{with} \text{ET-DLE085/DLE055}, \text{howered} \text{Wertical:} \pm 45 ^{\circ} (\pm 40 ^{\circ} \text{with} \text{ET-DLE085/DLE055}, \text{howered} \text{Vertical:} \pm 45 ^{\circ} (\pm 40 ^{\circ} \text{with} \text{ET-DLE085/DLE055}, \text{Howered} \text{Vertical:} \pm 45 ^{\circ} (\pm 40 ^{\circ} \text{with} \text{ET-DLE085/DLE055}, \text{Howered} \text{Vertical:} \pm 45 ^{\circ} (\pm 40 ^{\circ} \text{with} \text{ET-DLE085/DLE055}, \text{Howered} \text{With} \text{ET-DLE085/DLE055}, \text{DLE055/DLE055}, \text{Using} \text{Howered} \text{With} \text{ET-DLE085/DLE055}, \text{Using} \text{Howered} \text{With} \text{ET-DLE085/DLE055}, \text{Using} \text{Howered} \text{With} \text{ET-DLE085/DLE055}, \text{Using} \text{Howered} \text{With} \text{ET-DLE085/DLE055}, \text{Using} \text{Howered} \text{Howered} \text{With} \text{ET-DLE085/DLE055}, \text{Using} \text{Howered} \text{Howered} $	H ⁺ :56.25 kHz, N ⁺ : 50 Hz [1080 (1125)/S00], [†] H: 31.50 kHz, N ⁺ : 59.9 H 28.13 kHz, N ⁺ : 25 Hz [1080 (1125)/25[0], [†] H: 27.00 kHz, N ⁺ : 48 Hz [10 Hz, N ⁺ : 50 Hz (PAL/PAL-N/SECAM) +60 %, -16 % (powered) LE055/DLE030), LE055/DLE030), 	tz (480p (525p)), Ht 31.25 kHz, IV: 50 Hz (576p (625p)), Ht 37.50 kHz, 80 (1125)/24sF), Ht: 67.50 kHz, IV: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
xis shift*5 Keystone com Keystone com with optional Installation	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range Upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN RGB 2 IN SERIAL/MULT PROJECTOR SYNC IN SERIAL/MULT PROJECTOR SYNC OUT REMOTE 1 IN	$\label{eq:constraint} \begin{array}{l} \text{M: } 24 \ \text{hz} [1080 \ (1125)/24p], \text{H: } 33.75 \ \text{kHz}, \text{N: } 30 \ \text{Hz} [1080 \ (1125)/260], \text{H: } 15.75 \ \text{kHz}, \text{N: } 30 \ \text{Hz} [1080 \ (1125)/260], \text{H: } 15.75 \ \text{kHz}, \text{N: } 30 \ \text{Hz} [1080 \ (1125)/260], \text{H: } 15.75 \ \text{kHz}, \text{N: } 50 \ \text{Hz} [1080 \ (1125)/260], \text{H: } 15.75 \ \text{kHz}, \text{N: } 50 \ \text{Hz} [1080 \ (1125)/260], \text{H: } 15.63 \ \text{kl} \ +50 \ \text{\%}, \ -16 \ \text{\%} \ (\text{powered}) \ \text{with ET-DLE085} \ (\text{powered}) \ \text{Vertical: } \pm 40 \ \text{~(} \pm 248 \ \text{~(} \pm 10 \ \text{~with ET-DLE085} \ \text{(powered}) \ \text{Vertical: } \pm 45 \ \text{~(} \pm 40 \ \text{~with ET-DLE085} \ \text{(powered}) \ \text{Vertical: } \pm 15 \ \text{~(} \text{Canot be operated with ET-DLE085} \ \text{DLE085} \ DLE$	H ⁺ :56.25 kHz, N ⁺ : 50 Hz [1080 (1125)/S00], [†] H: 31.50 kHz, N ⁺ : 59.9 H 28.13 kHz, N ⁺ : 25 Hz [1080 (1125)/25[0], [†] H: 27.00 kHz, N ⁺ : 48 Hz [10 Hz, N ⁺ : 50 Hz (PAL/PAL-N/SECAM) +60 %, -16 % (powered) LE055/DLE030), LE055/DLE030), 	tz (480p (525p)), Ht 31.25 kHz, IV: 50 Hz (576p (625p)), Ht 37.50 kHz, 80 (1125)/24sF), Ht: 67.50 kHz, IV: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
xis shift*5 Keystone com Keystone com with optional Installation	Video/YC Vertical (from center of screen) Horizontal (from center of screen) Frection range Upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN RGB 1 IN RGB 2 IN SERAL/MULT PROJECTOR SYNC IN SERAL/MULT PROJECTOR SYNC OUT REMOTE 1 IN REMOTE 1 OUT	$\label{eq:constraints} \begin{array}{l} \text{W: } 24 \ \text{k}_1(1080 \ (1125)/24p], \ \text{H: } 33.75 \ \text{kH}_2, \ \text{W: } 30 \ \text{H}_2 \ (1080 \ (1125)/260), \ \text{H: } 15.73 \ \text{KH}_2, \ \text{W: } 50 \ \text{H}_2 \ (1080 \ (1125)/260), \ \text{H: } 15.73 \ \text{KH}_2, \ \text{W: } 50 \ \text{H}_2 \ (1080 \ (1125)/260), \ \text{H: } 15.63 \ \text{KH}_2 \ \text{W: } 50 \ \text{H}_2 \ \text{M: } 50 \ \text{Werdial: } 40 \ \text{Werdial: } 45 \ \text{(Canot be operated with ET-DLE085)} \ (\text{powered}) \ \text{Vertical: } 45 \ \text{(Canot be operated with ET-DLE085)} \ \text{LE0850} \ \text{LE0550} \ L$	H ⁺ : 56.25 kHz, IV: 50 Hz [1080 (1125)/S60], Ht: 31.50 kHz, IV: 59.9 H 28.13 kHz, IV: 25 Hz [1080 (1125)/250], Ht: 27.00 kHz, IV: 48 Hz [10 Hz, IV: 50 Hz (PALPAL-N/SECAM) +60 %, -16 % (powered) LE055/DLE030), LE055/DLE030), RS-232C compliant) rol	tz (480p (525p)), Ht 31.25 kHz, IV: 50 Hz (576p (625p)), Ht 37.50 kHz, 80 (1125)/24sF), Ht: 67.50 kHz, IV: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
axis shift*5 Keystone corr Keystone corr with optional Installation Terminals	Video/YC Vertical (from center of screen) Horizontal (from center of screen) Fection range Upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN RGB 1 IN RGB 2 IN SERIAL/MULT PROJECTOR SYNC OUT REMOTE 1 IN REMOTE 1 OUT REMOTE 1 OUT REMOTE 2 IN LAN/DIGITAL LINK	$\label{eq:constraints} \begin{array}{l} \text{W: } 24 \text{k}_2 (1080 (1125)/24p], \text{H: } 33.75 \text{kH}_2 \text{W: } 30 \text{H}_2 (1080 (1125)/260), \text{H: } 15.75 \text{kH}_2 \text{W: } 50 \text{H}_2 (1080 (1125)/60), \text{H: } 15.75 \text{kH}_2 \text{W: } 50 \text{H}_2 (1080 (1125)/60), \text{H: } 15.63 \text{kl} \\ +50 \%, -16 \% (powered) \\ +30 \%, -10 \% (+28 \%, -10 \% \text{with ET-DLE085} (powered) \\ \text{Vertical: } \pm 40 ^\circ \text{et}.22 ^\circ \text{with ET-DLE085} (powered) \\ \text{Vertical: } \pm 45 ^\circ (\text{Canot be operated with ET-DLE085) \text{LE085/DLE055} \text{DLE055} \text{DLE030} \\ \text{Vertical: } \pm 45 ^\circ (\text{Canot be operated with ET-DLE085/DLE055) \text{LE085/DLE055} \text{Ueros} \text{J}_2 \text{With ET-DLE085/DLE055} \text{Ueros} \text{J}_2 \text{With} \text{ET-DLE085/DLE055} \text{Ueros} \text{J}_2 \text{With} \text{HD}01 \text{Ueros} \text{J}_2 \text{J}_2 $	H ⁺ : 56.25 kHz, IV: 50 Hz [1080 (1125)/S60], Ht: 31.50 kHz, IV: 59.9 H 28.13 kHz, IV: 25 Hz [1080 (1125)/250], Ht: 27.00 kHz, IV: 48 Hz [10 Hz, IV: 50 Hz (PALPAL-N/SECAM) +60 %, -16 % (powered) LE055/DLE030), LE055/DLE030), RS-232C compliant) rol	tz (480p (525p)), Ht 31.25 kHz, IV: 50 Hz (576p (625p)), Ht 37.50 kHz, 80 (1125)/24sF), Ht: 67.50 kHz, IV: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
axis shift*5 Keystone corr with optional nstallation Ferminals	Video/YC Vertical (from center of screen) Horizontal (from center of screen) Horizontal (from center of screen) rection range Upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN RGB 1 IN RGB 2 IN SERIAL/MULTI PROJECTOR SYNC UIT REMOTE 1 IN REMOTE 1 OUT REMOTE 1 OUT REMOTE 2 IN LAN/DIGITAL LINK rials	$\label{eq:constraint} \begin{array}{l} \text{W: } 24 \text{k}_2 (1080 (1125)/24 p], \text{H: } 33.75 \text{kH}_2 \text{W: } 30 \text{H}_2 (1080 (1125)/260), \text{II}, \text{W: } 50 \text{H}_2 (720 (750)/50p], \text{H: } 33.75 \text{kH}_2 \text{W: } 60 \text{H}_2 (1080 (1125)/600), \text{II}, \text{H: } 15.73 \text{kH}_2 \text{W: } 50 \text{H}_2 (1080 (1125)/600), \text{II}, \text{H: } 15.63 \text{kl} \\ +50 \%, -16 \% (\text{powered}) \\ +30 \%, -10 \% (+28 \%, -10 \% \text{with ET-DLE085}) (\text{powered}) \\ \text{Vertical: } \pm 40 ^\circ (\pm 22 \text{~with ET-DLE085/DLE055, } \pm 5 ^\circ \text{with ET-DLE085/DLE055/DLE055/DLE055}) \\ \text{horizontal: } \pm 15 ^\circ (\text{Cannot be operated with ET-DLE085/DLE055/DLE055/DLE055}) \\ \text{Vertical: } \pm 45 ^\circ (\pm 40 ^\circ \text{with ET-DLE1602/DLE055/DLE055/DLE055) \\ \text{Up to a total of } 55 ^\circ \text{during simultaneous horizontal and vertical correction.} \\ \text{Ceiling/floor, front/rear, free } 360-degree installation \\ \text{BNC } \times 1.3 \text{G/HD/SD-SD} \text{input} \\ \text{HDMI } 19-\text{pin } 1 (\text{Deep Color, compatible with HDCP)} \\ \text{DV-D } 24-\text{pin } \times 1 (\text{DVI } 1.0 \text{compliant, compatible with HDCP, compatible \\ \text{RGB } \times 1 (\text{BNC } \times 5) \text{FGB/YPBP/YCaCR/YCVIDE0} \\ \text{D-sub HD } 15-\text{pin (female)} \times 1 \text{for contrast sync/shutter sync/Reternal control ()} \\ \text{D-sub -pin (male) } \times 1 \text{for contrast sync/shutter sync/Reternal control ()} \\ \text{M} 3 \times 1 \text{for wired remote control} \\ \text{M} 3 \times 1 \text{for inder denote control} \\ \text{M} 3 \times 1 \text{for inder denote control} \\ \text{N} = 1 \text{for network, DIGITAL LINK connection, 1008ase-TX, compatible} \\ \text{RD} = 1 \text{for network}, DIGITAL LINK connection, 1008ase-TX, compatible \ \text{M} 3 \text{M} = 1 \text{for some since control} \\ \text{M} = 1 \text{for matice since control} \\ \text{M} = 1 \text{for matice since control} \\ \text{M} = 1 \text{for metwork}, DIGITAL LINK connection, 1008ase-TX, compatible \ \text{M} = 1 \text{for matice since control} \\ \text{M} = 1 \text{for matice since control} \\ \text{M} = 1 \text{for metwork} \ \text{M} = 1 \text{for matice since control} \\ \text{M} = 1 \text{for metwork}, DIGITAL LINK connection, 1008ase-TX, co$	H ⁺ : 56.25 kHz, IV: 50 Hz [1080 (1125)/S00], fH: 31.50 kHz, IV: 48 Hz [10 28.13 kHz, IV: 25 Hz [1080 (1125)/250], fH: 27.00 kHz, IV: 48 Hz [10 Hz, IV: 50 Hz (PALPAL-IN/SECAM) +60 %, -16 % (powered) LE055/DLE030), LE055/DLE030), RS-232C compliant) rol le with Art-Net, PJLink™	tz (480p (525p)), Ht 31.25 kHz, IV: 50 Hz (576p (625p)), Ht 37.50 kHz, 80 (1125)/24sF), Ht: 67.50 kHz, IV: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
axis shift*5 Keystone con Keystone cor with optional Installation Terminals Cabinet mate Dimensions (1	Video/YC Vertical (from center of screen) Horizontal (from center of screen) Horizontal (from center of screen) rection range Upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN RGB 1 IN RGB 2 IN SERIAL/MULTI PROJECTOR SYNC UIT REMOTE 1 IN REMOTE 1 OUT REMOTE 1 OUT REMOTE 2 IN LAN/DIGITAL LINK rials	$\begin{split} & (Y: 24 k_2 [1080 (1125)/24p], IH: 33.75 kHz, IV: 30 Hz [1080 (1125)/30p], IV: 50 Hz [720 (750)/50p], IH: 33.75 kHz, IV: 30 Hz [1080 (1125)/30p], IH: 15.73 KHz, IV: 59.9 Hz (NTSC/NTSC4.43/PAL-M/PAL60), IH: 15.63 kl +50 %, -16 % (powered) +30 %, -10 % (+28 %, -10 % with ET-DLE085) (powered) $	H ⁺ : 56.25 kHz, N ⁺ : 50 + E (1080 (1125)/S60), [†] H: 27.00 kHz, N ⁺ : 48 Hz (10 28.13 kHz, N ⁺ : 25 Hz (1080 (1125)/250), [†] H: 27.00 kHz, N ⁺ : 48 Hz (10 H = 460 %, -16 % (powered)	tz (480p (525p)), Ht 31.25 kHz, IV: 50 Hz (576p (625p)), Ht 37.50 kHz, 80 (1125)/24sF), Ht: 67.50 kHz, IV: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
axis shift*5 Keystone con Keystone cor with optional Installation Terminals Cabinet mate Dimensions (Weight*7	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN RGB 1 IN RGB 2 IN SERIA/MULT PROJECTOR SYNC IN SERIA/MULT PROJECTOR SYNC IN SERIA/MULT PROJECTOR SYNC IN REMOTE 1 IN REMOTE 1 OUT REMOTE 2 IN LANVDIGITAL LINK rials W × H × D)	$\label{eq:constraint} \begin{array}{l} \text{W: } 24 \text{k}_2 (1080 (1125)/200), \\ \text{W: } 50 \text{k}_2 (720 (750)/500), \\ \text{H: } 33.75 \text{k}\text{k}_2 \text{W: } 30 \text{k}_2 (1080 (1125)/600), \\ \text{H: } 15.73 \text{k}\text{k}_2 \text{W: } 50.9 \text{k}_2 (\text{MSC/NTSCA} 43./\text{PAL-M/PAL60}), \\ \text{H: } 15.73 \text{k}\text{k}_2 \text{W: } 59.9 \text{k}_2 (\text{MSC/NTSCA} 43./\text{PAL-M/PAL60}), \\ \text{H: } 15.73 \text{k}\text{k}_2 \text{W: } 59.9 \text{k}_2 (\text{MSC/NTSCA} 43./\text{PAL-M/PAL60}), \\ \text{H: } 15.73 \text{k}\text{k}_2 \text{W: } 15.9 \text{k}_2 (\text{MSC} \text{MSCO} \text{MSCO} $	H ⁺ : 56.25 kHz, N ⁺ : 50 + E (1080 (1125)/S60), [†] H: 27.00 kHz, N ⁺ : 48 Hz (10 28.13 kHz, N ⁺ : 25 Hz (1080 (1125)/250), [†] H: 27.00 kHz, N ⁺ : 48 Hz (10 H = 460 %, -16 % (powered)	tz (480p (525p)), Ht 31.25 kHz, IV: 50 Hz (576p (625p)), Ht 37.50 kHz, 80 (1125)/24sF), Ht: 67.50 kHz, IV: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
axis shift*5 Keystone corr Keystone corr with optional Installation Terminals Cabinet mate Dimensions (Weight*7 Operation noi	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN RGB 1 IN RGB 2 IN SERIAL/MULT PROJECTOR SYNC IN SERIAL/MULT PROJECTOR SYNC OUT REMOTE 1 IN REMOTE 1 OUT REMOTE 2 IN LAN/DIGITAL LINK rials W × H × D)	$\begin{split} & (Y: 24 k_2 [1080 (1125)/24p], \text{H: } 33.75 kHz, N: 30 Hz [1080 (1125)/30p], N: 50 Hz [720 (750)/50p], \text{H: } 33.75 kHz, N: 60 Hz [1080 (1125)/40p], \text{H: } 15.73 kHz, N: 59.9 Hz (NTSC/NTSC/A.43/PAL-M/PAL60), \text{H: } 15.63 kl + 50 %, -16 % (powered) \\ & +30 %, -10 % (+28 %, -10 % with ET-DLE085) (powered) \\ & (Vertical: ±40 ° ct2) ° with ET-DLE085/DLE055. + 5 ° with ET-DLE085/D korizontal: ±15 ° (Cannot be operated with ET-DLE085/DLE055/DLE055/DLE055) (portical: ±45 ° (c4-0 ° with ET-DLE1605/DLE055/DLE055/DLE055) (powered) \\ & (Vertical: ±45 ° (c4-0 ° with ET-DLE160/DLE265/OUE055/OUE055/DLE055) (powered) \\ & (Vertical: ±45 ° (c4-0 ° with ET-DLE160/DLE265/OUE055/DLE055) (powered) \\ & (Vertical: ±45 ° (c4-0 ° with ET-DLE160/DLE265/OUE055) (powered) \\ & (Vertical: ±45 ° (c4-0 ° with ET-DLE160/DLE265/OUE055) (powered) \\ & (Vertical: ±45 ° (c4-0 ° with ET-DLE160/DLE265/OUE055) (powered) \\ & (Vertical: ±35 ° (during simultaneous horizontal and vertical correction. \\ & (Caling/floor, front/rear, free 360-degree installation \\ & BNC × 1: 3G/HD/SD-SD (pout) \\ & HDMI 19-pin × 1 (Deep Color, compatible with HDCP) \\ & DV-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP, compatible \\ & GB × 1 (BNC × 5): RGB/YPePA/YCaCR/CA/IDE0 \\ & D-sub HD 15-pin (female) × 1 for contrast sync/shutter sync/sk-232C link control (pout) \\ & M3 × 1 for wired remote control \\ & M3 × 1 for ink control (for wired remote control) \\ & D-sub 9-pin (female) × 1 for contrast sync/shutter sync/sk-232C link control (M3 × 1 for network, DIGITAL LINK connection, 100Base-TX, compatible \\ & Molded plastic \\ & 498 × 200^{-6} × 581 mm (19 19/32 × 7 7/8^{-6} × 22 7/8^{-1}) (with supplied lenx) \\ & Approx. 23.2 kg (51.1 lbs.) (with supplied lenx), Approx. 22.4 kg (49.4 lbc 41 dB \\ & 10 $	H ⁺ : 56.25 kHz, N ⁺ : 50 Hz [1080 (1125)/S60], H ⁺ : 31.50 kHz, N ⁺ : 48 Hz [10 28.13 kHz, N ⁺ : 25 Hz [1080 (1125)/250], H ⁺ : 27.00 kHz, N ⁺ : 48 Hz [10 Hz, N ⁺ : 50 Hz, (PALPAL-N/SECAM) + 60 %, -16 % (powered) LE055/DLE030), LE055/DLE030), LE055/DLE030), RS-232C compliant single link only) RS-232C compliant) rol	tz (480p (525p)), Ht 31.25 kHz, IV: 50 Hz (576p (625p)), Ht 37.50 kHz, 80 (1125)/24sF), Ht: 67.50 kHz, IV: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE					
axis shift* ⁵ Keystone con Keystone con	Video/YC Vertical (from center of screen) Horizontal (from center of screen) rection range rection range Upgrade Kit ET-UK20 SDI IN HDMI IN DVI-D IN RGB 1 IN RGB 2 IN SERIAL/MULT PROJECTOR SYNC OUT REMOTE 1 IN REMOTE 1 IN REMOTE 2 IN LAVYDIGITAL LINK rials W × H × D)	$\begin{split} & (Y: 24 k_2 [1080 (1125)/24p], \text{H: } 33.75 kHz, N: 30 k_2 [1080 (1125)/30p], N: 50 k_2 [720 (750)/50p], \text{H: } 33.75 kHz, N: 60 k_2 [1080 (1125)/40p], \text{H: } 15.73 kHz, N: 59.9 kz (NTSC/NTSC/A.43/PAL-M/PAL60), \text{H: } 15.63 kl + 50 %, -16 % (powered) \\ & +30 %, -16 % (powered) \\ & +30 %, -10 % (+28 %, -10 % with ET-DLE085) (powered) \\ & \text{Vertical: } \pm 40 ° (+22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE085/DLE055) (portion ta: \pm 15 ° (Cannot be operated with ET-DLE085/DLE055/DLE055) (portical: \pm 45 ° (c4-0 ° with ET-DLE085/DLE055/DLE055/DLE055) (powered) \\ & \text{Vertical: } \pm 45 °$ (c4-0 ° with ET-DLE1620/SL250/supplied lens, $\pm 22 °$ with ET-DLE085/DLE055/DLE055) (powered) \\ & \text{Vertical: } \pm 45 ° (c4-0 ° with ET-DLE1620/SULE055/DLE055/DLE055) (powered) \\ & \text{Vertical: } \pm 45 ° (c4-0 ° with ET-DLE1620/SULE055/DLE055/DLE055) (powered) \\ & \text{Vertical: } \pm 45 ° (c4-0 ° with ET-DLE1620/SULE055/DLE055/DLE055) (powered) \\ & \text{Vertical: } \pm 45 ° (c4-0 ° with ET-DLE1620/SULE055/DLE055/DLE055) (powered) \\ & \text{Vertical: } \pm 45 ° (c4-0 ° with ET-DLE1620/SULE055) (powered) \\ & \text{Vertical: } \pm 45 ° (c4-0 ° with ET-DLE1620/SULE055) (powered) \\ & \text{Vertical: } \pm 45 ° (c4-0 ° with ET-DLE1620/SULE055) (powered) \\ & \text{Vertical: } \pm 45 ° (c4-0 ° with ET-DLE1625/DLE055) (powered) \\ & \text{Vertical: } \pm 45 ° (c4-0 ° with ET-DLE065/DLE055) (powered) \\ & \text{Vertical: } \pm 10 ° (kHS) (powered) \\ & \text{HDI I 19-pin x 1 (Deep Color, compatible with HDCP) \\ & \text{DV-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP) \\ & \text{DV-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP) \\ & \text{DV-D 24-pin x 1 (BVC 5). RGBY/PB/R/CaCR \\ & \text{D-sub 9-pin (maile) x 1 for contrast sync/shutter sync/Rs-232C link control (powered) \\ & \text{M3 x 1 for wired remote control \\ & \text{M3 x 1 for ink control (for wired remote control) \\ & \text{D-sub 9-pin (maile) x 1 for contrast sync/shutter sync/scaternal control (paralle) \\ & \text{RJ-45 x 1 for network, DIGITAL LINK connection, 100Base-TX, compatible \\ & \text{Moled plastic } \\ & \text{M0led plastic } M1 m (19 19	H: 56.25 kHz, N: 50 Hz [1080 (1125)/250], H: 27.00 kHz, N: 48 Hz [10 28.13 kHz, N: 25 Hz [1080 (1125)/250], H: 27.00 kHz, N: 48 Hz [10 H = 60 %, -16 % (powered)	tz (440p (525p), H: 31.25 kHz, W: 50 Hz [576p (625p), H: 37.50 kHz, 800 (1125)/245F], H: 67.50 kHz, W: 60 Hz [1080 (1125)/60p] +50 %, -13 % (+45 %, -13 % with ET-DLE085) (powered) Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE Horizontal: ±15 ° (Cannot be operated with ET-DLE085/DLE055/DLE 					

Note: The PT-RZ970L/RW930L/RX110L delivers the same performance as the PT-RZ970/RW930/RX110, but comes without a lens.

*1 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. *2 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. *3 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal). *4 WUXGA resolution is supported with CVT-RB signals (WUXGA60RB) and CVT signals (WUXGA60/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, or if it exceeds 25 °C (77 °F) when used in locations from 2,700 m to 4,200 m (0,858 ft to 13,780 ft) above sea level, or if to 13,780 ft) above sea level, or on to exceed s 25 °C (77 °F) when used in locations from 2,700 m to 4,200 m (0,858 ft to 13,780 ft) above sea level, or if it exceeds 25 °C (77 °F) when used in locations from 2,700 m to 4,200 m to 4,200 m (0,858 ft to 13,780 ft) above sea level, or if texceeds 25 °C (77 °F) when used in locations from 2,700 m to 4,200 m to 4,200 m (0,858 ft to 13,780 ft) above sea level, or if texceeds 25 °C (77 °F) when used in locations from 2,700 m to 4,200 m to 4,200 m (0,858 ft) above sea level, or if texceeds 25 °C (77 °F) when used in locations from 2,700 m to 4,200 m to 4,200 m to 4,200 m to 4,200 m to 13,780 ft) above sea level, or if to 13,780 ft) above sea level, or if texceeds 25 °C (77 °F) when used in locations from 2,700 m to 4,200 m to 4,200 m to 4,200 m to 4,200 m to 13,780 ft) above sea level, or if texceeds 25 °C (77 °F) when used in locations from 2,700 m to 4,200 m to 4,200 m to 4,200 m to 4,200 m to 13,780 ft) above sea level, or if texceeds 25 °C (77 °F) when used in locations from 2,700 m to 4,200 m to 4,200

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







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