

 **telesonic**

**DOSSIER DE MARCAS
Y MODELOS COMPATIBLES
CON LOS EQUIPOS EXISTENTES**

	MARCA	MODELO
VIDEOPROYECTORES		
Videoprojector 30K + lente	PANASONIC	PT-RZ31KEJ
Videoprojector 20K + lente	PANASONIC	PT-RZ21KEJ
Videoprojector 12K+ lente	PANASONIC	PT-DZ13KEJ
Videoprojector 10K+ lente	PANASONIC	PT-DZ10KEJ
Videoprojector 6K + lente	PANASONIC	PT-RW620BEJ
INFORMÁTICA		
Ordenador portátil i5	MSI	GL62MVR
Ordenador portátil i7	MSI	GT73VR
MONITORES DE VIDEO		
Monitor de 40" (soporte cuña)	LG	40UF6710
Monitor de 43" (soporte cuña)	SAMSUNG	K5505
Monitor de 55" (soporte cuña)	LG	55LN577
Monitor de 60" (soporte cuña)	LG	60UG770V
Monitor de 98" (soporte cuña)	NEC	C981Q
Monitor de 40" (con pie)	LG	40UF6710
Monitor de 43" (con pie)	SAMSUNG	K5505
Monitor de 55" (con pie)	LG	55LN577
Monitor de 60" (con pie)	LG	60UG770V
Monitor de 98" (con pie)	NEC	C981Q
PROCESADORES DE IMAGEN		
Procesador para Picture in Picture	ANALOG WAY	SPX450
MICROFONÍA		
Micrófono inalámbrico de mano	SHURE	ULXD4- ULXD2- SM58
Micrófono inalámbrico de diadema	SHURE	ULXD4- ULXD1- WCM16
Micrófono de atril	SENNHEISER	ME 36 - MZH 3042
AUDIO		
Monitor de audio pasivo compatible auditorio	NEXO	PS15-R2
Monitor de audio activo compatible auditorio	MEYER	UPA- 1P
Equipo sonido 2 altavoces+micos fijos + mesa (sala máx. 60 pax)		
Equipo sonido 4 altavoces+micos fijos+ mesa (sala máx. 100 pax)		
Equipo sonido 6 altavoces+micos fijos + mesa (sala máx. 150 pax)		
ILUMINACIÓN		
Recorte 2KW 15°/40°	ROBERT JULIAT	714 SX2
Recorte 750 W 15°/30°	ETC	SOURCE FOUR ZOOM 15°-30°
Recorte 750 W 25°/50°	ETC	SOURCE FOUR ZOOM 25°-50°
Recorte 575 W 25°/50°	ETC	S4 JR
Consola de iluminación	CHAMSYS	MagicQ PC Wing Compact
Foco tipo 1 (cabeza móvil spot)	ROBE	BFML SPOT
Foco tipo 2 (cabeza móvil beam wash)	ROBE	BFML WASH BEAM
Foco tipo 3 (móvil wash)	ROBE	BFML WASH

	MARCA	MODELO
ILUMINACIÓN		
Foco tipo 4 (fresnel 2KW)	ROBERT JULIAT	329 HF
Foco tipo 5 (fresnel 1KW)	ROBERT JULIAT	310 HF
Foco tipo 6 (recortado)	ETC	SOURCEFOUR LUSTR+
Foco tipo 7 (par led)	CHAUVET	COLOR DASH PAR H12 IP
Foco tipo 8 Barra de led	ROBE	CYC FX8
MONITORES DE VIDEO		
Pantalla TFT 22"	HP	LA2205wg
Pantalla M 2,9 (Indoor) (Tile 50x50cm.)	YESTECH	DPP 2840
Pantalla M3,9 (Indoor) (Tile 50x50 cm.)	YESTECH	DPP3910
Pantalla 4,9 (Indoor/Outdoor) (Tile 50x56,2cm.)	YESTECH	MGT- P4,8
PROCESADORES DE IMAGEN		
Procesador para blending	ANALOG WAY	ASC4806-4K-PL
GESTION DE SENAL		
Conversores de FO-DVI	LIGHTWARE	DVI OPT TX,RX 110
AUDIO		
Mesa de mezclas digital 32 canales	DIGICO	SD9B
Mesa de mezclas digital 24 canales	ALLEN HEATH	QU 24 CHROME
Mesa de mezclas digital 12 canales	Allen & Heath	QU 16 CHROME
Módulo line array autoamplificado	BOSE	812 FQ
Sub wofer autoamplificado	BOSE	SUBWOOFER F1
TRADUCCION SIMULTANEA		
CCU Compatible Auditorio 16 canales	BOSCH	DCN CCU
CCU Compatible Auditorio 32 canales	BOSCH	DCN CCU
Transmisor Compatible Auditorio 16 canales	BOSCH	INT-TX16
Transmisor Compatible Auditorio 32 canales	BOSCH	INT-TX32
Pupitre de traducción compatible e/auriculares	BOSCH	DCN-IDEK
Radiador Compatible Auditorio 32 canales	BOSCH	LBB 4512/00
Maleta de 50 receptores(BOSCH DCN INTEGRUS)	BOSCH	LBB 4540/32
PANTALLAS		
Pantalla de truss 6'00 x 4'00 m	STUMPFL	VARIO 64 600 X 400
Pantalla de truss 4'00 x 3'00 m	STUMPFL	VARIO 32 400X300
ILUMINACION		
Trípode	MANFROTTO	Wind Up 087 NWB black
OTROS		
Pasador de dlapos1tlvas	INTERSPACE INDUSTRIES	MICRO CUE 2

Panasonic
BUSINESS

PT-RZ31K Series
3-Chip DLP™ Projector®
PT-RZ31K
PT-RS30K

Evolution Reaches a New Peak





Rio 2016

OFFICIAL WORLDWIDE
OLYMPIC PARTNER

Panasonic

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BOOST PERFORMANCE, EFFORTLESSLY

The evolution of 3-Chip DLP™ SOLID SHINE Laser culminates in the PT-RZ31K Series, a flagship forged by end-user experience with 31,000-lumen (Center/High Mode)* of brightness for rental/staging events. Convenient on-site rigging and dust-resistant optics push service-free projection beyond 20,000 hours** in Normal Mode for permanent installations. In every detail, these flagships make elite performance last longer.

PT-RZ31K SERIES

3-Chip DLP™ Projectors	
Model	PT-RZ31K
Resolution	WUXGA SXGA+
Brightness	31,000 lm (Center)*, 30,000 lm*
Contrast	20,000:1

*Center/High Mode brightness. **Normal Mode. Actual performance may vary. For more information, visit panasonic.com/projectors. © 2015 Panasonic Corporation. All rights reserved. PT-RZ31K is a registered trademark of Panasonic Corporation. DLP is a registered trademark of Texas Instruments. SXGA+ is a registered trademark of Intel Corporation. WUXGA is a registered trademark of Intel Corporation. All other trademarks are the property of their respective owners.

Lighting Up the Rio 2016 Olympic Games Opening Ceremony

As Official Worldwide Olympic Partner, Panasonic supplied about 110 projectors—including a prototype PT-RZ31K Series SOLID SHINE Laser projector—to light up the Opening Ceremony at the Rio 2016 Olympic Games. Chosen for high brightness, brilliant color performance, and advanced mapping capabilities, the projectors performed flawlessly throughout the event.



SOLID SHINE Laser: World-beating Performance, Stability, and Stamina



Outstanding Picture Quality

Superior Brightness Meets True-to-Life Color Accuracy

Combining 3-Chip DLP™ imaging with original SOLID SHINE Laser Phosphor technology, the PT-RZ31K Series produces data-rich and vividly colored pictures with best-in-class* 31,000 lumens brightness (Center)† in High Mode. Dual solid-state laser light-sources and specially engineered heat-resistant phosphor wheels work together with three DL™ modules (R/G/B) for outstanding brightness, color accuracy, and contrast in large venues.

*1. Laser Light Source Brightness per ANSI, as measured on 1 April 2017.
 †2. Lumens measured at center of screen in High Mode. For more information, please visit www.panasonic.com.

Operational Mode Brightness

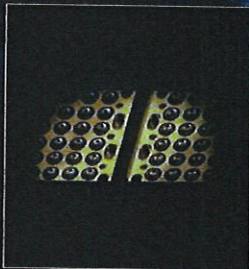
Operational Mode	Brightness	Operational Hours
High Mode	31,000 lm (Center) 8,000 lm	70% brightness after 8,000 hours
Normal Mode	26,000 lm (Center) 7,500 lm	60% brightness after 20,000 hours

*1. For more information on operational brightness, please visit www.panasonic.com.
 †2. For more information on operational hours, please visit www.panasonic.com.
 ‡3. For more information on operational hours, please visit www.panasonic.com.
 §4. For more information on operational hours, please visit www.panasonic.com.

Stable, Reliable Operation

Dual-Laser Optical Engine Assures Fail-safe Reliability

Dual-Drive Laser Optical Engine groups laser diodes into two discrete modules. A redundancy circuit works to minimize brightness- and color-uniformity loss should a laser diode fail, making the PT-RZ31K Series ideal for mission-critical applications where picture presentation must be maintained.



Flexible Installation

Flexible 360-degree Installation

SOLID SHINE Laser enables free 360-degree installation through any axis. Together with powered lens shift and a wide range of optional lenses, the projector can be mounted in any way (vertical without picture distortion) temporarily or in permanent applications.



Quick Start, Quick Off

The laser light-source doesn't require any time to warm up, so images appear almost instantly with PT-RZ31K Series projectors. There's also no cool-down period when turning the power off at the mains—the projector can be turned on and off any time as necessary.

Dustproof Optics Extend Longevity

The PT-RZ31K Series has hermetically sealed laser modules, durable filtering, and a new air-intake system to extend life and maintain picture quality in dusty locations. SOLID SHINE Laser products are tested against more severe guidelines than other projectors for stable operation in environments containing 0.150 mg of dust per cubic meter*.

*Dustproof tests are conducted to simulate real-world conditions with 0.25 micrometers of dust. Dust particles are measured by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the Japanese Building Maintenance Association (ASHRAE).

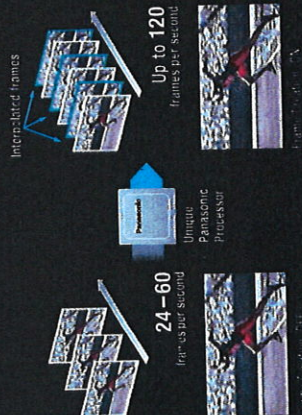
Clean Environment	WHO Europe Guideline for Dust Resistance	Japanese Building Maintenance Association ASHRAE	Panasonic Dust Test Standard
0.030 mg/m ³	0.110 mg/m ³	0.150 mg/m ³	DUSTY



Next-Generation Systems Present Amazing Images

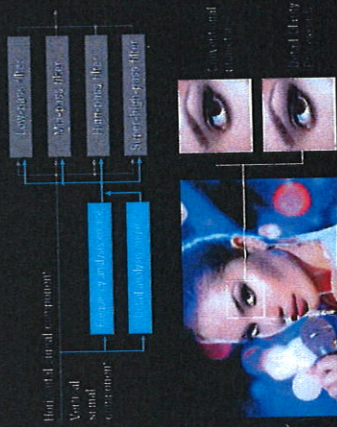
120 Hz**1 Drive Reduces Motion Blur

Real Motion Processor interpolates images for a 120 Hz**1 frame-rate. Smooth, stutter-free 120 Hz**1 reproduction is also possible using simultaneous inputs (two 3G-SDI inputs or DVI-D/HDMI combination). Together with a refined optical engine that enhances focus, Real Motion Processor delivers a better sense of resolution, contrast, and fluidity of motion, particularly with fast-paced scenes.



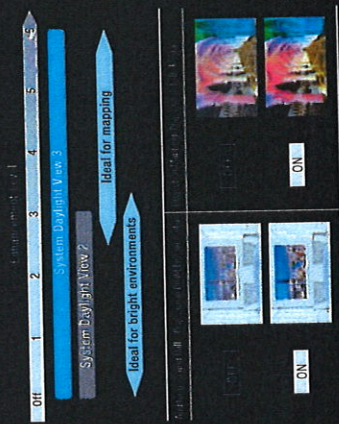
Detail Clarity Processor 5 Provides Pin-sharp Insight

Proprietary circuitry analyzes individual frames to clarify areas of the image containing fine details and textures. Algorithms pull information from the super-high, high, medium, and low frequency bands of the signal, sharpening outlines, correcting contours, and reducing ringing noise.



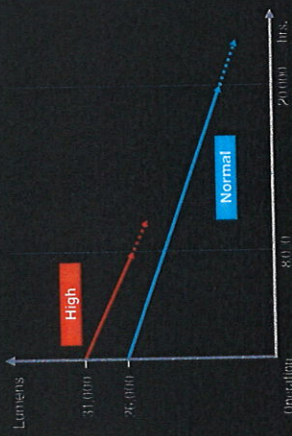
System Daylight View 3 Optimizes for Mapping and Bright Conditions

Panasonic's premium System Daylight View 3 stops pictures washing out in bright light and enhances impact in mapping and multi-projector applications. It uses sensor information to adjust sharpness, manipulate gamma curves, and correct colors to suit on-site conditions.



Selectable Operational Modes

Select your preferred operational mode to control brightness decline according to application. High Mode maintains 70% brightness over 8,000 hours**2 with linear declination and minimal fluctuation. In Normal Mode, linear brightness decline is about 50% over 20,000 hours**2 of continuous operation with no maintenance required.



Optional Long Life Filter for 20,000-hour**3 Service-free Operation



Long life filter and dust-reducing deionized water bath that collect maintenance dust (up to 1 mg/dm²) and dust (up to 0.1 mg/dm²) to extend the life of the projector lamp and reduce maintenance.

Filter Type	Operational Mode:	Operational Mode:
Standard Filter	High	Normal
Optional Long Life Filter	2,000 hours	20,000 hours
Optional Long Life Filter	4,000 hours	20,000 hours

Power Management Reduces Downtime

Auto power saving, auto dimming, and auto standby functions improve energy efficiency. Low standby power consumption helps reduce energy costs and environmental impact.

Efficient Cooling System Enhances Reliability

The light source liquid-cooled system reduces heat and noise. The efficient cooling system helps reduce energy costs and environmental impact.

Dynamic Contrast Adds to Depth and Realism

High frame-rate 120 Hz**1 and 120 Hz**1 frame-rate. Smooth, stutter-free 120 Hz**1 reproduction is also possible using simultaneous inputs (two 3G-SDI inputs or DVI-D/HDMI combination). Together with a refined optical engine that enhances focus, Real Motion Processor delivers a better sense of resolution, contrast, and fluidity of motion, particularly with fast-paced scenes.

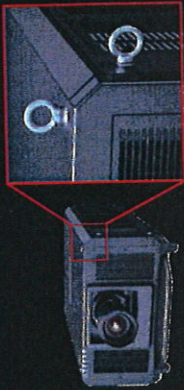
Leads the Class with 90% Brightness Uniformity

90% brightness uniformity. Superior screen uniformity. High brightness, high contrast, and high resolution. High brightness, high contrast, and high resolution.

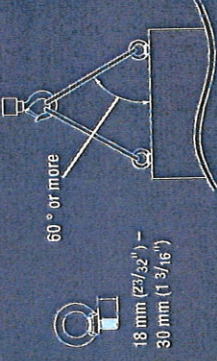
1: 120 Hz1 frame rate is achieved by using the Real Motion Processor. **2: Linear brightness decline is based on the initial brightness of 31,000 Luminens. **3: Service-free operation is based on the initial brightness of 31,000 Luminens. Actual brightness decline may vary depending on the operating environment and usage. For more information, please contact your local Panasonic representative.

Eyebolt-ready for Crane Installations

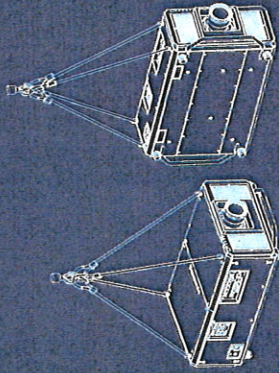
Eyebolts allow the PT-R231K Series to hang from a crane, simplifying rigging at large-scale events for rental/staging professionals.



Supports rigging at angles greater than 60°



60° or more
18 mm (7/16") -
30 mm (1 3/16")

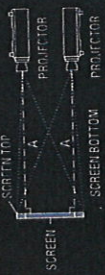


Unit: meters (feet)

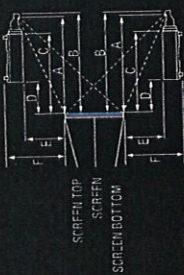
Diagonal image size	PT-R231K (16:10 aspect ratio)			PT-RS30K (4:3 aspect ratio)			Throw distance (m)			Throw distance (ft)												
	min.	max.	min.	min.	max.	min.	min.	max.	min.	max.	min.	max.										
1/8" (20)	1.35	1.62	1.92	2.46	3.38	3.94	6.87	11.04	10.78	20.65	1.01	1.39	1.66	1.95	2.42	3.32	3.65	4.21	7.22	11.28	11.09	21.14
2.74" (70)	1.5	2.31	2.76	3.56	5.17	5.13	9.89	13.85	13.47	26.53	1.67	2.01	2.41	2.82	3.64	3.00	5.20	4.24	10.10	16.19	16.31	30.36
3.55" (90)	2.32	2.82	3.22	4.30	6.29	6.22	11.89	16.05	15.76	31.52	1.78	2.43	2.80	3.46	4.39	4.37	6.35	6.31	12.75	16.46	16.46	36.50
4.51" (115)	2.66	3.35	4.15	5.40	8.37	7.81	14.52	20.54	20.27	42.47	2.24	3.03	3.65	4.27	5.49	5.49	7.98	7.92	15.41	15.23	24.37	46.77
5.68" (145)	3.07	4.75	5.60	7.24	10.45	10.38	20.15	28.32	28.32	59.41	3.21	4.03	4.53	5.72	7.39	7.34	10.67	10.60	20.50	25.35	32.64	62.40
7.14" (182)	4.53	6.95	7.72	9.87	14.29	13.00	24.95	39.86	39.49	84.26	3.78	5.12	5.73	7.17	9.37	9.30	13.37	13.25	25.49	25.48	40.72	80.44
8.91" (228)	5.93	7.17	8.44	10.91	15.82	15.73	31.53	48.37	47.87	101.30	4.56	6.19	7.37	8.62	11.14	11.05	16.07	15.95	30.93	30.61	48.89	97.79
11.16" (283)	8.00	9.58	11.29	15.58	21.07	20.85	40.61	63.37	63.42	136.16	6.10	8.27	9.85	11.52	14.90	14.77	21.46	21.31	41.38	40.87	62.95	125.91
14.17" (360)	10.01	11.93	14.2	18.45	26.11	26.11	52.68	80.98	80.98	174.08	7.64	10.79	12.33	14.72	19.00	18.48	26.86	26.67	51.71	51.72	81.60	163.23
17.82" (453)	12.03	14.45	16.96	22.27	30.93	30.93	62.72	96.92	96.92	210.06	9.18	12.36	14.81	17.33	22.40	22.40	32.75	32.75	62.45	61.38	97.95	195.95
22.52" (573)	14.04	16.82	19.80	26.50	36.85	36.85	74.02	111.90	111.90	247.27	10.72	14.43	17.29	20.23	26.16	26.16	37.65	37.38	72.54	71.64	114.30	230.38
28.42" (723)	16.03	19.23	22.64	30.27	41.34	41.34	83.19	127.93	127.93	296.23	12.27	16.50	19.77	23.13	29.90	29.90	42.34	42.74	82.93	81.89	130.65	280.77
35.72" (903)	18.07	21.84	25.48	34.94	48.23	47.42	97.46	143.92	143.92	358.14	13.81	18.97	22.25	26.03	33.85	33.85	48.44	48.19	93.92	92.15	147.00	320.17
45.42" (1153)	20.03	24.05	28.33	38.61	52.72	52.33	107.93	169.93	169.93	435.13	15.35	20.84	24.73	29.03	37.40	37.40	51.83	52.45	102.41	102.41	163.56	350.56

Dimension Definitions

If using lens other than the E1-D75LE95



If using the E1-D75LE95



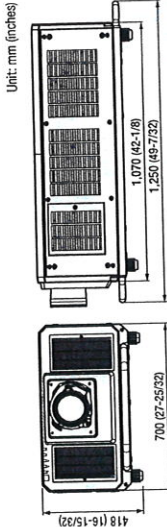
Unit: meters (feet)

PT-RS30K (4:3 aspect ratio)

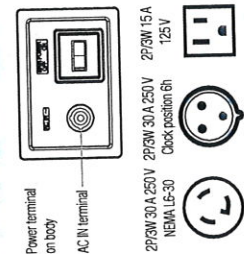
PT-R231K (16:10 aspect ratio)

Diagonal image size	L1-D75LE95			L1-D75LE95			L1-D75LE95			L1-D75LE95		
	(A)	(B)	(C)	(D)	(E)	(F)	(A)	(B)	(C)	(D)	(E)	(F)
3.51" (90)	0.94	0.97	1.68	0.72	0.72	1.28	0.69	0.70	1.22	0.67	0.74	1.28
4.51" (115)	1.18	1.20	2.01	0.94	0.94	1.68	0.94	0.94	1.68	1.00	1.00	1.68
5.68" (145)	1.51	1.51	2.54	1.25	1.25	2.18	1.25	1.25	2.18	1.33	1.33	2.18
7.14" (182)	1.95	1.95	3.22	1.68	1.68	2.94	1.68	1.68	2.94	1.78	1.78	2.94
8.91" (228)	2.38	2.38	3.94	2.01	2.01	3.54	2.01	2.01	3.54	2.12	2.12	3.54
11.16" (283)	2.82	2.82	4.51	2.44	2.44	4.24	2.44	2.44	4.24	2.54	2.54	4.24
14.17" (360)	3.26	3.26	5.18	2.88	2.88	5.04	2.88	2.88	5.04	2.94	2.94	5.04
17.82" (453)	3.70	3.70	5.94	3.32	3.32	5.84	3.32	3.32	5.84	3.42	3.42	5.84
22.52" (573)	4.14	4.14	6.62	3.76	3.76	6.62	3.76	3.76	6.62	3.86	3.86	6.62
28.42" (723)	4.58	4.58	7.30	4.20	4.20	7.30	4.20	4.20	7.30	4.30	4.30	7.30

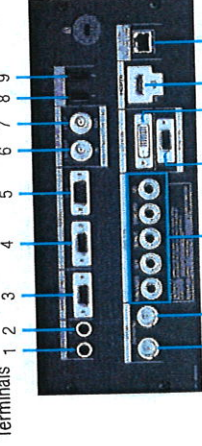
Unit: mm (inches)



Dimensions



1. REMOTE 1 IN terminal
2. REMOTE 1 OUT terminal
3. REMOTE 2 IN terminal
4. SERIAL IN terminal
5. SERIAL OUT terminal
6. MULTI PROJECTOR SYNC IN/3D SYNC 1 IN/OUT terminal
7. MULTI PROJECTOR SYNC OUT/3D SYNC 2 OUT terminal
8. DC 1 OUT terminal
9. DC 2 OUT terminal
10. SDI 1 IN terminal
11. SDI 2 IN terminal
12. RGB 1 IN terminal
13. RGB 2 IN terminal
14. DVI-D IN terminal
15. HDMI IN terminal
16. DIGITAL LINK/LAN terminal



Panasonic

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export controls and regulations. DLP logo and DLP Medallion logo are trademarks or registered trademarks of Texas Instruments. The projection distances and throw ratios given in this leaflet are for use only as a guide. For more detailed information, please consult the dealer from whom you are purchasing the product. The P.Link trademark is an application trademark in Japan, the United States and other countries and is a trademark or registered trademark of HDMI Licensing LLC in the United States and other countries. All other trademarks are the property of their respective trademark holders. © 2017 Panasonic Corporation. All rights reserved.

For more information about Panasonic projectors, please visit:
Projector Global Website – panasonic.net/cns/projector
Facebook – www.facebook.com/panasonicprojector
YouTube – www.youtube.com/user/PanasonicPProjector

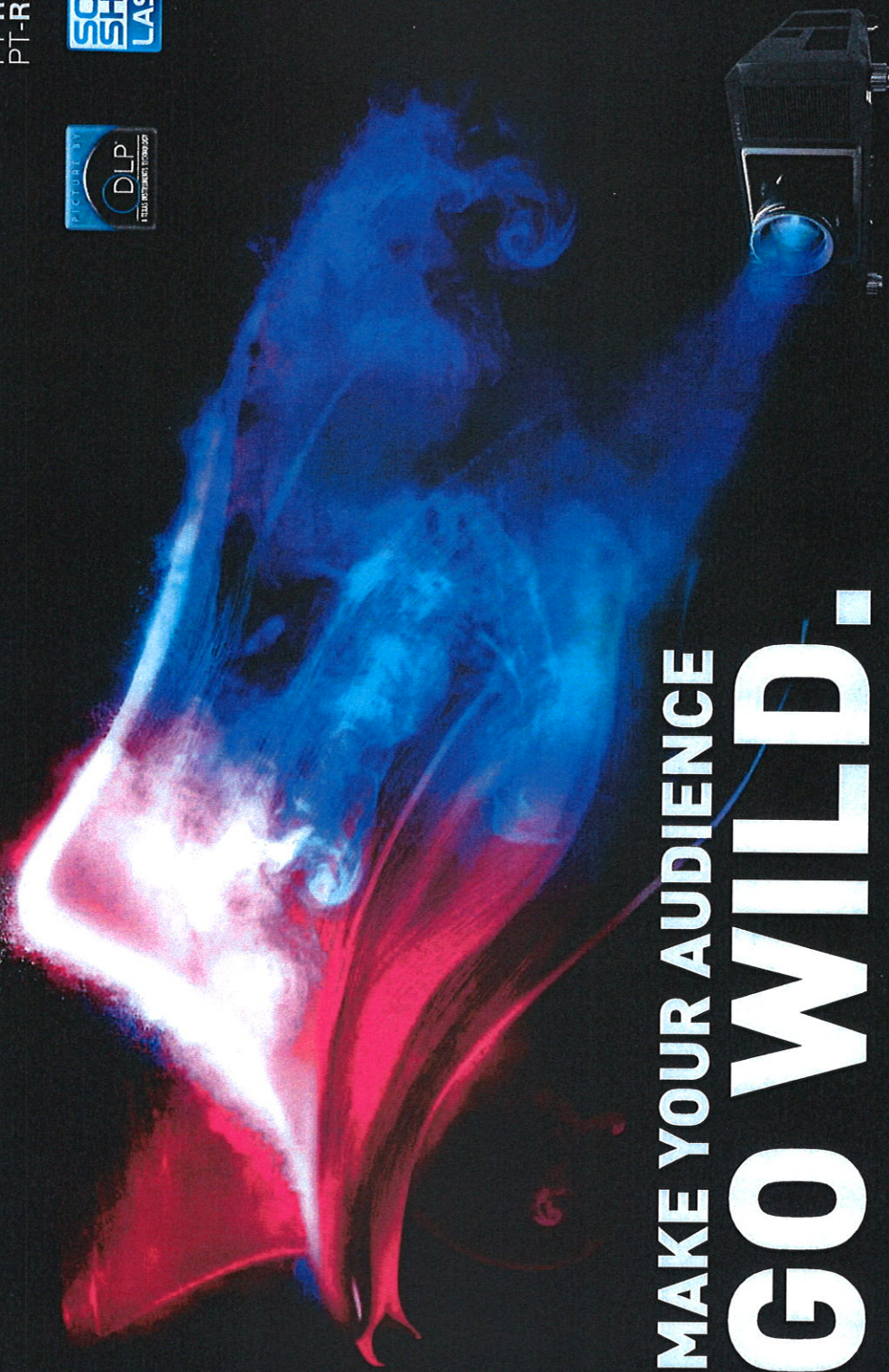


All information included here is valid as of April 2017.
PT-FZ3TKG3 Printed in Japan

Panasonic
BUSINESS

PT-RZ21K Series
3-Chip DLP™ Projector

PT-RZ21K
PT-RS20K



MAKE YOUR AUDIENCE
GO WILD.

Introducing the PT-RZ21K. Panasonic's dynamic new showstopping laser projector for large venues.



Lenses sold separately.

Worldwide
Olympic Partner



Worldwide
Paralympic Partner



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Revolutionizing Multi-projector Staging with SOLID SHINE Laser

Flagship Picture Quality

Massive Brightness, Compact Body

Combining SOLID SHINE Laser with next-generation 3-Chip DLP processing technology, the PT-RZ21K Series develops 21,000 lumens* of brightness with truly spectacular color performance superior to other laser-based products. Dual solid-state laser-light sources and dual heat-resistant photo-prior wheels work with three DLP modules (R/G/B) for intense brightness, true color accuracy and high contrast on large screens.

*Lumens based on ANSI method, 100% duty cycle, 100% duty cycle.

Dual-Drive Laser Design for Reliability in Dusty Environments

Dual-Laser Drive

Solid-state laser diodes are coupled into two discrete modules. A redundancy circuit minimizes brightness- and color-uniformity loss should a laser diode fail, making the PT-RZ21K Series ideal for mission-critical applications.



Sealed and Dustproof Optical Engine

Hermetically sealed laser modules, double filtering, and refined air-makeup maintain brightness and extend life in dusty location. Pre-duct testing against severe guidelines assures stable operation in environments containing 0.15+ mg of dust per cubic meter. The PT-RZ21K Series is designed to operate in environments with dust levels up to 0.150 mg/m³ (0.05 grains per cubic foot) in accordance with the ASHRAE 55 standard. The PT-RZ21K Series is also designed to operate in environments with dust levels up to 0.110 mg/m³ (0.04 grains per cubic foot) in accordance with the WHO European Guideline for Dust Pollution.

Clean Environment	0.030 mg/m ³	WHO Europe Guideline for Dust Pollution	0.110 mg/m ³	Japanese Building Maintenance Association ASHRAE™	0.150 mg/m ³	DUSTY

Supreme Flexibility

Free 360-degree Orientation

SOLID SHINE Laser enables free 360-degree installation through any axis. Together with powered lens shift and wide range of optional lenses, the PT-RZ21K Series can project images from any orientation without picture distortion.



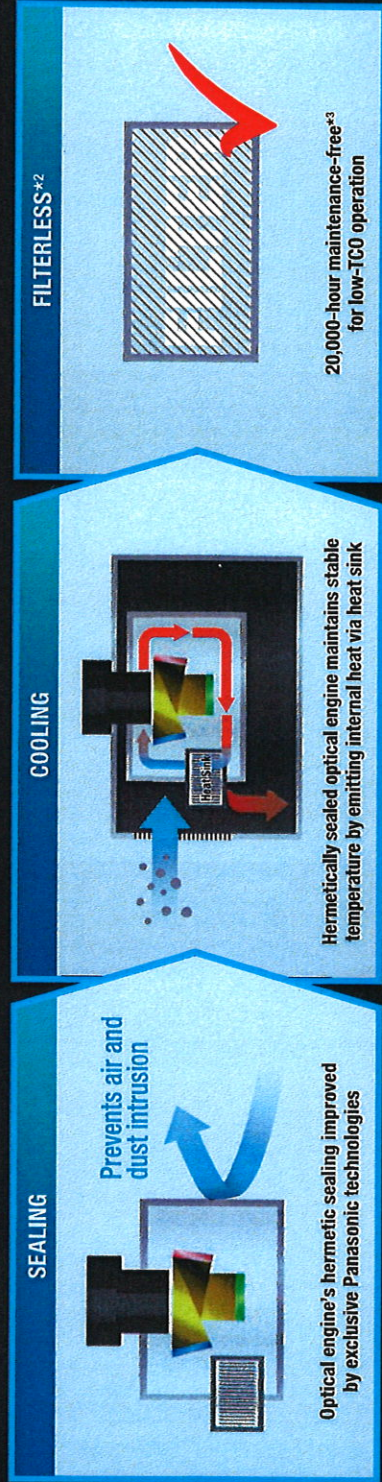
Quick Start and Quick Off

No warm-up or cool-down period is required when operating PT-RZ21K Series projectors. Images appear almost instantly, and the projector can be switched on and off whenever desired.

The World's First*1 Filterless*2 Large-Venue 3-Chip DLP™ Projector

The Panasonic PT-RZ21K Series is the world's first 3-Chip DLP™ laser projector*1 to eliminate need for a consumable air filter, enabling maintenance-free operational life of 20,000 hours*2 for the whole projector. This is achieved with a hermetically sealed optical engine and heat-sink-based internal cooling system with a one-way airflow.

The projector can operate continuously for long periods in large-scale event environments without regular maintenance, saving operators considerable time and money. With no filter, light-source lifespan of 20,000 hours, and controlled, linear picture degradation, the PT-RZ21K Series leads the field for low TCO.

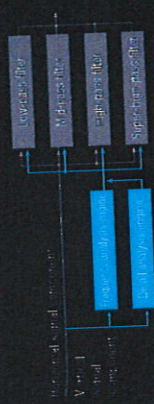


*1. First 3-Chip DLP™ laser projector in the world. *2. Based on the Panasonic PT-RZ21K Series. *3. Based on the Panasonic PT-RZ21K Series. *4. Based on the Panasonic PT-RZ21K Series. *5. Based on the Panasonic PT-RZ21K Series. *6. Based on the Panasonic PT-RZ21K Series. *7. Based on the Panasonic PT-RZ21K Series. *8. Based on the Panasonic PT-RZ21K Series. *9. Based on the Panasonic PT-RZ21K Series. *10. Based on the Panasonic PT-RZ21K Series. *11. Based on the Panasonic PT-RZ21K Series. *12. Based on the Panasonic PT-RZ21K Series. *13. Based on the Panasonic PT-RZ21K Series. *14. Based on the Panasonic PT-RZ21K Series. *15. Based on the Panasonic PT-RZ21K Series. *16. Based on the Panasonic PT-RZ21K Series. *17. Based on the Panasonic PT-RZ21K Series. *18. Based on the Panasonic PT-RZ21K Series. *19. Based on the Panasonic PT-RZ21K Series. *20. Based on the Panasonic PT-RZ21K Series. *21. Based on the Panasonic PT-RZ21K Series. *22. Based on the Panasonic PT-RZ21K Series. *23. Based on the Panasonic PT-RZ21K Series. *24. Based on the Panasonic PT-RZ21K Series. *25. Based on the Panasonic PT-RZ21K Series. *26. Based on the Panasonic PT-RZ21K Series. *27. Based on the Panasonic PT-RZ21K Series. *28. Based on the Panasonic PT-RZ21K Series. *29. Based on the Panasonic PT-RZ21K Series. *30. Based on the Panasonic PT-RZ21K Series. *31. Based on the Panasonic PT-RZ21K Series. *32. Based on the Panasonic PT-RZ21K Series. *33. Based on the Panasonic PT-RZ21K Series. *34. Based on the Panasonic PT-RZ21K Series. *35. Based on the Panasonic PT-RZ21K Series. *36. Based on the Panasonic PT-RZ21K Series. *37. Based on the Panasonic PT-RZ21K Series. *38. Based on the Panasonic PT-RZ21K Series. *39. Based on the Panasonic PT-RZ21K Series. *40. Based on the Panasonic PT-RZ21K Series. *41. Based on the Panasonic PT-RZ21K Series. *42. Based on the Panasonic PT-RZ21K Series. *43. Based on the Panasonic PT-RZ21K Series. *44. Based on the Panasonic PT-RZ21K Series. *45. Based on the Panasonic PT-RZ21K Series. *46. Based on the Panasonic PT-RZ21K Series. *47. Based on the Panasonic PT-RZ21K Series. *48. Based on the Panasonic PT-RZ21K Series. *49. Based on the Panasonic PT-RZ21K Series. *50. Based on the Panasonic PT-RZ21K Series. *51. Based on the Panasonic PT-RZ21K Series. *52. Based on the Panasonic PT-RZ21K Series. *53. Based on the Panasonic PT-RZ21K Series. *54. Based on the Panasonic PT-RZ21K Series. *55. Based on the Panasonic PT-RZ21K Series. *56. Based on the Panasonic PT-RZ21K Series. *57. Based on the Panasonic PT-RZ21K Series. *58. Based on the Panasonic PT-RZ21K Series. *59. Based on the Panasonic PT-RZ21K Series. *60. Based on the Panasonic PT-RZ21K Series. *61. Based on the Panasonic PT-RZ21K Series. *62. Based on the Panasonic PT-RZ21K Series. *63. Based on the Panasonic PT-RZ21K Series. *64. Based on the Panasonic PT-RZ21K Series. *65. Based on the Panasonic PT-RZ21K Series. *66. Based on the Panasonic PT-RZ21K Series. *67. Based on the Panasonic PT-RZ21K Series. *68. Based on the Panasonic PT-RZ21K Series. *69. Based on the Panasonic PT-RZ21K Series. *70. Based on the Panasonic PT-RZ21K Series. *71. Based on the Panasonic PT-RZ21K Series. *72. Based on the Panasonic PT-RZ21K Series. *73. Based on the Panasonic PT-RZ21K Series. *74. Based on the Panasonic PT-RZ21K Series. *75. Based on the Panasonic PT-RZ21K Series. *76. Based on the Panasonic PT-RZ21K Series. *77. Based on the Panasonic PT-RZ21K Series. *78. Based on the Panasonic PT-RZ21K Series. *79. Based on the Panasonic PT-RZ21K Series. *80. Based on the Panasonic PT-RZ21K Series. *81. Based on the Panasonic PT-RZ21K Series. *82. Based on the Panasonic PT-RZ21K Series. *83. Based on the Panasonic PT-RZ21K Series. *84. Based on the Panasonic PT-RZ21K Series. *85. Based on the Panasonic PT-RZ21K Series. *86. Based on the Panasonic PT-RZ21K Series. *87. Based on the Panasonic PT-RZ21K Series. *88. Based on the Panasonic PT-RZ21K Series. *89. Based on the Panasonic PT-RZ21K Series. *90. Based on the Panasonic PT-RZ21K Series. *91. Based on the Panasonic PT-RZ21K Series. *92. Based on the Panasonic PT-RZ21K Series. *93. Based on the Panasonic PT-RZ21K Series. *94. Based on the Panasonic PT-RZ21K Series. *95. Based on the Panasonic PT-RZ21K Series. *96. Based on the Panasonic PT-RZ21K Series. *97. Based on the Panasonic PT-RZ21K Series. *98. Based on the Panasonic PT-RZ21K Series. *99. Based on the Panasonic PT-RZ21K Series. *100. Based on the Panasonic PT-RZ21K Series.

Taking Reference Quality Images to the Next Level

Detail Clarity Processor 5

Proprietary circuitry analyzes individual video frames to identify and clarify fine details and textures. Algorithms pull information from four frequency bandwidths, from super-high to low, to sharpen outlines, correct contours, and reduce ringing noise.



120 Hz Real Motion Processor Reduces Motion Blur

Real Motion Processor interpolates images for a 120 Hz* frame-rate. Smooth 120 Hz* reproduction is possible via simultaneous inputs (3G-SDI inputs or DVI-D/HDMI). Together with a refined optical engine to enhance focus, Real Motion Processor delivers a better sense of resolution, contrast, and fluidity.



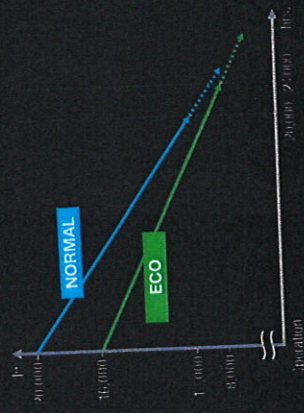
System Daylight View 3

This premium technology stops pictures washing out in bright light and assures dramatic impact for mapping and multi-projector applications. It uses sensor information to correct sharpness, gamma curves, and colors to suit on-site conditions.



NORMAL and ECO Modes

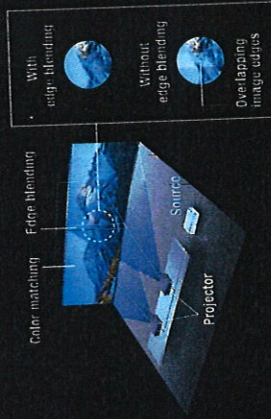
The PT-RZ21K is designed for a set 20,000-hour operational lifespan out of the box, with no filter or light-source replacement required. In suitable environments, users can select ECO Mode to arrest brightness decline, useful for permanent installations when the projector is used continuously.



Multi-screen Support System

This system optimizes multiple screens with edge blending, color matching, and digital image enlargement functions.

- **Edge Blending:** Edges of adjacent screens can be blended and their luminance controlled.
- **Color Matching:** Corrects color reproduction variations of each projector via PC control software.



*Resolution enhanced by up to 100% using the 10x (H/V) digital zoom function. Resolution enhanced by up to 100% using the 10x (H/V) digital zoom function. Resolution enhanced by up to 100% using the 10x (H/V) digital zoom function.

90 % Brightness Uniformity

SOLID SHINE Laser delivers superior brightness uniformity thanks to accurate white balance control. Brightness uniformity is greater than 90 % when measured at screen corners, edges, and center.

Guaranteed Laser Safety

SOLID SHINE Laser technology is as safe for eyesight as any lamp-based projector. A diffusing lens reduces the concentration of beam energy, so accidental direct exposure will not result in damage to eyesight.

DIGITAL LINK Connection

DIGITAL LINK transmits uncompressed Full HD video and control commands through a single CAT 5e or higher S/P cable for distances of up to 150 m (492 ft)*. Optional DIGITAL LINK Switcher or Digital Interface Box further simplifies installation, reduces cabling and associated costs, and enhances reliability.



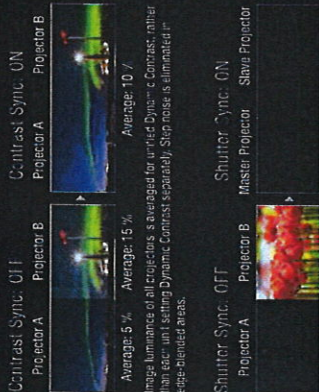
Built-in Geometric Adjustment

Geo Adjustment adapts images for projection onto specially shaped screens with fine-tuning via remote control.

Engineered for Ultimate Flexibility in Multi-screen Staging Applications

Contrast and Shutter Sync Function

Contrast Sync allows Dynamic Contrast Control to be synchronized for consistent picture quality across multiple screens. Shutter Sync, meanwhile, synchronizes shutter on/off timing.



If shutter functions are not linked, shutter ON/OFF timing varies. When shutter functions of slave projectors are linked to a master, shutter ON/OFF timing is uniform.
* Includes fade-in and fade-out effects. Projector's other functions can be set to operate in a usually desired.

Backup Input Guarantees Picture Display

Projectors switch instantly to a backup input* should the primary signal be disrupted, so display is maintained in situations where projection must not be interrupted. No screen-blanking occurs during backup input switching.

*Note: Primary and secondary signals must be the same.

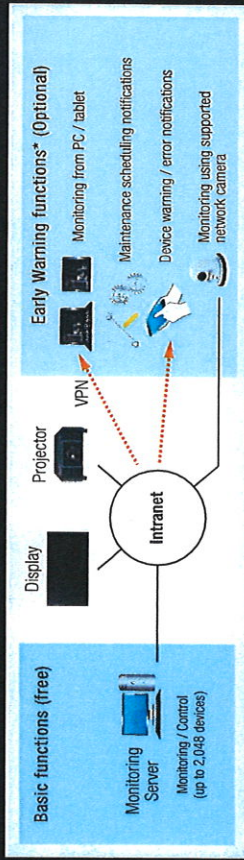


Projectors can be set to switch to a backup source in a matter of milliseconds.

New Multi Monitoring & Control Software

Making its debut with the PT-RZ21K Series, refreshed Panasonic Multi Monitoring & Control Software supports up to 2,048 devices over LAN and features system map visualization or auto-search of devices to be registered. The software is available with Early Warning functions (automatic free 90-day trial is available).

These advanced functions enable real-time monitoring, abnormality detection, and advanced notification when servicing is required. Administrators can realize seamless control and real-time monitoring while preventing potential problems before they occur, saving time and enhancing system reliability.



*Software functionality varies depending on the model.

Multi-unit Brightness and Color Control

Sensors detect color and brightness apparent on screen. Projectors automatically calibrate for a uniform multi-screen image, adding a layer of convenience and cost saving both in short-term and long-term events.

Active 3D Projection Capability

This projector series is compatible with active 3D projection technology. It supports an external transmitter and active-shutter glasses, or an active filter and passive glasses* for viewing 3D images.

Compatible with Panasonic PT-DZ21K/ DZ21K2 Series 3-Chip DLP™ Projectors

The PT-RZ21K Series joins the Panasonic 3-Chip DLP™ projector family in sharing a range of mutually compatible optional accessories including frames and ultra-short-throw and zoom lenses. This reduces upgrade or replacement costs for events and staging companies with large inventories.

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

Art-Net DMX protocol for lighting management enables connection with lighting consoles for added functionality and control options. Creston Connected™ and PJLink™ (Class 2) streamline integration into existing AV infrastructure.

*Active filter and passive glasses are not included. Active filter and passive glasses are available as optional accessories. For more information, please contact your local Panasonic representative.

Additional Features

DICOM Simulation Mode

This imaging mode is similar to the DICOM Part 14 medical imaging standard. It lends a film-like resolution to X-ray images, making the projector suitable for medical presentations and training.

Note: This product is not a medical instrument. Do not use for actual medical diagnosis.

Waveform Monitor Function

If source device output levels fluctuate, the original black and white levels of the image cannot be reproduced correctly. The projector can display these waveforms on screen, where they can be adjusted automatically or manually.

Power Management Reduces Downtime

Auto power management compensates for voltage fluctuations. Image display is maintained at a reduced brightness even if voltage drops below specified requirements, rather than shutting the projector off.

Supports BT.2020 Emulation and HDR

PT-RZ21K Series has emulation for BT.2020, a 4K color-space standard. It reproduces a wider color gamut than conventional standards. Additionally, they support HDR (High Dynamic Range). Image reproduction is stunning, from deepest black to sparkling bright highlights.

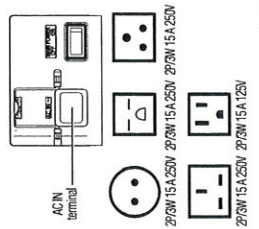
Projection Distance

D (approx. image size)	PT-RZ21K (16:10 aspect ratio)			PT-RZ20K (4:3 aspect ratio)			PT-RZ21K (16:10 aspect ratio)			PT-RZ20K (4:3 aspect ratio)		
	min.	max.	unit	min.	max.	unit	min.	max.	unit	min.	max.	unit
1.78 [70"]	1.6	4.3	(0.5)	1.9	4.9	(0.6)	1.7	4.6	(0.5)	1.9	4.9	(0.6)
2.03 [80"]	1.5	4.7	(0.5)	2.1	5.3	(0.6)	1.8	5.0	(0.6)	2.0	5.3	(0.6)
2.29 [90"]	1.7	5.1	(0.5)	2.4	5.7	(0.6)	2.1	5.4	(0.6)	2.3	5.7	(0.6)
2.54 [100"]	1.9	5.5	(0.6)	2.7	6.1	(0.6)	2.4	5.8	(0.6)	2.6	6.1	(0.6)
3.03 [120"]	2.2	6.4	(0.7)	3.1	7.1	(0.7)	2.8	6.6	(0.7)	3.0	7.1	(0.7)
3.8 [150"]	2.8	8.1	(0.9)	4.0	9.0	(1.0)	3.6	8.3	(1.0)	3.9	9.0	(1.0)
5.0 [200"]	4.2	11.5	(1.3)	5.6	12.6	(1.4)	5.0	11.8	(1.4)	5.4	12.6	(1.4)
6.3 [250"]	5.0	14.0	(1.6)	6.7	15.1	(1.6)	6.0	14.3	(1.6)	6.4	15.1	(1.6)
7.6 [300"]	6.2	17.1	(1.9)	8.1	18.4	(1.9)	7.3	17.6	(1.9)	7.8	18.4	(1.9)
8.8 [350"]	7.3	19.7	(2.1)	9.5	21.0	(2.1)	8.6	19.9	(2.1)	9.1	21.0	(2.1)
10.1 [400"]	8.5	22.4	(2.4)	11.0	23.6	(2.4)	10.0	22.7	(2.4)	10.5	23.6	(2.4)
12.7 [500"]	10.8	28.1	(3.0)	14.0	29.9	(3.0)	12.6	28.9	(3.0)	13.3	29.9	(3.0)
15.2 [600"]	12.9	33.8	(3.5)	16.6	35.6	(3.5)	14.9	34.6	(3.5)	15.7	35.6	(3.5)
17.8 [700"]	14.8	39.5	(4.0)	19.1	41.3	(4.0)	17.0	40.3	(4.0)	17.9	41.3	(4.0)
20.3 [800"]	16.5	45.2	(4.5)	21.6	47.0	(4.5)	19.1	46.0	(4.5)	20.0	47.0	(4.5)
22.8 [900"]	18.1	50.9	(5.0)	24.1	52.8	(5.0)	21.2	51.7	(5.0)	22.1	52.8	(5.0)
25.4 [1000"]	20.2	56.6	(5.5)	26.6	58.6	(5.5)	23.3	57.6	(5.5)	24.2	58.6	(5.5)

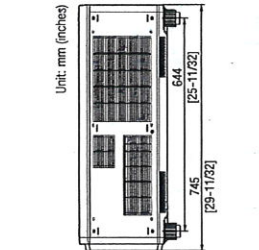
Projection Distance

D (approx. image size)	PT-RZ21K (16:10 aspect ratio)			PT-RZ20K (4:3 aspect ratio)			PT-RZ21K (16:10 aspect ratio)			PT-RZ20K (4:3 aspect ratio)		
	min.	max.	unit	min.	max.	unit	min.	max.	unit	min.	max.	unit
1.78 [70"]	1.6	4.3	(0.5)	1.9	4.9	(0.6)	1.7	4.6	(0.5)	1.9	4.9	(0.6)
2.03 [80"]	1.5	4.7	(0.5)	2.1	5.3	(0.6)	1.8	5.0	(0.6)	2.0	5.3	(0.6)
2.29 [90"]	1.7	5.1	(0.5)	2.4	5.7	(0.6)	2.1	5.4	(0.6)	2.3	5.7	(0.6)
2.54 [100"]	1.9	5.5	(0.6)	2.7	6.1	(0.6)	2.4	5.8	(0.6)	2.6	6.1	(0.6)
3.03 [120"]	2.2	6.4	(0.7)	3.1	7.1	(0.7)	2.8	6.6	(0.7)	3.0	7.1	(0.7)
3.8 [150"]	2.8	8.1	(0.9)	4.0	9.0	(1.0)	3.6	8.3	(1.0)	3.9	9.0	(1.0)
5.0 [200"]	4.2	11.5	(1.3)	5.6	12.6	(1.4)	5.0	11.8	(1.4)	5.4	12.6	(1.4)
6.3 [250"]	5.0	14.0	(1.6)	6.7	15.1	(1.6)	6.0	14.3	(1.6)	6.4	15.1	(1.6)
7.6 [300"]	6.2	17.1	(1.9)	8.1	18.4	(1.9)	7.3	17.6	(1.9)	7.8	18.4	(1.9)
8.8 [350"]	7.3	19.7	(2.1)	9.5	21.0	(2.1)	8.6	19.9	(2.1)	9.1	21.0	(2.1)
10.1 [400"]	8.5	22.4	(2.4)	11.0	23.6	(2.4)	10.0	22.7	(2.4)	10.5	23.6	(2.4)
12.7 [500"]	10.8	28.1	(3.0)	14.0	29.9	(3.0)	12.6	28.9	(3.0)	13.3	29.9	(3.0)
15.2 [600"]	12.9	33.8	(3.5)	16.6	35.6	(3.5)	14.9	34.6	(3.5)	15.7	35.6	(3.5)
17.8 [700"]	14.8	39.5	(4.0)	19.1	41.3	(4.0)	17.0	40.3	(4.0)	17.9	41.3	(4.0)
20.3 [800"]	16.5	45.2	(4.5)	21.6	47.0	(4.5)	19.1	46.0	(4.5)	20.0	47.0	(4.5)
22.8 [900"]	18.1	50.9	(5.0)	24.1	52.8	(5.0)	21.2	51.7	(5.0)	22.1	52.8	(5.0)
25.4 [1000"]	20.2	56.6	(5.5)	26.6	58.6	(5.5)	23.3	57.6	(5.5)	24.2	58.6	(5.5)

Dimensions

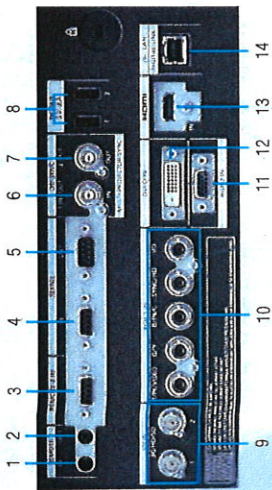


Dimensions

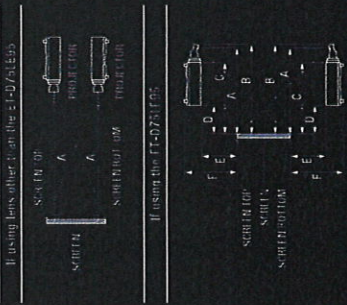


Terminals

1. REMOTE 1 IN terminal
2. REMOTE 1 OUT terminal
3. REMOTE 2 IN terminal
4. SERIAL IN terminal
5. SERIAL OUT terminal
6. MULTI PROJECTOR SYNC IN 3D SYNC 1 IN/OUT terminal
7. MULTI PROJECTOR SYNC OUT 3D SYNC 2 OUT terminal
8. DC OUT 1/DC OUT 2 terminal
9. SDI IN /SDI IN 2 terminal
10. RGB 1 IN terminal
11. RGB 2 IN terminal
12. DVI-D IN terminal
13. HDMI IN terminal
14. LAN/DIGITAL LINK terminal



Dimension Definitions



Dimension Definitions



Specifications

Model	PT-RZ21K	PT-RS20K
Power supply	AC 200 V-240 V, 7.7 A, 50/60 Hz (Light output will decrease to approximately 50 % when using the projector with AC 100 V to AC 120 V (9.6 A))	
Power consumption	1,510 W (0.3 W with Standby Mode set to EDP)*, 4 W with Standby Mode set to NORMAL	
DLP™ chip	24.4 mm (0.96 inches) diagonal (16:10 aspect ratio)	24.1 mm (0.95 inches) diagonal (4:3 aspect ratio)
Display method	DLP™ chip x 3, DLP™ projection system	
Pixels	6,912,000 (1920 x 1200 x 3) pixels	4,410,000 (1400 x 1050 x 3) pixels
Refresh rate	120 Hz*	
Lens	Optional (no lens included with this model)	
Light source	Laser Diode (Laser class: Class 1/Class 3R for US models). Light source life: 20,000 hours (NORMAL Mode, brightness decreases to approx. 50 %) 1.78–25.4 m (70–1,000 in) with 16:10 aspect ratio 1.78–15.24 m (70–600 in) with the ET-D75LE6, 16:10 aspect ratio 3.05–15.24 m (120–600 in) with the ET-D75LE5, 16:10 aspect ratio	
Screen size (diagonal)	21,000 lm (Center)* / 20,000 lm*	
Brightness	90 %	
Center-to-corner uniformity		
Contrast	20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)	1400 x 1050 pixels
Resolution	1920 x 1200 pixels	
Scanning frequency	SMPTES ST 259 compliant, [YPrPb] 4:2:2 10-bit [720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/25p, 1080/24f, 1080/24f, 1080/30p]	
SD-SDI	SMPTES ST 292 compliant, [YPrPb] 4:2:2 10-bit [720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/25p, 1080/24f, 1080/24f, 1080/30p]	
HD-SDI	SMPTES ST 372 compliant, [YPrPb] 4:2:2 10-bit [1080/60i, 1080/50i, 1080/60p]	
Dual-link HD-SDI	[RGB] 4:4:4, 12-bit [10-bit] [1080/60i, 1080/50i, 1080/24p, 1080/25p, 1080/24f, 1080/24f, 1080/30p, 2048 x 1080/24p]	
3G-SDI	SMPTES ST 424/425-2 compliant, [RGB] 4:4:4 12-bit [10-bit] [1080/60i, 1080/50i, 1080/24p, 1080/25p, 1080/24f, 1080/24f, 1080/30p, 2048 x 1080/24p]	
Dual-link 3G-SDI	SMPTES ST 425-3 compliant, [YPrPb] 4:4:4 12-bit [10-bit] [1080/60i, 1080/50i, 1080/24p, 1080/25p, 1080/24f, 1080/24f, 1080/30p, 2048 x 1080/24p]	
Dual-link 3G-SDI	[RGB] 4:4:4, 12-bit [10-bit] [1080/60i, 1080/50i, 1080/24p, 1080/25p, 1080/24f, 1080/24f, 1080/30p, 2048 x 1080/24p]	
HD/MDA-D/DIGITAL LINK	480/60p*, 576/50p*, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24f, 1080/25p, 1080/50p, 1080/60p, 1080/50p, 640 x 480–4036A (1920 x 1200)	
RGB	[H]: 15–109 kHz, [V]: 24–120 Hz, dot clock: 162 MHz or less	
YPbPr (YCbCr)	[H]: 15.73 kHz, [V]: 59.94 Hz [525 (480i)], [H]: 31.47 kHz, [V]: 59.94 Hz [525 (480p)], [H]: 31.25 kHz, [V]: 50 Hz [625 (576i)], [H]: 45.00 kHz, [V]: 60 Hz [750 (720/60p)], [H]: 37.50 kHz, [V]: 50 Hz [750 (720/50p)], [H]: 33.75 kHz, [V]: 60 Hz [1125 (1080/60i)], [H]: 28.13 kHz, [V]: 50 Hz [1125 (1080/50i)], [H]: 28.13 kHz, [V]: 25 Hz [1125 (1080/24p)], [H]: 27.00 kHz, [V]: 24 Hz [1125 (1080/24f)], [H]: 67.50 kHz, [V]: 60 Hz [1125 (1080/60p)], [H]: 56.25 kHz, [V]: 50 Hz [1125 (1080/50p)]	
Video/VC	[H]: 15.73 kHz, [V]: 59.94 Hz (NTSC/NTSC4.43/PAL-M/PAL60), [H]: 15.63 kHz, [V]: 50 Hz (PAL/PAL-N/SECAM)	
Vertical (from center of screen)	±55 % (±44 % with ET-D75LE6, ±68 % ±78 % with ET-D75LE5) (powered)	±50 % (±40 % with ET-D75LE6, ±67 % ±71 % with ET-D75LE5) (powered)
Horizontal (from center of screen)	±20 % (±15 % with ET-D75LE6, ±12 % with ET-D75LE5) (powered)	±30 % (±20 % with ET-D75LE6, ±8 % with ET-D75LE5) (powered)
Keystone correction range	Vertical: ±40° (±22° with ET-D75LE5), ±28° with ET-D75LE6, Horizontal: ±15°	
Keystone correction range with optional Upgrade Kit ET-UK20	Vertical: ±45° (±40° with ET-D75LE5/20), ±22° with ET-D75LE6, ±25° with ET-D75LE5 Horizontal: ±40° (±15° with ET-D75LE5/20), up to a total of ±45° during simultaneous horizontal and vertical correction	
Installation	Horizontal/vertical, free 360-degree installation	
Terminals	SDI IN 1: BNC x 1; 3G/HD/SD-SDI Input, Dual-link HD-SDI (Link-A), Dual-link 3G-SDI (Link 1) SDI IN 2: BNC x 1; 3G/HD/SD-SDI Input, Dual-link HD-SDI (Link-B), Dual-link 3G-SDI (Link 2) HDMI IN: HDMI x 1 (Deep Color, compatible with HDCP) DVI-D IN: DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP) (Single-link only) RGB 1 IN: RGB x 1 (BNC x 5); RGB/YPrPb/VC/VIDEO RGB 2 IN: D-sub HD 15-pin (female) x 1; RGB/YPrPb MULTI PROJECTOR SYNC IN / 3D SYNC 1 IN/OUT: BNC x 1 MULTI PROJECTOR SYNC OUT / 3D SYNC 2 OUT: BNC x 1 SERIAL IN: D-sub 9-pin (female) x 1 for external control (RS-232C compliant) SERIAL OUT: D-sub 9-pin (male) x 1 for link control REMOTE 1 IN / OUT: MG x 1 for wired remote control, link control REMOTE 2 IN: D-sub 9-pin (female) x 1 for external control (parallel) DC OUT: USB (Type-A) x 2, DC 5 V, total of 2 A LAN/DIGITAL LINK: RJ-45 x 1 for network, DIGITAL LINK connection, 100Base-TX, compatible with Air-Net, P.Link™ (Class 2), Deep Color, HDCP	
Dimensions (W x H x D)	598 x 270 x 725 mm (23.175" x 10.63" x 28.712") (not including protruding parts)	
Weight	49.0 lb (108 lbs)	
Operation noise*1	46 dB	
Cabinet materials	Molded plastic	
Operating environment	Operating temperature: 0–50 °C (32–122 °F)*; Operating humidity: 10–80 % (no condensation)	
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro (ET-UK20 Upgrade Kit, ET-CUK10 Auto Screen Adjustment Kit), Smart Projector Control	

* When using a 100 V power supply, the power consumption will be approximately 1,000 W. *1: Measured at 1 m distance. *2: Measured at 1 m distance. *3: Measured at 1 m distance. *4: Measured at 1 m distance. *5: Measured at 1 m distance. *6: Measured at 1 m distance. *7: Measured at 1 m distance. *8: Measured at 1 m distance. *9: Measured at 1 m distance. *10: Measured at 1 m distance. *11: Measured at 1 m distance. *12: Measured at 1 m distance. *13: Measured at 1 m distance. *14: Measured at 1 m distance. *15: Measured at 1 m distance. *16: Measured at 1 m distance. *17: Measured at 1 m distance. *18: Measured at 1 m distance. *19: Measured at 1 m distance. *20: Measured at 1 m distance. *21: Measured at 1 m distance. *22: Measured at 1 m distance. *23: Measured at 1 m distance. *24: Measured at 1 m distance. *25: Measured at 1 m distance. *26: Measured at 1 m distance. *27: Measured at 1 m distance. *28: Measured at 1 m distance. *29: Measured at 1 m distance. *30: Measured at 1 m distance. *31: Measured at 1 m distance. *32: Measured at 1 m distance. *33: Measured at 1 m distance. *34: Measured at 1 m distance. *35: Measured at 1 m distance. *36: Measured at 1 m distance. *37: Measured at 1 m distance. *38: Measured at 1 m distance. *39: Measured at 1 m distance. *40: Measured at 1 m distance. *41: Measured at 1 m distance. *42: Measured at 1 m distance. *43: Measured at 1 m distance. *44: Measured at 1 m distance. *45: Measured at 1 m distance. *46: Measured at 1 m distance. *47: Measured at 1 m distance. *48: Measured at 1 m distance. *49: Measured at 1 m distance. *50: Measured at 1 m distance. *51: Measured at 1 m distance. *52: Measured at 1 m distance. *53: Measured at 1 m distance. *54: Measured at 1 m distance. *55: Measured at 1 m distance. *56: Measured at 1 m distance. *57: Measured at 1 m distance. *58: Measured at 1 m distance. *59: Measured at 1 m distance. *60: Measured at 1 m distance. *61: Measured at 1 m distance. *62: Measured at 1 m distance. *63: Measured at 1 m distance. *64: Measured at 1 m distance. *65: Measured at 1 m distance. *66: Measured at 1 m distance. *67: Measured at 1 m distance. *68: Measured at 1 m distance. *69: Measured at 1 m distance. *70: Measured at 1 m distance. *71: Measured at 1 m distance. *72: Measured at 1 m distance. *73: Measured at 1 m distance. *74: Measured at 1 m distance. *75: Measured at 1 m distance. *76: Measured at 1 m distance. *77: Measured at 1 m distance. *78: Measured at 1 m distance. *79: Measured at 1 m distance. *80: Measured at 1 m distance. *81: Measured at 1 m distance. *82: Measured at 1 m distance. *83: Measured at 1 m distance. *84: Measured at 1 m distance. *85: Measured at 1 m distance. *86: Measured at 1 m distance. *87: Measured at 1 m distance. *88: Measured at 1 m distance. *89: Measured at 1 m distance. *90: Measured at 1 m distance. *91: Measured at 1 m distance. *92: Measured at 1 m distance. *93: Measured at 1 m distance. *94: Measured at 1 m distance. *95: Measured at 1 m distance. *96: Measured at 1 m distance. *97: Measured at 1 m distance. *98: Measured at 1 m distance. *99: Measured at 1 m distance. *100: Measured at 1 m distance.

Optional Accessories



ET-D75LE50
Fixed-focus lens

ET-D75LE6
Zoom lens

ET-D75LE10
Zoom lens

ET-D75LE20
Zoom lens

ET-D75LE30
Zoom lens

ET-D75LE40
Zoom lens

ET-D75LE50
Zoom lens

ET-D75LE6
Zoom lens

ET-D75LE10
Zoom lens

ET-D75LE30
Zoom lens

ET-D75LE8
Zoom lens

ET-PKD520H
Ceiling Mount Bracket for High Ceilings

ET-PKD520S
Ceiling Mount Bracket for Low Ceilings

ET-PFD510*
Frame

ET-UK20
Geometry Manager Pro Software Upgrade Kit

ET-SWA100 Series*
Early Warning Software

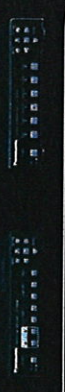
ET-D75WKS10*
Smart Projector Kit

ET-CUK10 / ET-CUK10P
Auto Screen Adjustment Upgrade Kit

ET-PLF10*
Lens Lock/Release Bracket

ET-YFB200G
Digital Filter for Box

ET-YFB100G
Digital Filter for Box



Panasonic

For more information about Panasonic projectors, please visit:
Projector Global Website - panasonic.net/cns/projector
Facebook - www.facebook.com/panasonicprojector
YouTube - www.youtube.com/user/PanasonicProjector



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PT-RZ21KG Printed in Japan.

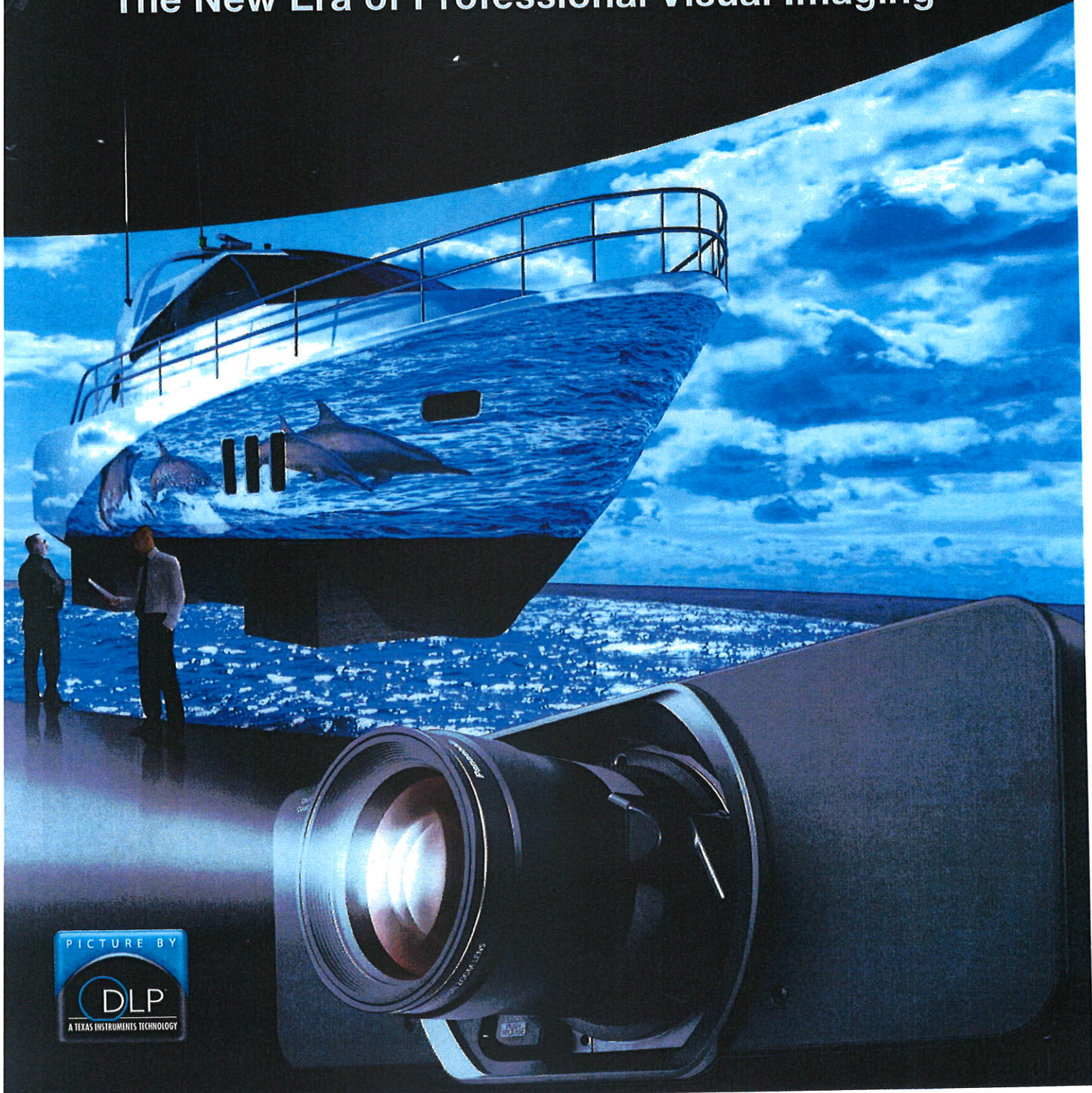
Panasonic

PT-DZ13K Series

3-Chip DLP™ Projectors

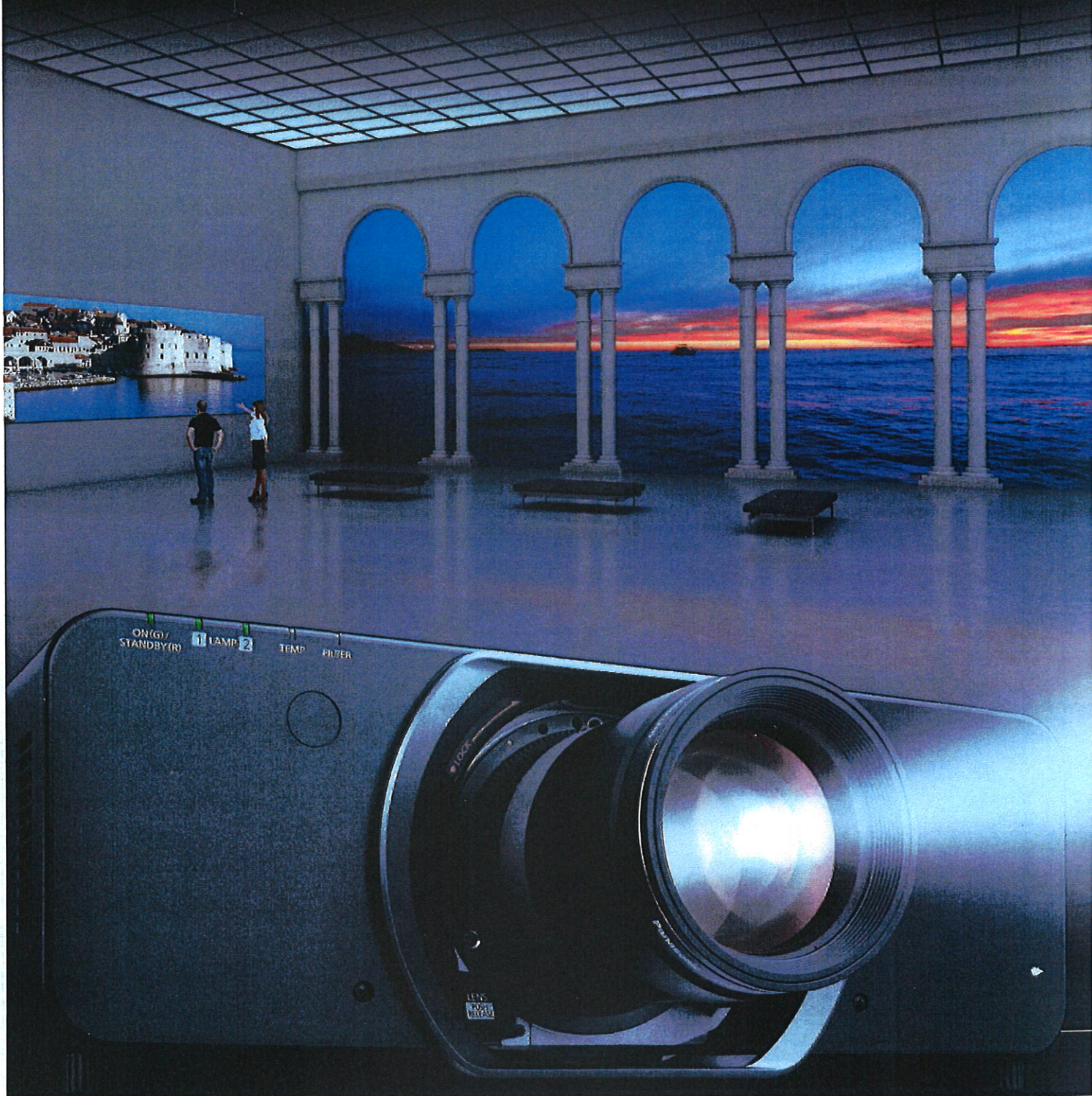
PT-DZ13K
PT-DS12K
PT-DW11K
PT-DZ10K

The New Era of Professional Visual Imaging



Higher Brightness, Picture Quality and Reliability—All in a Compact Body

The Panasonic PT-DZ13K Series of 3-chip DLP™ projectors combine high levels of picture quality, reliability, function and system expandability into a compact body. Packed with original, advanced Panasonic technology, these projectors supply the flexibility to meet a wide range of applications.



High Brightness and Picture Quality

Compact Yet Bright

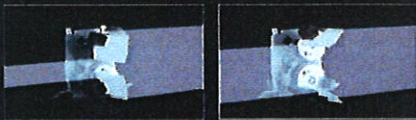
Panasonic's original dual-lamp system**1, with its new 380 W**2 lamp, helps to make the body compact, while providing a full 12,000 lm**3 of brightness with 120 VAC operation. The replacement lamp unit (ET-LAD310A/ET-LAD310AW) can be used with all of the PT-DZ8700/PT-DZ110X Series**4 projectors. This reduces the number of lamp types that need to be kept in stock when multiple projectors are used.

Full-HD Ready WUXGA Resolution

The PT-DZ13K/DZ10K features native WUXGA resolution for full-HD viewing. This brings you lifelike projection of intricate, highly detailed images.

Dynamic Iris for a High 10,000:1**5 Contrast Ratio

Panasonic's Dynamic Iris uses a scene-linking aperture mechanism to achieve a remarkable 10,000:1**5 contrast without lowering its high brightness. This helps to reproduce deeper, richer blacks, and provides images with more detailed textures.



Detail Clarity Processor 3 Gives Natural Clarity to Even the Finest Details

This unique Panasonic circuit optimizes the sharpness of each image, based on the superhigh-, high-, medium-, and low-frequency components of the extracted image information. The resulting images have more natural, lifelike expression.

PT-DZ13K
WUXGA 12,000 lm

PT-DS12K
SXGA+ 12,000 lm

PT-DW11K
WXGA 11,000 lm

PT-DZ10K
WUXGA 10,600 lm



Without Detail Clarity Processor 3



PT-DZ13K Series with Detail Clarity Processor 3

System Daylight View 2 for Enhanced Color Perception

This unique Panasonic technology optimizes image quality to improve the color perception of the projected image in bright rooms. With a brightness of 12,000 lm**3, it provides highly comfortable viewing even in bright lighting, and allows viewers to concentrate easily on the images.

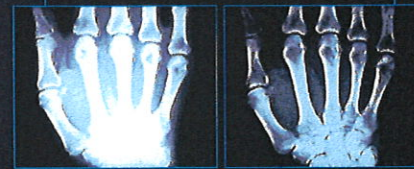
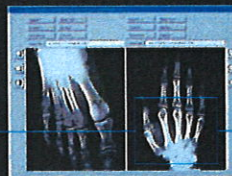


Without System Daylight View 2

PT-DZ13K Series with System Daylight View 2

DICOM Simulation Mode**6

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



Normal mode

DICOM simulation mode

Active 3D Projection Capability (PT-DZ13K/DS12K/DW11K)

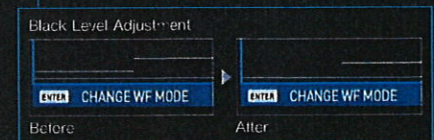
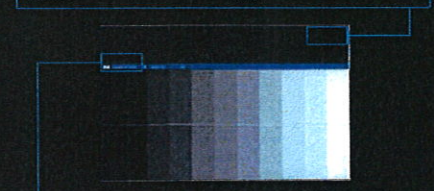
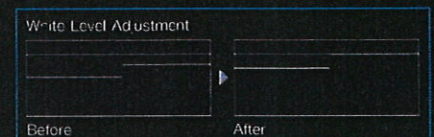
The series is compatible with both passive and active 3D projection systems.

It combines with either a separate, external 100/120/144 Hz drive with IR emitter and active shutter glasses, or an active filter and passive glasses, for viewing 3D images.



Waveform Monitor Function

When the output level of the source device fluctuates due to the performance of the device or its cable connections, the original black and white levels of the image content cannot be reproduced correctly. With the PT-DZ13K Series projector you can view the waveforms on the screen and adjust the settings either automatically or manually as you prefer.



Rec. 709 Mode for HDTV Projection

Optimal color reproduction can be achieved by selecting this mode, compliant with ITU-R Recommendation BT.709, when images from an HDTV source are projected.

Advanced Technologies for Excellent Image Quality

- 3D color management system
- Full 10-bit image processing
- Progressive cinema scan (3:2 pulldown)
- Dynamic sharpness control
- Digital noise reduction
- IP conversion
- AI scene control
- 2:2 pulldown mode
- sRGB compatibility
- Fine-adjustable color temperature

- **1 If the projector is to be operated continuously 24 hours a day / 7 days a week, use the dual-lamp optical system's alternating lamp operation (lamp changer) function. The projector cannot be operated continuously 24 hours a day / 7 days a week in dual-lamp mode. Allow a minimum of two hours per week of non-operation time per lamp if using the dual-lamp mode.
- **2 For the PT-DZ13K DS12K/DW11K, 385 W lamp (for the PT-DZ10K).
- **3 The PT-DW11K has 11,000 lm of brightness and PT-DZ13K has 10,600 lm brightness.
- **4 PT-DZ8700/DS8500/DW8300/DZ110X DS100X/DW90X.
- **5 Full on/off, with dynamic iris set to "3".
- **6 This product is not a medical instrument. Do not use it for actual medical diagnosis.

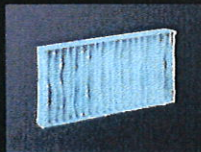
Reliability and Stability

Panasonic's Original Dual Lamp System

This system eliminates the interruption if a lamp should fail (in dual-lamp operation mode). The Lamp Relay mode also operates the lamps alternately to enable 24/7 projection.

Eco Filter that Needs No Maintenance for up to 12,000 Hours*

The Eco Filter has an electrostatic Micro Cut Filter that collects minute dust particles with an ion effect. It combines with the dust-resistant cabinet to enable long-term use even under harsh conditions. Its maintenance cycle of up to 12,000 hours reduces hassle, and the environmental design lets you wash the filter with water and reuse it.*

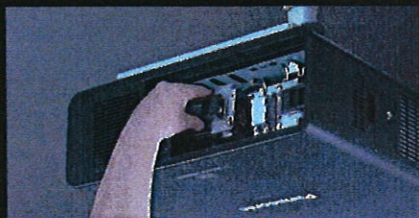


Low TCO and an Environmentally Friendly Design

The PT-DZ13K Series projectors lower the total cost of ownership because they have a lamp replacement cycle of up to 2,500 hours.¹⁹ Their environmentally friendly design also includes a low power consumption of 1,000 W.

Easy Lamp Replacement

For easier maintenance, you can replace the lamp from the rear. This makes it easy to replace a lamp unit while the projector is still in the mounting bracket or dual stacked.



Optional Smoke Cut Filter ET-SFD320

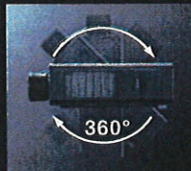
The projector can be equipped with an optional, extra-strong air filter to prevent the entry of smoke, such as those used for special effects at events and stage performances.



System Integration Flexibility

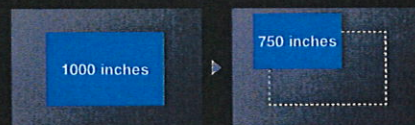
Flexible Installation

The wide adjustment range of the powered horizontal/vertical lens shift function can be easily adjusted with the remote control. The unit can also be rotated 360° vertically, to accommodate various installation conditions. The lens-centered design contributes to easy installation.



Lens Memory¹⁰

The settings of projection size, lens shift position, and focus/zoom can be stored in memory and recalled for instant switching.



A Wide Selection of Lenses (optional)

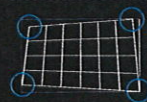
Choose from a wide lineup of lenses for your system, including short-throw, long-throw zoom and fixed-throw lenses for rear projection use. The additional lenses make it easy to adapt your projector to the installation site. The lenses attach and detach with one-touch ease.

New Geometric Adjustment¹¹ for Specially Shaped Screens (PT-DZ13K/DS12K)

This function adjusts the image for projection onto spherical, cylindrical and other specially shaped screens. You can make the adjustment easily using only the remote control, with no external equipment needed.



Flexible calibration lets you project onto curved surfaces.



Each corner can be independently adjusted, and up to three sets of adjusted data can be stored.



You can keep the aspect on when correcting curves. To make effective use of the screen area, you can also turn the aspect-keeping function off.

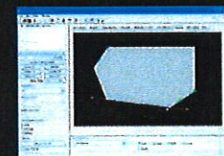


Crestron RoomView™ and AMX Device Discovery

The LAN terminal allows a computer connected to the network to use Crestron RoomView™ application software to manage and control system devices. Besides, The AMX Device Discovery technology is built in the PT-DZ13K Series projector.

Optional Upgrade Kit Featuring Geometry Manager Pro (PT-DZ13K/DS12K)

The new Geometry Manager Pro software included in the optional upgrade kit supports Color Matching, Edge Blending, uniformity correction, and other useful functions for multiprojector setups (max. 32 units). It also allows creative masking using four lines or bitmap data. And its flexible and complex geometric adjustment capability suits a wide variety of screen shapes.



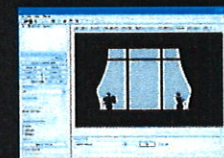
Line masking



Create masking data...



Use it to overlap the projection image...



Bitmap masking: Detailed masking is also possible. Up to three of masking data can be stored.



And the image is projected only in the designated areas.

Multi-Unit Brightness Control

This function automatically corrects the brightness fluctuations that occur over time in the individual projectors of a multi-screen system. Up to eight projectors can be controlled by connecting to each other via a hub, and this can be increased to a maximum of 2,048 projectors by using "Multi Projector Monitoring & Control Software Ver. 2.8."

Conventional Projector

At the time when the projectors are installed (A)



Projector 1 Projector 2

After a certain time has passed (B)



Multi-Unit Brightness Control "ON"

At the time when the projectors are installed (A)



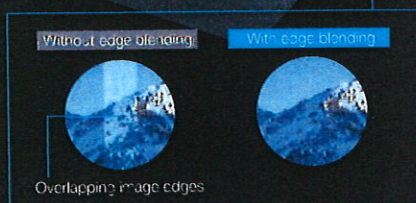
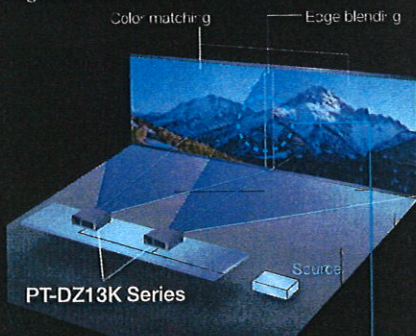
Projector 1 Projector 2

After a certain time has passed (B)



Multi-Screen Support System Seamlessly Connects Multiple Screens

- **Edge Blending**
The edges of adjacent screens can be blended and their luminance controlled.
- **Color Matching**
This function corrects for slight variations in the color reproduction range of individual projectors. The PC software assures easy, accurate control.
- **Multi-Screen Processor**
The PT-DZ13K Series can project large, multiscreen images without any additional equipment. Up to 100 units can be edgeblended at a time.



Portrait Mode Capability (optional)¹²

Portrait projection is possible by mounting the optional ET-LAD320P or ET-LAD320PW lamp units, updating the projector's firmware to MAIN Ver. 2.00 or later, and installing the projector with its terminal side surface facing downward.



Multiple Terminals with HD-SDI Compatibility

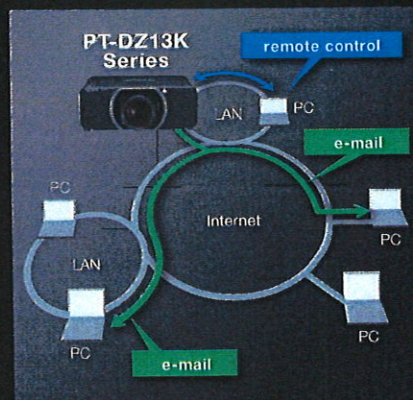
The PT-DZ13K Series has an array of terminals, including two SDI (Dual Link HD-SDI, 3G SDI and HD SDI),¹³ 3D sync¹⁴, DVI-D and HDMI terminals.

Multi Projector Monitoring & Control Software Ver. 2.8

Panasonic's original Multi Projector Monitoring & Control Software Ver. 2.8 freeware lets you control and monitor multiple projectors at the same time over a wired LAN. If a problem occurs, an alarm message is sent to the monitoring/controlling PC.

Web Browser Control

The PT-DZ13K Series can be easily operated remotely over a LAN network, because it is all done using the computer's familiar web browser. Furthermore, the projector sends an e-mail message to notify the operator when an error has occurred, or a lamp needs to be replaced.



Other Valuable Features

- PJI ink™ compatibility
- P-in-P function¹⁵
- Mechanical lens shutter with fade in/out effect
- Scheduling function
- Direct power off
- 30 m long-range wireless remote control with LED backlight
- Anti-theft features with chain opening
- Control device setup function
- 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



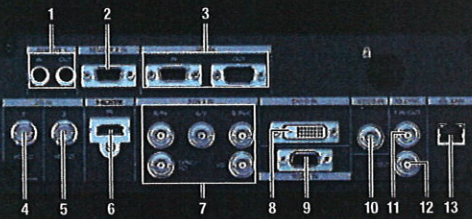
The PT-DZ13K Series projector are carefully manufactured at the Panasonic factory in Japan, under strict quality control. This is another, very important advantage of a Panasonic projector.

Ecology-conscious Design

- No halogenated flame retardants are used in the cabinet.
- Lead-free solder is used to mount components to the printed circuit boards.
- Stand-by power consumption of only 0.3 W (0.2 W for 120 V AC).¹⁶
- Auto Power Save activates standby mode when no signal is input.
- 7 The usage environment affects the filter maintenance cycle.
- 8 When washing with water, please follow the procedures listed in the operating instructions. Also, we recommend replacing the filter with a new one after it has been washed and reused twice. If the filter is not sufficiently clean after washing, replace it with a new one.
- 9 With the LAMP POWER set to HIGH mode, 3,500 hours for the PT-DZ10K. With the LAMP POWER set to NORMAL mode, the usage environment affects the lamp replacement cycle.
- 10 The settings stored in memory and the projection condition after recall may not match perfectly.
- 11 For the PT-DZ13K/DS12K only. The PT-DZ10K has the same Geometric Adjustment function that is featured on the previous models. The PT-DW11K features neither of them.
- 12 Please contact the sales representative with regard to the frame for portrait or entalon. Installation is possible only with the terminal side facing downward. Horizontal rotation and vertical rotation are both limited to 15 degrees. Also, the lamp replacement cycle becomes 500 hours, and this cycle is affected by the usage environment. In Portrait mode, the maximum brightness becomes 10,000 lm for the PT-DZ13K/DS12K and 9,000 lm for the PT-DW11K.
- 13 For the PT-DZ13K and PT-DS12K only. The PT-DZ10K has one SDI connector and does not accept dual-link HD SDI signals.
- 14 Not featured on the PT-DZ10K.
- 15 This function cannot be used with some input signals and selected inputs.
- 16 With the standby mode set to Eco.



Terminals



- 1 Remote 1 nput
- 2 Remote 2 nput
- 3 Serial input/output
- 4 SDI 1 incut
- 5 SDI 2 incut
- 6 HDMI input
- 7 RGB 1 nput
- 8 DVI-D nput
- 9 RGB 2 nput
- 10 Video nput
- 11 3D sync. 1 nput/output
(PT-DZ13K/DS*2K/
DZ*DK only)
- 12 3D sync. 2 nput
(PT-DZ13K/DS*2K only)
- 13 LAN connector

Projection distance

PT-DZ13K/DZ10K (16:10 aspect ratio)

Diagonal image size	Throw distance													
	ET-D75LE6 0.9-1.11		E-D75LE10 1.3-1.71		ET-D75LE20 1.7-2.41		E-D75LE30 2.4-4.7*		ET-D75LE40 4.6-7.41		ET-D75LE8 7.3-13.81		ET-D75LE50 0.71	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
1.75 [70]	1.35 (4.5)	1.62 (5.3)	1.90 (6.3)	2.46 (8.1)	2.41 (8.1)	3.57 (11.8)	3.57 (11.8)	6.84 (22.8)	6.87 (22.8)	11.23 (36.9)	10.78 (35.4)	28.76 (93.5)	1.91 (6.3)	1.91 (6.3)
2.54 [100]	1.96 (6.5)	2.34 (7.7)	2.73 (9.1)	3.56 (11.7)	3.56 (11.7)	5.17 (17.0)	5.13 (17.0)	9.39 (32.8)	9.39 (32.8)	15.85 (52.3)	15.57 (51.1)	29.53 (96.9)	1.47 (4.8)	1.47 (4.8)
3.8" [150]	2.95 (9.7)	3.65 (11.7)	4.18 (13.8)	5.40 (17.8)	5.40 (17.8)	7.77 (25.7)	7.77 (25.7)	14.00 (49.5)	14.00 (49.5)	23.85 (78.3)	23.54 (77.3)	44.47 (146.0)	2.24 (7.4)	2.24 (7.4)
5.0" [200]	3.97 (13.1)	4.75 (15.6)	5.40 (18.4)	7.24 (23.8)	7.24 (23.8)	10.45 (34.3)	10.45 (34.3)	19.38 (65.4)	19.38 (65.4)	31.85 (104.3)	31.52 (103.5)	59.41 (195.0)	3.01 (9.9)	3.01 (9.9)
7.62 [300]	5.99 (19.7)	7.17 (23.6)	8.44 (27.7)	10.91 (35.8)	10.91 (35.8)	15.73 (51.7)	15.73 (51.7)	29.37 (99.5)	29.37 (99.5)	47.87 (157.0)	47.47 (155.8)	89.98 (293.9)	4.56 (15.0)	4.56 (15.0)
10.16 [400]	8.00 (26.3)	9.58 (31.5)	11.28 (37.1)	14.58 (47.9)	14.58 (47.9)	21.07 (69.0)	21.07 (69.0)	39.51 (132.9)	39.51 (132.9)	63.87 (209.1)	63.42 (208.1)	119.19 (391.1)	6.10 (20.0)	6.10 (20.0)
12.7 [500]	10.01 (32.9)	11.99 (37.4)	14.12 (46.4)	18.25 (59.4)	18.25 (59.4)	26.27 (86.3)	26.11 (86.3)	50.68 (164.2)	50.68 (164.2)	79.85 (262.1)	79.37 (260.5)	143.08 (469.1)	7.64 (25.1)	7.64 (25.1)
15.24 [600]	12.03 (39.5)	14.40 (47.3)	16.96 (55.7)	21.93 (72.0)	21.73 (71.3)	31.58 (103.6)	31.55 (103.6)	59.85 (192.9)	59.89 (193.7)	95.99 (316.6)	95.32 (312.8)	178.96 (567.2)	9.18 (30.1)	9.18 (30.1)
25.4 [1000]	20.98 (69.9)	24.95 (79.9)	28.53 (92.9)	35.61 (120.3)	35.61 (120.3)	57.77 (182.9)	57.33 (182.9)	109.25 (359.9)	109.33 (360.7)	179.33 (572.7)	179.13 (572.1)	339.13 (1064.1)	15.35 (50.4)	15.35 (50.4)

PT-DS12K (4:3 aspect ratio)

Diagonal image size	Throw distance													
	ET-D75 F6 1.0-1.21		E-D75LE10 1.4-1.81		ET-D75LE20 1.8-2.41		E-D75LE30 2.6-5.11		ET-D75LE40 5.5-8.01		ET-D75LE8 7.5-15.01		ET-D75LE50 0.8*	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
1.75 [70]	1.39 (4.6)	1.66 (5.5)	1.95 (6.4)	2.52 (8.3)	2.52 (8.3)	3.66 (12.1)	3.66 (12.1)	7.02 (23.0)	7.02 (23.0)	11.29 (37.0)	11.29 (37.0)	21.14 (69.4)	1.93 (6.3)	1.93 (6.3)
2.54 [100]	2.01 (6.7)	2.41 (7.9)	2.82 (9.3)	3.64 (12.0)	3.63 (12.0)	5.28 (17.4)	5.24 (17.4)	10.21 (33.6)	10.19 (33.6)	16.9 (55.1)	16.01 (52.6)	30.36 (99.6)	1.50 (4.9)	1.50 (4.9)
3.8" [150]	3.05 (10.0)	3.63 (12.0)	4.27 (14.2)	5.52 (18.2)	5.49 (18.0)	7.95 (26.2)	7.32 (26.2)	15.41 (50.6)	15.23 (50.6)	24.37 (80.6)	24.21 (79.5)	45.72 (150.9)	2.29 (7.5)	2.29 (7.5)
5.0" [200]	4.08 (13.4)	4.86 (16.1)	5.72 (18.8)	7.39 (25.3)	7.34 (24.1)	10.67 (35.1)	10.60 (35.1)	20.60 (66.8)	20.36 (66.8)	32.54 (106.4)	32.40 (106.4)	61.88 (200.4)	3.08 (10.0)	3.08 (10.0)
7.62 [300]	6.15 (20.2)	7.37 (24.7)	8.62 (28.3)	11.14 (36.5)	11.06 (36.3)	15.77 (52.1)	15.98 (52.4)	30.99 (101.7)	30.61 (100.4)	46.55 (150.4)	46.50 (150.4)	91.79 (301.7)	4.56 (15.1)	4.56 (15.1)
10.16 [400]	8.22 (27.0)	9.85 (32.4)	11.52 (37.9)	14.90 (49.9)	14.77 (49.5)	21.45 (70.9)	21.31 (70.9)	41.39 (135.8)	41.27 (135.8)	65.75 (214.1)	65.16 (213.9)	127.51 (402.0)	6.23 (20.4)	6.23 (20.4)
12.7 [500]	10.29 (33.8)	12.33 (40.5)	14.42 (47.4)	18.65 (61.7)	18.45 (61.2)	26.86 (88.2)	26.67 (87.5)	51.77 (169.9)	51.12 (167.7)	78.15 (257.7)	77.38 (257.7)	152.23 (492.8)	7.81 (25.6)	7.81 (25.6)
15.24 [600]	12.35 (40.6)	14.81 (48.6)	17.33 (56.9)	22.40 (72.5)	22.22 (72.5)	32.25 (105.9)	32.03 (105.1)	62.15 (204.0)	61.38 (201.4)	97.35 (321.4)	97.38 (321.5)	183.95 (580.6)	9.38 (30.3)	9.38 (30.3)
25.4 [1000]	20.84 (67.7)	24.73 (81.1)	28.93 (94.9)	37.40 (122.7)	37.05 (121.9)	53.84 (176.9)	53.45 (176.4)	103.71 (343.3)	102.41 (340.6)	153.36 (506.2)	153.36 (506.2)	300.61 (956.1)	15.58 (51.5)	15.58 (51.5)

PT-DW11K 16:9 aspect ratio

Diagonal image size	Throw distance													
	ET-D75LE6 1.2-1.21		E-D75LE10 1.4-1.91		ET-D75LE20 1.8-2.71		E-D75LE30 2.7-5.21		E-D75LE40 5.1-8.21		ET-D75LE8 7.2-15.41		ET-D75LE50 0.8*	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
1.75 [70]	1.56 (5.2)	1.67 (5.5)	2.18 (7.2)	2.92 (9.3)	2.82 (9.3)	4.12 (13.5)	4.07 (13.4)	7.94 (26.1)	7.86 (26.1)	12.52 (41.2)	12.43 (41.1)	23.55 (77.8)	1.16 (3.8)	1.16 (3.8)
2.54 [100]	2.25 (7.4)	2.70 (8.9)	3.16 (10.4)	4.28 (14.1)	4.26 (14.1)	6.37 (21.4)	6.31 (21.3)	11.42 (37.5)	11.39 (37.4)	19.44 (63.6)	19.34 (63.5)	37.34 (122.8)	1.69 (5.5)	1.69 (5.5)
3.8" [150]	3.41 (11.2)	4.08 (13.4)	4.78 (15.7)	6.18 (20.3)	6.14 (20.2)	8.92 (29.3)	8.86 (29.3)	17.23 (56.9)	17.02 (56.9)	27.21 (88.9)	27.08 (88.9)	51.10 (167.1)	2.57 (8.4)	2.57 (8.4)
5.0" [200]	4.56 (15.0)	5.47 (18.0)	6.40 (21.0)	8.27 (27.2)	8.21 (27.0)	11.93 (39.2)	11.83 (39.2)	23.03 (76.6)	22.79 (76.6)	38.26 (124.1)	38.23 (124.1)	74.25 (229.8)	3.45 (11.5)	3.45 (11.5)
7.62 [300]	6.67 (22.3)	8.24 (27.1)	9.84 (31.7)	12.48 (41.9)	12.36 (40.9)	17.96 (59.0)	17.83 (59.0)	34.23 (113.7)	34.28 (113.7)	54.62 (179.2)	54.54 (179.2)	102.55 (336.5)	5.21 (17.1)	5.21 (17.1)
10.16 [400]	9.18 (30.2)	11.01 (36.2)	12.88 (42.3)	16.65 (54.7)	16.50 (54.2)	23.95 (78.7)	23.81 (78.2)	46.23 (151.7)	45.66 (151.7)	72.88 (239.5)	72.55 (239.1)	136.85 (449.9)	6.97 (22.9)	6.97 (22.9)
12.7 [500]	11.49 (37.1)	13.78 (45.2)	16.12 (52.9)	20.84 (68.4)	20.65 (68.4)	30.21 (98.5)	29.90 (98.5)	57.53 (182.8)	57.11 (182.8)	91.14 (299.0)	91.16 (299.1)	171.16 (531.5)	8.72 (28.6)	8.72 (28.6)
15.24 [600]	13.80 (45.3)	16.55 (54.3)	19.35 (63.3)	25.02 (82.1)	24.80 (81.4)	36.03 (118.3)	35.78 (117.4)	63.43 (212.8)	63.55 (213.1)	109.40 (359.2)	109.47 (359.2)	205.46 (644.1)	10.48 (34.4)	10.48 (34.4)
25.4 [1000]	23.04 (75.6)	27.63 (90.8)	32.32 (107.1)	41.78 (137.1)	41.38 (135.8)	60.15 (197.3)	59.71 (195.9)	115.33 (380.0)	114.38 (378.3)	182.44 (586.6)	182.44 (586.6)	352.70 (1099.4)	17.52 (57.9)	17.52 (57.9)

NOTES ON USE

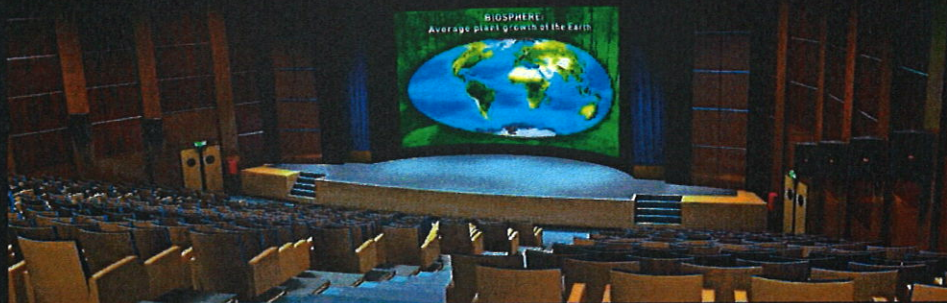
1. Do not install the projector on locations that are subject to excessive water humidity, steam, or alkalis. Doing so may result in fire, malfunction or other damage.
2. The projector uses a halogen lamp. The lamp has an internal fuse. The lamp may break, emitting a large amount of heat. Be careful not to touch the lamp for extended use.
3. The projector uses a replaceable lamp that becomes a fire hazard if used at an aspect ratio other than the aspect ratio of the projector. Observe the following precautions:
 - Never place objects on top of the projector while it is operating.
 - Make sure there is an unobstructed space of 500 mm (19.7") for air flow around the projector's exhaust openings.
 - Do not use the projector on top of any other projector. The purpose of multiple projectors is to provide the amount of space indicated below them. These space requirements also apply to installation where only one projector is used as a backup.
 - If the projector is placed on a box or enclosure, the temperature of the enclosure and the projector must be between 0°C (32°F) and 50°C (104°F). Also make sure the projector's fan and exhaust openings are not blocked. Take particular care to ensure that hot air from the dust separator is not directed into the room.
4. In the projector's "E" operation mode, the lamp life is approximately 25,000 hours at 100% duty. The lamp life is approximately 25,000 hours at 100% duty in the projector's "E" operation mode. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.
 - The length of time that it takes for the lamp to break or fail to illuminate varies according to the projector's lamp characteristics and usage conditions.
 - The brightness of the lamp will gradually decrease with use.
 - The usage of "E" mode affects the projector's life cycle.
5. Do not use the PT-DZ13K as a short-throw lens. The lens shift function cannot be used with it.
6. Due to natural characteristics of lamps, light brightness may vary after use. This is not an indication of faulty lamp performance.

Optional accessories

- ET-D75LE6 Zoom lens
- ET-D75LE10 Zoom lens
- ET-D75LE20 Zoom lens
- ET-D75LE30 Zoom lens
- ET-D75LE40 Zoom lens
- ET-D75LE8 Zoom lens
- ET-D75LE50 Zoom lens
- ET-D75MC1 Lens motor cover
- ET-PKD310H Ceiling mount bracket for high ceilings
- ET-PKD310S Ceiling mount bracket for low ceilings
- ET-PAD310 Attachment for ceiling mount bracket
- ET-PFD310 Frame
- ET-EMF320 Replacement filter unit
- ET-SFD320 Smoke cut filter
- ET-SFR320 Replacement smoke cut filter
- ET-LAD310A Replacement lamp unit (one bulb)
- ET-LAD310AW Replacement lamp unit (a set of two bulbs)
- ET-LAD320P Replacement lamp unit for portrait mode (one bulb)
- ET-LAD320PW Replacement lamp unit for portrait mode (a set of two bulbs)



High education



Large auditoriums / hotels



Museums / entertainment



Control / command rooms

Panasonic®

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All information included here is valid as of April 2013.

PT-DZ13KG1 Printed in Japan.

Panasonic

BUSINESS

RZ970 Series

1-Chip DLP™ Projectors

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

Unleash the Power of Your Imagination

SOLID
SHINE
LASER

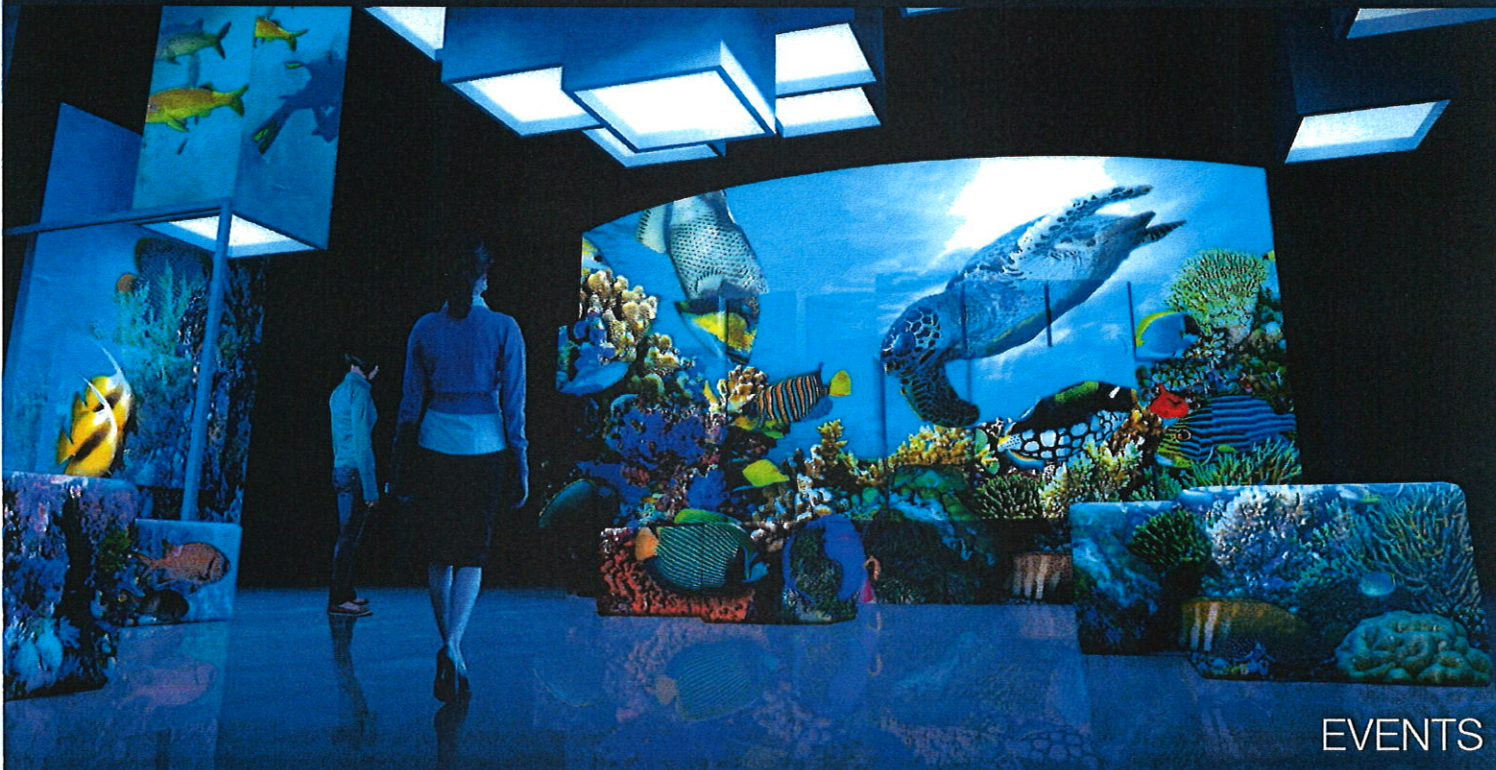
PICTURE BY
DLP™
A TEXAS INSTRUMENTS TECHNOLOGY

Worldwide
Olympic Partner



Worldwide
Paralympic Partner

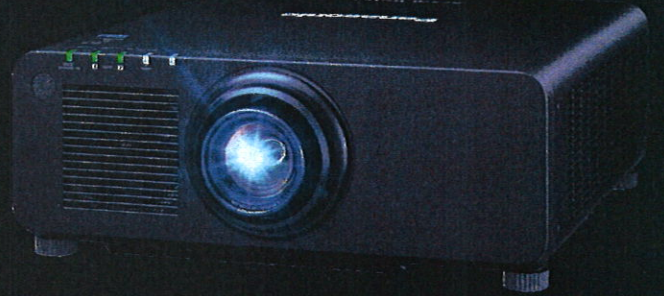




EVENTS

Engineered for Elite Marathon Performance in Permanent or Temporary Installations

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



High Picture Quality



Quick Start and Quick Off



Free 360° Install



Dust-Resistant Optics



Economical



20,000 hours*1
Maintenance free

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

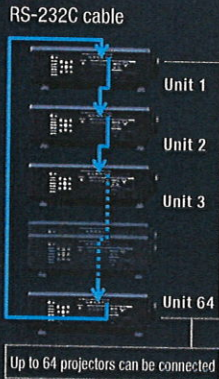
* Measured according to strict international IEC 21115 standards. Note: PT-RZ970L / RZ770L / RW930L / RW730L / RW620L / RX110L do not include a lens.

Versatile Installation Flexibility

Unique Contrast Sync and Shutter Sync Function

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

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



Contrast Sync

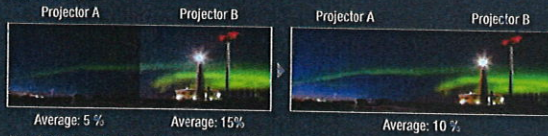


Image luminance of all projectors is averaged for uniform Dynamic Contrast, rather than each unit setting Dynamic Contrast separately. Step noise is eliminated in edge-blended areas.

Shutter Sync



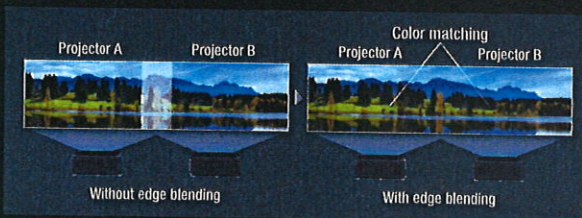
If shutter functions are not linked, shutter ON/OFF timing varies. When shutter functions of slave projectors are linked to a master, shutter ON/OFF timing is uniform.*

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

Multi-Screen Support System Seamlessly Connects Multiple Screens

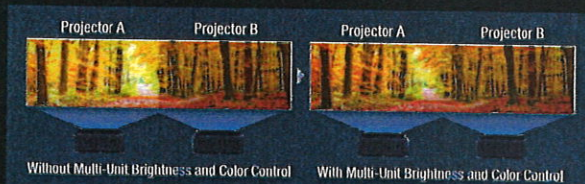
Edge Blending Edges of adjacent screens can be blended and their luminance controlled.

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



Multi-Unit Brightness and Color Control

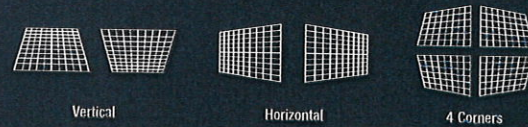
This function automatically corrects brightness and color fluctuations that occur over time in individual projectors in a multi-screen system. Control up to eight projectors connected via hub increasing to a maximum of 2,048 projectors with Multi Monitoring & Control Software.



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.

Vertical, Horizontal, and Corner Keystone Correction



Curved Screen Correction



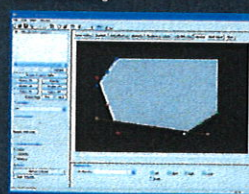
Geometry Manager Pro Software (PT-RZ970/RZ770/RZ660 Only)

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

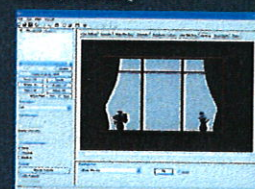
Optional ET-UK20 Upgrade Kit for Geometry Manager Pro (PT-RZ970/RZ770/RZ660 Only)

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

Line Masking



Bitmap Masking



Create masking data



Use to overlap projected image



Image projected only in designated areas

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

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

*6 Available worldwide except the United States. ** Supported cameras: NIKON D5200/D3300/D5500.

Reduce Inventory Costs with Shared Lenses

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

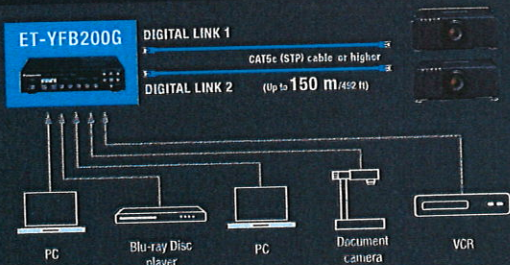
Easy System Flexibility

Single-Cable DIGITAL LINK Control and Video Connection

Upward 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)*3. Add an optional DIGITAL LINK Switcher or Digital Interface Box to further simplify installation in large venues while reducing cost and improving reliability at the same time.



*8 150 m (492 ft) transmission available only in Long Reach Mode with optional ET-YFB200G DIGITAL LINK Switcher for signals up to 1080/60p (dot-clock frequency 149.5 MHz). Transmission distance is up to 100 m (328 ft) in other cases.



Free 360-degree Rotation

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



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

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

Quick Start and Quick Off

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

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

Multi Monitoring & Control Software

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

Backup Input Setting Optimizes Performance

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

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

Conventional System

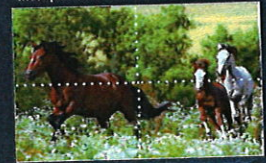
Multiple-unit widescreen projection



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

Backup Input Setting

Multiple-unit widescreen projection



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

Web Browser Control

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

Early Warning Software ET-SWA100 Series (Optional)

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

Other Valuable Features

- DICOM Simulation Mode offers easy-to-view X-ray photo reproduction**11
- Rec. 709 mode for HDTV projection to provide accurate colors
- Wavelength Monitor for simple yet precise calibration
- Lens-centered design and a wide horizontal/vertical lens shift
- Shutter effect with fade in/fade out (configurable in 0.5-second intervals from 0.5 to 4.0 seconds, or to 5-, 7-, or 10-second intervals)
- PJLink™ compatibility
- P-in-P function**12
- Image rotation function
- On-screen menu rotatable in Portrait Mode

- Scheduling function
- 30 m (98 ft) long-range wireless remote control
- Anti-theft features including chain opening and security bar
- Customizable start-up logo
- ID assignment for up to 64 units
- Built-in test pattern
- Selectable 10-language on-screen menu (English, German, French, Spanish, Italian, Portuguese, Russian, Japanese, Chinese, Korean)
- RoHS Directive-compliant

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

Terminals

Terminals for PT-RZ970/RZ770/RZ660 shown.



- | | | |
|--|---|--------------------|
| 1 Remote 1 input/output | 4 SDI input (P1-RZ970/RZ770/RZ660 only) | 7 RGB 2 input |
| 2 Remote 2 input | 5 RGB 1 input | 8 HDMI input |
| 3 Serial/Multi Projector Sync input/output | 6 DVI-D input | 9 LAN/DIGITAL LINK |

Optional Accessories

ET-DLE085
Zoom Lens



ET-DLE350
Zoom Lens



ET-PKD120H
High Ceiling
Mount Bracket



ET-PKD130H
High Ceiling Mount Bracket
with 6-axis Adjustment
Mechanism



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

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

Note: Available worldwide except in the United States.

ET-DLE150
Zoom Lens



ET-DLE450
Zoom Lens



ET-PKD120S
Low Ceiling
Mount Bracket



ET-SWA100 Series
Early Warning Software

Note: Part number suffix may differ depending on the license type.

ET-DLE170*
Zoom Lens
*US/Europe only.
ET-DLE170 is equivalent
of supplied lens.



ET-DLE055
Fixed-Focus
Lens



ET-PKD130B
Bracket
Assembly



ET-YFB200G
DIGITAL LINK Switcher



ET-YFB100G
Digital Interface Box



ET-DLE250
Zoom Lens



ET-DLE030
Fixed-Focus
Lens



NOTE:
Use ET-PKD120H, ET-PKD120S, and ET-PKD130H in combination with
ET-PKD130B. ET-PKD130H is recommended when used with ET-DLE030.

Projection Distances

Unit: meters (feet)

Screen size (diagonal)	Distance to screen (A)														
	Zoom lenses														
	ET-DLE085		ET-DLE150		Supplied lens/ET-DLE170		ET-DLE250		ET-DLE350		ET-DLE450		Fixed-focus lens*1		
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	ET-DLE055
PT-RZ970/ RZ770/ RZ660 (16:10 aspect ratio)	1.27 (50)	0.82 (2.7)	1.04 (3.4)	1.38 (4.5)	2.01 (6.6)	1.82 (6.0)	2.57 (8.4)	2.42 (7.9)	3.87 (12.7)	3.80 (12.5)	5.81 (19.1)	5.66 (18.6)	9.12 (29.9)	0.83 (2.7)	
	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)	2.92 (9.6)	4.65 (15.3)	4.59 (15.1)	7.00 (23.0)	6.85 (22.5)	11.01 (36.1)	1.00 (3.3)	
	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)	
	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)	10.43 (34.2)	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)	13.14 (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)	59.30 (194.6)	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)	22.84 (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/ RW730/ RW620 (16:10 aspect ratio)	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 (13.3)	4.71 (15.6)	4.61 (15.2)	9.59 (31.5)	0.87 (2.9)	
	1.52 (60)	1.05 (3.4)	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)	7.26 (23.8)	11.57 (38.0)	1.06 (3.5)	
	1.78 (70)	1.23 (4.1)	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 (28.2)	8.46 (27.8)	13.55 (44.5)	1.24 (4.1)	
	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)	
	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)	5.18 (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 (20.5)	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)	4.45 (14.6)	6.45 (21.2)	5.89 (19.3)	8.26 (27.1)	7.79 (25.5)	12.35 (40.5)	12.27 (40.2)	18.61 (61.0)	18.47 (60.6)	29.38 (96.4)	2.71 (8.9)	
	5.08 (200)	3.61 (11.9)	4.49 (14.7)	5.95 (19.5)	8.61 (28.3)	7.88 (25.8)	11.03 (36.2)	10.41 (34.2)	16.49 (54.1)	16.40 (53.8)	24.85 (81.5)	24.73 (81.1)	39.28 (128.9)	3.63 (11.9)	
	6.35 (250)	4.53 (14.9)	5.62 (18.4)	7.45 (24.5)	10.78 (35.4)	9.86 (32.4)	13.81 (45.3)	13.03 (42.8)	20.63 (67.7)	20.53 (67.4)	31.10 (102.0)	30.99 (101.7)	49.17 (161.3)		
	7.62 (300)	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)	24.77 (81.3)	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 (51.3)	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 (68.9)	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 (4:3 aspect ratio)	1.27 (50)	0.81 (2.6)	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)	
	1.52 (60)	0.98 (3.2)	1.22 (4.0)	1.62 (5.3)	2.37 (7.8)	2.15 (7.0)	3.03 (9.9)	2.85 (9.3)	4.55 (14.9)	4.48 (14.7)	6.84 (22.5)	6.69 (21.9)	10.75 (35.3)	0.98 (3.2)	
	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)	
	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)	
	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 (14.2)	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 (15.8)	7.63 (25.0)	7.56 (24.8)	11.50 (37.7)	11.35 (37.2)	18.12 (59.5)	1.66 (5.4)	
	3.05 (120)	2.00 (6.5)	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 (45.2)	13.68 (44.9)	21.81 (71.5)	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 (95.0)	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 (75.6)	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 (27.5)	11.13 (36.5)	16.08 (52.8)	14.73 (48.3)	20.60 (67.6)	19.45 (63.8)	30.77 (100.9)	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)	58.02 (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)			

Screen size (diagonal)	ET-DLE030 Ultra-Short-Throw Lens*2					
	Projection distance			Close-up system dimensions		
	(A)	(B)	(C)	(D)	(E)	(F)
PT-RZ970/ RZ770/ RZ660 (16:10 aspect ratio)	2.54 (100)	0.82 (2.7)	0.65 (2.1)	0.11 (0.4)	0.43 (1.4)	0.63 (2.1)
	3.05 (120)	0.98 (3.2)	0.81 (2.7)	0.28 (0.9)	0.53 (1.7)	0.73 (2.4)
	3.81 (150)	1.23 (4.0)	1.06 (3.5)	0.52 (1.7)	0.68 (2.2)	0.88 (2.9)
	5.08 (200)	1.63 (5.3)	1.46 (4.8)	0.93 (3.1)	0.93 (3.1)	1.13 (3.7)
	6.35 (250)	2.04 (6.7)	1.87 (6.1)	1.34 (4.4)	1.1	





Specifications

Model	PT-RZ970/RZ770/RZ660	PT-RW930/RW730/RW620	PT-RX110
Power supply	AC 100-240 V, 50/60 Hz		
Power consumption	[PT-RZ970/RW930/RX110] 1,050 W, Normal*; 742 W, Eco*; 617 W, Long Life 1*; 410-588 W, Long Life 2*; 375-588 W, Long Life 3*; 349-588 W, Shutter*; 82 W; [PT-RZ770/RW730] 825 W, Normal*; 593 W, Eco*; 508 W, Long Life 1*; 333-477 W, Long Life 2*; 310-477 W, Long Life 3*; 286-477 W, Shutter*; 72 W; [PT-RZ660/RW620] 700 W, Normal*; 499 W, Eco*; 428 W, Long Life 1*; 287-402 W, Long Life 2*; 262-402 W, Long Life 3*; 238-402 W, Shutter*; 69 W; [Common] Standby; 85 W with Quick Startup Mode set to ON, 0.2 W with Standby Mode set to Eco, 3 W with Standby Mode set to Normal *In conditions with an operating temperature of 25 °C (77 °F), altitude 700 m (2,297 ft), IEC62087: 2008 Broadcast Content, Picture Mode: Standard, Dynamic Contrast: 2.		
DLP™ chip	Panel size 17.0 mm (0.67 in) diagonal (16:10 aspect ratio)	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	1,024,000 (1280 × 800) pixels	786,432 (1024 × 768) pixels
	Pixels 2,304,000 (1920 × 1200) pixels	Powered zoom (throw ratio 1.7-2.4:1), powered focus F 1.7-1.9, f 25.6-35.7 mm	
Lens	Laser diodes laser Class 1 (Class 3R for US models), light source life*: 20,000 hours (Normal Mode) / 24,000 hours (Eco Mode). At this time the brightness will have decreased to approximately half of its original level.		
Light source	Laser diodes laser Class 1 (Class 3R for US models), light source life*: 20,000 hours (Normal Mode) / 24,000 hours (Eco Mode). At this time the brightness will have decreased to approximately half of its original level.		
Screen size (diagonal)	1.27-15.24 m (50-600 in), 1.27-5.08 m (50-200 in) with ET-DLE055, 2.54-8.89 m (100-350 in) with ET-DLE030, 16:10 aspect ratio (except PT-RX110), 4:3 aspect ratio (PT-RX110)		
Brightness	PT-RZ970: 10,000 lm (Center)* ² / 9,400 lm* ¹ PT-RZ770: 7,200 lm (Center)* ² / 7,000 lm* ¹ PT-RZ660: 6,200 lm (Center)* ² / 6,000 lm* ¹	PT-RW930: 10,000 lm (Center)* ² / 9,400 lm* ¹ PT-RW730: 7,200 lm (Center)* ² / 7,000 lm* ¹ PT-RW620: 6,200 lm (Center)* ² / 6,000 lm* ¹	10,400 lm (Center)* ² / 10,000 lm* ¹
Center-to-corner uniformity* ¹	90%		
Contrast* ¹	10,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)		
Resolution	1920 × 1200 pixels	1280 × 800 pixels	1024 × 768 pixels
Scanning frequency	SD-SDI SMPTE ST 259 compliant, [YCbCr 4:2:2 10-bit] 480i (525i), 625i (576i)	—	
	HD-SDI SMPTE ST 292 compliant, [YCbCr 4:2:2 10-bit] 750 (720i)/60p, 750 (720i)/50p, 1125 (1080i)/60i, 1125 (1080i)/50i, 1125 (1080i)/25p, 1125 (1080i)/24p, 1125 (1080i)/24sF, 1125 (1080i)/30p	—	
	3G-SDI SMPTE ST 424 compliant, [RGB 4:4:4 12-bit/10-bit] 1125 (1080i)/60i, 1125 (1080i)/50i, 1125 (1080i)/25p, 1125 (1080i)/24p, 1125 (1080i)/24sF, 1125 (1080i)/30p, 2K/24p, 2K/25p, 2K/30p, [YCbCr 4:2:2 10-bit] 1125 (1080i)/60p, 1125 (1080i)/50p, 2K/48p, 2K/50p, 2K/60p	—	
HDMI/DVI-D/DIGITAL LINK	625i (480p)*, 625i (576i)*, 625p (480p), 625p (576p), 750 (720i)/60p, 750 (720i)/50p, 1125 (1080i)/60i, 1125 (1080i)/50i, 1125 (1080i)/25p, 1125 (1080i)/24p, 1125 (1080i)/24sF, 1125 (1080i)/30p, 1125 (1080i)/60p, 1125 (1080i)/50p, 640 × 400-WUXGA* ⁴ (1920 × 1200) (compatible with non-interlaced signals only), dot clock: 25-162 MHz		
RGB	IH: 15-100 kHz, IV: 24-120 Hz, dot clock: 20-162 MHz		
YPbPr (Y/Cb/Cr)	IH: 15.73 kHz, IV: 59.9 Hz [525i (480i)], IH: 15.63 kHz, IV: 50 Hz [625i (576i)], IH: 45.00 kHz, IV: 60 Hz [750 (720i)/60p], IH: 33.75 kHz, IV: 60 Hz [1125 (1080i)/60i], IH: 28.13 kHz, IV: 50 Hz [1125 (1080i)/50i], IH: 27.00 kHz, IV: 24 Hz [1125 (1080i)/24p], IH: 33.75 kHz, IV: 30 Hz [1125 (1080i)/30p], IH: 56.25 kHz, IV: 50 Hz [1125 (1080i)/50p], IH: 31.50 kHz, IV: 59.9 Hz [525p (480p)], IH: 31.25 kHz, IV: 50 Hz [625p (576p)], IH: 37.50 kHz, IV: 50 Hz [750 (720i)/50p], IH: 33.75 kHz, IV: 60 Hz [1125 (1080i)/60i], IH: 28.13 kHz, IV: 25 Hz [1125 (1080i)/25p], IH: 27.00 kHz, IV: 48 Hz [1125 (1080i)/24sF], IH: 67.50 kHz, IV: 60 Hz [1125 (1080i)/60p]		
Video/YC	IH: 15.73 kHz, IV: 59.9 Hz (NTSC/NTSCA.43/PAL-M/PAL.60), IH: 15.63 kHz, IV: 50 Hz (PAL/PAL-N/SECAM)		
Optical axis shift* ⁵	Vertical (from center of screen) +50%, -16% (powered)	+60%, -16% (powered)	+50%, -13% (+45%, -13% with ET-DLE085) (powered)
	Horizontal (from center of screen) +30%, -10% (+28%, -10% with ET-DLE085) (powered)	—	
Keystone correction range	Vertical: ±40° (±22° with ET-DLE085/DLE055, +5° with ET-DLE085/DLE055/DLE030), horizontal: ±15° (Cannot be operated with ET-DLE085/DLE055/DLE030)	Vertical: ±40° (±22° with ET-DLE085/DLE055, +5° with ET-DLE030), Horizontal: ±15° (Cannot be operated with ET-DLE085/DLE055/DLE030)	
Keystone correction range with optional Upgrade Kit ET-UK20	Vertical: ±45° (±40° with ET-DLE150/DLE250/supplied lens, ±22° with ET-DLE085/DLE055), horizontal: ±40° (±15° with ET-DLE085/DLE055), Up to a total of ±55° during simultaneous horizontal and vertical correction.	—	
Installation	Ceiling/floor, front/rear, free 360-degree installation		
Terminals	SDI IN BNC × 1: 3G/HD/SD-SDI input	—	
	HDMI IN HDMI 19-pin × 1 (Deep Color, compatible with HDCP)	—	
	DVI-D IN DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)	—	
	RGB 1 IN RGB × 1 (BNC × 5): RGB/YPbPr/YCbCr/YC/VIDEO	—	
	RGB 2 IN D-sub HD 15-pin (female) × 1: RGB/YPbPr/YCbCr	—	
	SERIAL/MULTI PROJECTOR SYNC IN D-sub 9-pin (female) × 1 for contrast sync/shutter sync/external control (RS-232C compliant)	—	
	SERIAL/MULTI PROJECTOR SYNC OUT D-sub 9-pin (male) × 1 for contrast sync/shutter sync/RS-232C link control	—	
	REMOTE 1 IN M3 × 1 for wired remote control	—	
	REMOTE 1 OUT M3 × 1 for link control (for wired remote control)	—	
	REMOTE 2 IN D-sub 9-pin (female) × 1 for external control (parallel)	—	
	LAN/DIGITAL LINK RJ-45 × 1 for network, DIGITAL LINK connection, 100Base-TX, compatible with Art-Net, PLink™, Deep Color, HDCP	—	
Cabinet materials	Molded plastic		
Dimensions (W × H × D)	498 × 200*6 × 581 mm (19 1/32" × 7 7/8" × 22 7/8") (with supplied lens) 498 × 200*6 × 538 mm (19 1/32" × 7 7/8" × 21 3/8") (without lens)		
Weight* ⁷	PT-RZ970/RW930/RX110/RZ770/RW730: Approx. 23.2 kg (51.1 lbs.) (with supplied lens), Approx. 22.4 kg (49.4 lbs.) (without lens) PT-RZ660/RW620: Approx. 23.1 kg (50.9 lbs.) (with supplied lens), Approx. 22.3 kg (49.2 lbs.) (without lens)		
Operation noise* ¹	PT-RZ970/RW930/RX110: 41 dB, PT-RZ770/RW730: 37 dB, PT-RZ660/RW620: 35 dB		
Operating environment	Operating temperature: 0-45 °C (32-113 °F)* ⁸ , operating humidity: 10-80% (no condensation)		
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro* ⁹ (ET-UK20* ⁹ Upgrade Kit and ET-CUK* ¹⁰ Auto Screen Adjustment Kit)		
Supplied accessories	Power cord, wireless/wired remote control unit, batteries (R03/AAA type x 2), software CD-ROM (Logo Transfer Software, Multi Monitoring & Control Software), projection lens cover, lens cover (models with lens only)		

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

*1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. *2 Measured at center area of projector screen. Measurement method is in compliance with ISO/IEC 21118: 2012. Value is average of all products when shipped. May differ depending on actual unit. *3 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal). *4 WUXGA resolution is supported with CVT-RB signals (WUXGA60RB) and CVT signals (WUXGA60). *5 Optical axis shift is not supported on the ET-DLE055, and the optical axis is fixed with the ET-DLE030. *6 With legs at shortest position. *7 Average value. May differ depending on the actual unit. *8 When used in locations from 0 m to 4,200 m (0 ft to 13,780 ft) above sea level in Normal Mode, and from 0 m to 2,700 m (0 ft to 8,858 ft) above sea level in other modes. If the ambient temperature exceeds 35 °C (95 °F) [30 °C (86 °F) for PT-RZ970/RW930/RX110] when used in locations from 0 m to 2,700 m (0 ft to 8,858 ft) above sea level, or if it exceeds 25 °C (77 °F) when used in locations from 2,700 m to 4,200 m (8,858 ft to 13,780 ft) above sea level, the light output may be reduced to protect the projector. *9 Available only with PT-RZ970/RZ770/RZ660. *10 Available only with PT-RZ970/RZ770/RZ660. Available worldwide except the United States.

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

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

Panasonic



For more information about Panasonic projectors, please visit:
 Projector Global Website – panasonic.net/avc/projector
 Facebook – www.facebook.com/panasonicprojector
 YouTube – www.youtube.com/user/PanasonicProjector

All information included here is valid as of September 2016.

PT-RZ970series_G1 Printed in Japan.

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OS	Windows 10
Manufacturer Part #	GL62NE1050i5
Color	Black
CPU	Intel® Core™ Core i5-7300HQ
CPU Speed	2.5 - 3.1 Ghz w/ Turbo Boost
GPU	NVIDIA GeForce® GTX1050
Chipset	Intel® HM175
Screen Size	15.6" Full HD eDP Vivid Color 94% NTSC
Resolution	1920x1080 (16:9)
Video Memory	2G GDDR5
LAN	AR8171
WLAN	Intel 3168 Sandy Peak 1 (1x1 802.11 ac)
Memory	8GB DDR4 2400MHz
HDD Capacity	1TB (7200RPM)
Audio	Nahimic Sound
HDD Interface	SATA
Optical Drive Type	—
Card Reader	SD (XC/HC)
Video Port	HDMI (supports 4K@30hz), mDP 1.2 x1
USB	USB 3.0 x 2, USB 2.0 x 1, USB 3.0 Type C*1
Keyboard	Steel Series Single backlight with Anti-Ghost key+ silver lining
Bluetooth	BT 4.2
Speaker	Speakers x 4 (2W)
Webcam	720p HD Webcam
Audio Port	Headset AMP + Gold Flash jacks
AC Power Adaptor	135W
Battery Pack	6 cell
Dimension	15.07"x10.23"x1.06"
Weight	5.29 lbs
Manufacturer Warranty	1 year Limited warranty (Include 1 Year Global)



OS	Windows 10 Home
Color	Aluminum Black
CPU	Intel® Core™ i7-7700HQ
CPU Speed	2.8 - 3.8GHz w/ Turbo Boost
LCD Size	17.3" FHD, Anti-Glare Wide View Angle 120Hz 5ms 94%NTSC
Chipset	Intel® CM238
Graphics	GeForce® GTX1070
HDD (GB)	256GB NVMe SSD +1TB (SATA) 7200rpm
Resolution	1920x1080 (16:9)
Graphics VRAM	8G GDDR5
LAN	Killer™ E2500 Game Networking
Memory	16GB DDR IV (8GB*2) 2400MHz 4 Sockets Max Memory 64GB
Wireless LAN	Killer™ N1535 Combo (2*2 ac)
Audio	Nahimic Sound
Card Reader	SD (XC/HC)
HDMI	1x (4K @ 60Hz) HDMI
Mini-DisplayPort	mDP v1.2
Keyboard	Steel Series Full-color backlight with Anti-Ghost key+ silver lining
Bluetooth	BT 4.1
Speaker	Dynaudio Tech Speakers 3W *2 + woofer 5W *1
Mic-in/Headphone-out	1/1 (ESS Sabre HiFi)
Webcam	FHD type (30fps@1080p)
USB 3.0 port	5
Type-C Port	Thunderbolt 3
AC Adapter	230W
Battery	8 cell 5225mAH (75Whr)
Weight (LB)	8.59 lbs
UPC	0824142140697
Dimension	16.85" x 12.36"x 1.76"
UCC-14	10824142140694
Manufacturer Warranty	2 year Limited warranty (Include 1 Year Global)

40UF6710

Add to Compare

Share 

Features

Tech Specs

Support





4K Resolution



4K Upscaler



ULTRA Slim



Dual Metal

4K Resolution

4K ULTRA HD offers you a superb image quality that surpasses the brilliance of other display technologies. With four times the resolution of Full HD, you will see the finest details portrayed with the utmost clarity even when standing up close to the screen. 4K resolution takes your TV experience to a whole new level with its superior image accuracy and precision.



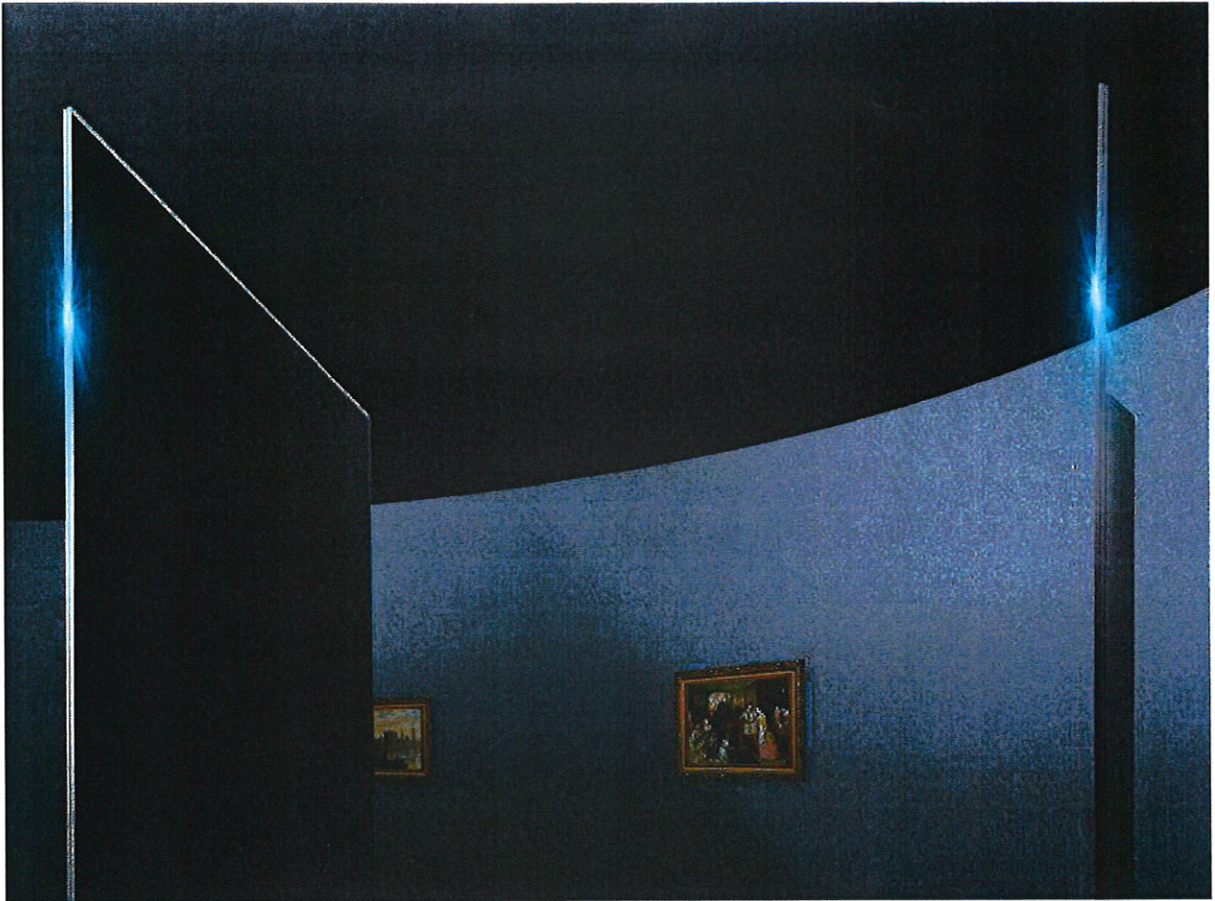
4K Upscaler

Enhance any of your viewing content with all the benefits of the 4K ULTRA HD TV's richer quality. The 4K Upscaler renders ordinary broadcasts, movies and sporting events into a dynamic and lifelike display. You can even capture the most intricate details of nature as if you were virtually experiencing the outdoors.



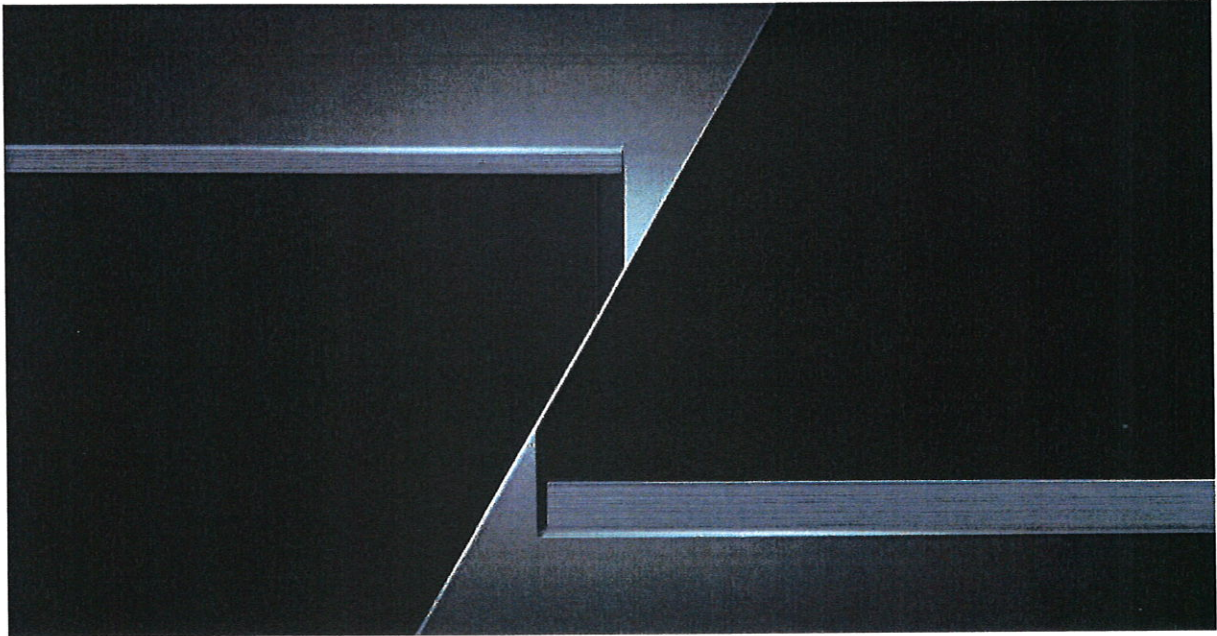
ULTRA Slim

The ULTRA Slim 4K screen maximizes picture quality while minimizing screen thickness. The more compact and slimmer design spares neither quality nor comfort and you can seamlessly blend your TV in your home without any risk of clashing or need to rearrange your entire décor. Enhance your life with greater illumination in a more compact technology.



Dual Metal

Dual Metal is designed to give a modern look to your interior with metallic frame on the top and bottom of the TV.



Virtual Surround

Put yourself in the middle of the action with Virtual Surround that delivers an extended sound field.



Close

Display Module

Display Type	Screen Size (Inch)
LED	40
Resolution	BLU Type (Backlight)
3840x2160	Edge
Micro Pixel Control	
Yes	

Broadcasting System

Analog	Digital TV Reception - Terrestrial
PAL-DK/I, NTSC-M	DTMB
Data Broadcasting - MHEG	
Yes	

Video

Tru ULTRA HD Engine	Triple XD Engine
Yes	Yes
Tru Black Control	4K Upscaler
Yes	Yes
Contents Optimizer	Dynamic Scanning
Yes	Yes
Active Noise Reduction	Natural Color
Yes	Yes
Dynamic Color Enhancer	Dynamic Clear White
Yes	Yes
Picture Mode	Aspect Ratio
8 modes (Vivid,Standard,Eco, Cinema,Game,Sport, isf Expert1, isf Expect2)	8 modes (16:9, Just scan, Original, Full Wide, 4:3, 14:9, Zoom, Cinema Zoom 1)
Real Cinema 24p	
Yes	

Audio

Mono/Stereo/Dual (MTS/SAP)

Yes

Dolby Digital Decoder

Yes

DTS Decoder

Yes

Speaker System

2.0 Ch Speaker system (1way 2speakers)

Audio Output

20W

Surround System

Virtual Surround

Clear Voice II

Yes

Sound Mode

6 modes (Standard, News, Music, Cinema, Sport, Game)

Sound Optimizer

3 modes (Off, Stand Type, Wall-mounted Type)

Optical Sound Sync

Yes

Smart Share

----- Media Share -----

- Divx Codec

Yes

----- Others -----

- Simplink (HDMI CEC)

Yes

DVR (Digital)

Recording

External Hard Drive

Time Shift (live playback)

External Hard Drive

Watch & Record

External Input watch & record

Schedule Recording

Manual / TV Guide

USB

Divx (SD/HD/Plus HD)

DivX HD, RMVB

Picture

JPEG

Audio Codec

AC3(Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM, DTS, RA, WMA

Subtitle for DivX

Yes (Chinese / English)

Special

Motion eye care

Yes

EPG (SI - 8 days)

Yes

Smart Energy Saving

Yes

Input Labeling

Yes

Jack Packs (Input & Output)