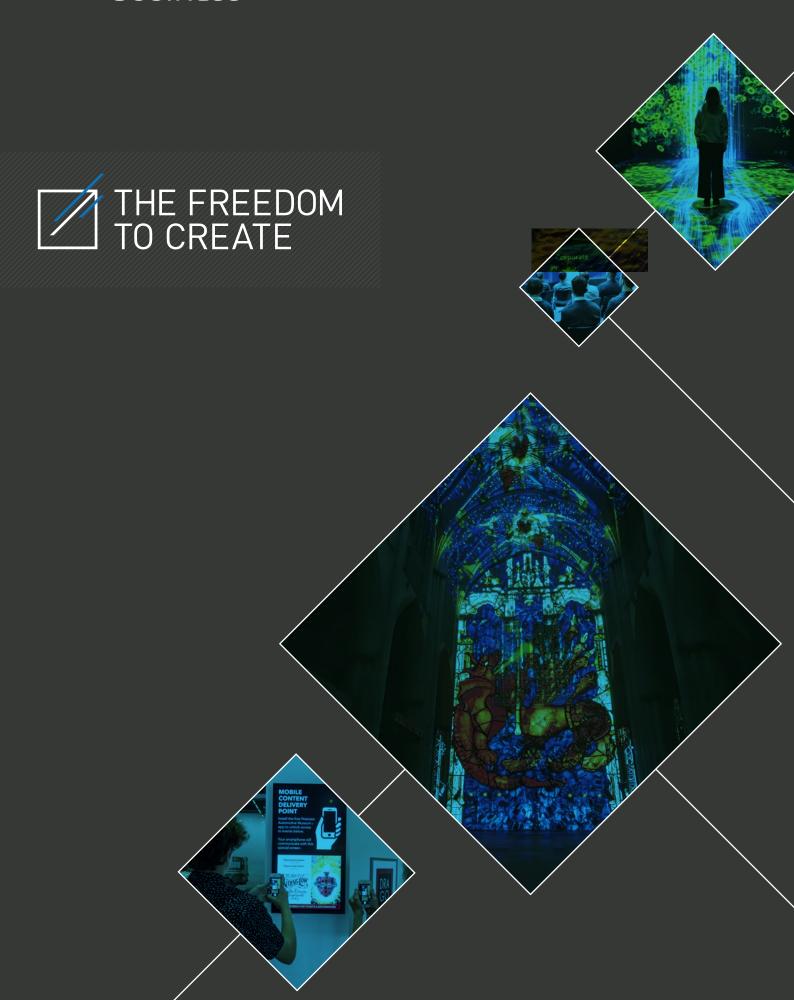
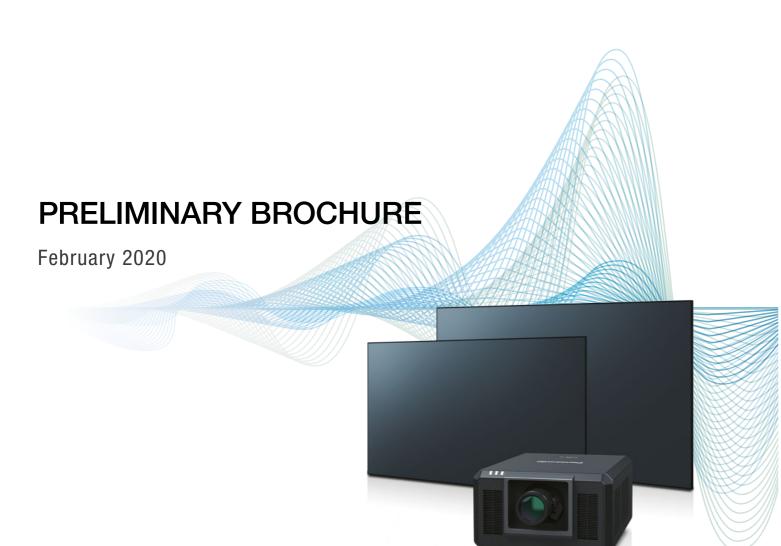
# Panasonic BUSINESS

2020 Visual Solutions Preliminary Brochure





**Projectors** 

PT-RQ35K Series

3-Chip DLP<sup>™</sup> Projectors

PT-LB426 Series

Portable LCD Projectors

PT-TW381R Series

PT-RZ790 Series

1-Chip DLP<sup>™</sup> Projectors

Short-Throw LCD Projectors

**Flat-Panel Displays** 

**SQ1H Series** 

4K UHD Displays

**SQE1 Series** 

4K UHD Displays

**CQE1 Series** 

PT-FRZ60 Series

1-Chip DLP™ Projectors

4K UHD Displays

**Wireless Presentation System** 

**Wireless Presentation System** 

# **Panasonic BUSINESS**

PT-RQ35K Series

3-Chip DLP™ Projectors

AVAILABLE FROM NOVEMBER 2020

PRELIMINARY

AS OF FEBRUARY 2020

# World's Smallest and Lightest\*1 30,000 Im<sup>\*2</sup> 3-Chip DLP<sup>™</sup> Laser Projectors **Streamline Workflow Management**





















PT-RQ35K Series				
	PT-RQ35K	PT-RZ34K		
Light Output	30,000 lm*2/31,000 lm (Center)*3			
Resolution	4K (3840 x 2400 pixels*)	WUXGA (1920 x 1200 pixels)		

## • Revolutionizing Event Operation with Simplified Workflow

Bringing massive brightness to tight installation spaces, the PT-RQ35K Series outputs 30,000 lm<sup>2</sup> from a body 60 % the size of our 26,000 lm<sup>2</sup> PT-RQ32K. Streamlining features include Smart Projector Control with NFC\*4 for mobile access to network configuration such as IP address setup.

## Spellbinding Pictures at up to 4K with Expanded Color Gamut

Red and blue lasers emitting at optimal wavelengths expand color-space by 114 %\*5 over the PT-RQ32K. Vivid reds and truer blues heighten realism for ultra-detailed 4K or WUXGA image reproduction. High brightness, vibrant color, and immersive contrast carry content to a new level.

## Stable Operation with Newly Refined Cooling System

New filterless cooling system combines a finless radiator and hermetically sealed DMDs to reinforce reliability. Separate cooling for the sensitive red laser is managed by Dynamic Digital Control to assure stability as temperature fluctuates. Failover Circuitry and Backup Input<sup>6</sup> add insurance to a 20,000-hour<sup>\*7</sup> maintenance-free design.

ent, measuring conditions, and method of notation all comply with ISO/EC 21118: 2012 international standards. Value is average of all products when shipped. "3 Average light-output value of all shipped products measured at center of screen in NORMAL Mode. "4 NFC (Near Field only function availability may vary by country or region. "5 Panasonic research." 6 Combination of primary/backup input terminals is fixed. Backup input Function enabled when input signal to primary/backup terminals is the same. "7 Around this time, light output will have decreased telepis 5 %. EC62087: 2008 Broadcast Contents, NORMAL Mode, Dynamic Contrast (ON), temperature 35 °C (95 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of airborne particulate matter. Estimated time until brightness decreases to 50 % will vary depending on environment inditions. Parts other than the light source may require replacement before 20,000 hours, and checkup is recommended around this time.

### Specifications (Tentative)

Model		PT-RQ35K	PT-RZ34K				
Projector type		3-Chip DLP™ projector					
DLP™ chip	Panel size	24.4 mm (0.96 in) diagonal (16:10 aspect ratio)					
·	Display method	DLP™ chip x 3, DLP™ projection system					
	Number of pixels	2,304,000 (1920 x 1200 pixels) x 3					
Light source	, , , , , , , , , , , , , , , , , , ,	Laser diodes (Blue LD, Red LD)					
Light output		30,000 Im*/31,000 Im (Center)*2					
Time until light outp	out declines to 50 %*3	20,000 hours (NORMAL)					
Resolution		4K (3840 x 2400 pixels) (Quad Pixel Drive: ON)	WUXGA (1920 x 1200 pixels)				
Contrast ratio*1		20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)					
Screen size [diagona	al]	1.78-25.4 m (70-1,000 in), 1.78-15.24 m (70-600 in) with ET-D75LE8/ET-D	3LET80, 3.05–15.24 m (120–600 in) with ET-D75LE95				
Center-to-corner zo	·	90 %					
Lens		Optional (no lens included with this model)					
Lens shift*4	Vertical	±55 % (+78 %, +68 % with ET-D75LE95, ±48 % with ET-D3LEW200, ±44 %	with ET-D75LE6/ET-D3LEW60) (powered)				
(From the origin point of the lens mounter)	Horizontal	±20 % (±15 % with ET-D75LE6/ET-D3LEW60/ET-D3LEW200, ±12 % with ET					
Keystone correction range		Vertical: ±45 ° (± 40 ° with ET-D75LE10/ET-D3LEW10/ET-D3LEW20, ±28 ° with ET-D75LE6/ET-D3LEW60, ±22 ° with ET-D75LE50/ET-D3LEW50, ±15 ° with ET-D3LEW200, ±8 ° with ET-D3LEU100, +5 ° with ET-D3LEW50, ±15 ° with ET-D3LEW200, 0 ° with ET-D3LEW50/ET-D3LEW50/ET-D3LEW60, ±5 ° with ET-D3LEU100/ET-D3LEW200, 0 ° with ET-D75LE95) When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °.					
Installation		Ceiling/floor, front/rear, free 360-degree installation					
Terminals	SDIIN	_	BNC x 1: 3G/HD-SDI input				
	HDMI® IN	HDMI x 1 (Deep Color, compatible with HDCP 2.2, 4K/60p signal input*s)					
	DVI-D IN	_	DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP) (Single-link only)				
	MULTI PROJECTOR SYNC IN	BNC x 1					
	MULTI PROJECTOR SYNC OUT	BNC x 1					
	MULTI PROJECTOR SYNC IN/ 3D SYNC IN/OUT	-	BNC x 1				
	MULTI PROJECTOR SYNC OUT/ 3D SYNC 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 (RS-232C compliant)					
	REMOTE 1 IN	M3 stereo mini-jack x 1 for wired remote control					
	REMOTE 1 OUT	M3 stereo mini-jack x 1 for link control					
	REMOTE 2 IN	D-sub 9-pin (female) x 1 for external control (parallel)					
	DIGITAL LINK	RJ-45 x 1 for network and DIGITAL LINK connection (HDBaseT™ compliant), 10	OBase-TX, compatible with Art-Net, PJLink™ (Class 2), Deep Color, HDCP 2.2, 4K/60p signal input*5				
	LAN	RJ-45 x 1 for network connection, PJLink™ (Class 2) compatible, 10Base-T/10	DBase-TX, Art-Net compatible				
	USB	USB connector (Type A) x 1 for optional Wireless Module (AJ-WM50 Series)/US	B Memory Stick				
	DC OUT	USB Type A x 2 (for power supply, DC 5 V total of 2 A)					
	Expansion slot	SLOT 1/SLOT 2 (total two terminals, vacant) for interface boards, SLOT NX con	patible SLOT (one terminal, vacant) for interface boards, SLOT NX compatible				
Power supply		AC 200 V-240 V (Light output will decrease to approximately one third when us	ing the projector with AC 100 V to AC 120 V)				
Power consumption	1	TBD					
Cabinet materials		Molded plastic					
Operation noise*1		TBD					
Dimensions (W x H x	x D)	$600 \times 360 \times 800 \text{ mm}$ (23 $^{5}$ /8" x 14 $^{3}$ /16" x 31 $^{1}$ /2") or less, not including protruction	ing parts*6				
Weight*7		70 kg (154 lbs) or less*8					
Operating environm	ent	Operating temperature: 0-45 °C (32-113 °F), operating humidity: TBD					
Applicable software	)	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning So	ftware, Smart Projector Control for iOS/Android™				

### Optional Accessories

### ET-D3LEF70

Note: Equipped with Auto Lens Identification Function

• Fixed-Focus Lens

ET-D75LE95 (0.364:1) / ET-D3LEU100\* (0.370:1) / FT-D3I FW50\* (0.694:1) / FT-D75I F50 (0.694:1)

### • Zoom Lens

FT-D3I FW200\* (0.645-0.850:1) / FT-D3I FW60\* (0.924-1.10:1) / ET-D75LE6 (0.924–1.10:1) / ET-D3LEW10\* (1.26–1.72:1) / FT-D75| F10 (1.30-1.67:1) / FT-D3| FS20\* (1.67-2.41:1) / ET-D75LE20 (1.67-2.41:1) / ET-D3LET30\* (2.40-4.66:1) / FT-D75LF30 (2.40-4.66·1) / FT-D3LFT40\* (4.61-7.41·1) ET-D75LE40 (4.62–7.38:1) / ET-D3LET80\* (7.34–13.8:1) / FT-D75LF8 (7.34-13.8:1)

ET-D75MKS10

Note: Calibration is required each time the lens is mounted. Wireless Module

AJ-WM50 Series

Note: Product availability may vary by country or region.

 DIGITAL LINK Switcher ET-YFB200G

Digital Interface Box

Note: ET-YFB200G is not compatible with 4K signals.

Note: ET-YFB100G is not compatible with 4K signals.

ET-SWA100 Series
Note: Part number suffix may differ depending on the license type. \* Multi Monitoring & Control Software Ver. 2.0 or later is required. Please download from the following website: www.panasonic.net/cns/projector/download/application

• NFC Upgrade Kit

Note: Product availability may vary by country or region.

ET-MDNDP10

Interface Board for 12G-SDI Input (Input x 2, Input/Output x 2) ET-MDN12G10 Interface Board for 12G-SDI Optical (Input x 1, Input/Output x 1) ET-MDNFB10 Interface Board for HDMI® (HDCP 2.2) Input (Input x 2) ET-MDNHM10 Interface Board for DVI Input (Input x 2) ET-MDNDV10 Interface Board for DisplayPort® (Input x 2)

# **Panasonic BUSINESS**

PRELIMINARY AS OF FEBRUARY 2020

PT-RZ790 Series 1-Chip DLP™ Projectors

AVAILABLE FROM SEPTEMBER 2020

# Compact 1-Chip DLP<sup>™</sup> Laser Projectors Bring High Brightness and Simple Flexibility to Exhibition Spaces

















PT-RZ790 Series						
	PT-RZ790 PT-RZ790L PT-RZ690 PT-RZ6					
Light Output	7,000 lm*1/7,2	00 lm (Center)*2	6,000 lm*1/6,2	00 lm (Center)*2		
Resolution		WUXGA				
Lens	Lens supplied	Without lens	Lens supplied	Without lens		

## • Bright, Color-Rich Images in Any Environment

The PT-RZ790 Series delivers the brightness, resolution, and color that designers need to enhance exhibits with bright, bold, and vivid pictures. SOLID SHINE Laser and Quartet Color Harmonizer enhance color-depth and white-balance accuracy for arrestingly realistic pictures even in well-lit spaces.

## Light, Quiet, Compact Projectors are Easy to Install

Projectors support our 1-Chip DLP<sup>™</sup> lenses and 4K signal input<sup>\*3</sup> via HDMI<sup>®</sup> and DIGITAL LINK, adapting to your space with 23.2 kg<sup>-4</sup> body and 36 dB operation in Normal Mode. Smart Projector Control app enhances efficiency with On/Off function, lens adjustment, touchscreen OSD navigation, and projection auto-focusing using your smartphone camera\*5.

## Proven SOLID SHINE Laser Reliability

Hermetically sealed DMD block, shielded laser drive, and new filterless cooling system eliminate the hassle of maintenance for 20,000 hours\*6 of continuous projection, while brightness ramp and color uniformity remain linear. For extra insurance, Backup Input<sup>7</sup> switches to a failback if primary video is interrupted.

<sup>\*1</sup> Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. \*2 Average light-output value of all shipped products measured at center of screen in NORMAL Mode. \*3 4K signals are weesdelmen, insecting containings and mentals of inclusions at compty with resolute 2 miles about the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DGITAL LINK/HDM\* 4 Including standard lens: 5 Projector auto-focus may not be supported to some one mobile devices: 5 Around this time, light output will have decreased by approximate 55 %. IECO2087: 2008 Broadcast Contents, NORMAL Mode, Dynamic Contrast (ON), temperature 55 °C (55 °F), elevation 700 m (2,297 ft) with 0.15 mg/m\* of airborne particulate matter. Estimated time until brightness decreases to 50 % will vary depending on environment and usage conditions. Parts other than the light source may require replacement before 20,000 brous, and checkup terminals is the sam

### Specifications (Tentative)

Model	With supplied lens	PT-RZ790	PT-RZ690			
	Without lens	PT-RZ790L	PT-RZ690L			
Projector type		1-Chip DLP™ projector				
DLP™ chip	Panel size	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)				
	Display method	DLP™ chip x 1, DLP™ projection system				
	Number of pixels	2,304,000 (1920 x 1200 pixels)				
Light source	•	Laser diodes				
Light output		7,000 lm*1/7,200 lm (Center)*2	6,000 lm*1/6,200 lm (Center)*2			
· ·	t output declines to 50 %*3	20,000 hours (NORMAL)/24,000 hours (ECO)				
Resolution		1920 x 1200 pixels				
Contrast ratio*	1	10,000:1 (Full On/Full Off, Dynamic Contrast Mode: ON)				
Screen size [di	agonall	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	0 in) with ET-DLE035, 2.54-10.16 m (100-400 in) with ET-DLE020, 16:10 aspect ratio			
Center-to-corn		90 %				
Lens		PT-RZ790: Powered zoom (throw ratio 1.71–2.41:1), powered focus F 1.7–1.9, f 25.6–35.7 mm PT-RZ790L: Optional powered zoom/focus lenses	PT-RZ690: Powered zoom (throw ratio 1.71–2.41:1), powered focus F 1.7–1.9, f 25.6–35.7 n PT-RZ690L: Optional powered zoom/focus lenses			
Lens shift*4	Vertical	+50 %, -16 % (+40 %, -16 % with ET-DLE660) (powered)				
From the origin po of the lens mounte		+30 %, -10 % (+10 %, -20 % with ET-DLE020, +19 %, -10 % with ET-DLE060, +28 %, -10 % w	vith FT-DI F105/FT-DI F085) (powered)			
Keystone corre	,	Vertical: ±40 ° (±5 ° with ET-DLE060), ±16 ° with ET-DLE060, ±22 ° with ET-DLE105/ET-DLE0 Horizontal: ±15 ° (±10 ° with ET-DLE060) (cannot be operated with ET-DLE035/ET-DLE025)	7.9			
Keystone corre with optional E	ection range T-UK20 Upgrade Kit	Vertical: ±45 ° (±16 ° with ET-DLE060, ±40 ° with ET-DLE150/ET-DLE250/ET-DLE170, ±22 ° Horizontal: ±40 ° (±10 ° with ET-DLE060, ±15 ° with ET-DLE105/ET-DLE085/ET-DLE055) When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction	<i>"</i>			
Installation		Ceiling/floor, front/rear, free 360-degree installation				
Terminals	SDIIN	BNC x 1: 3G/HD/SD-SDI input				
	HDMI® IN	HDMI 19-pin x 1 (Compatible with HDCP 2.2, Deep Color, 4K signal input*s)				
	DVI-D IN	DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)				
	RGB 1 IN	RGB x 1 (BNC x 5): RGB/YPBPR/YCBCR/YC/VIDEO				
	RGB 2 IN	D-sub HD 15-pin (female) x 1: RGB/YPBPR/YCBCR				
	SERIAL/MULTI PROJECTOR SYNC IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)				
	SERIAL/MULTI PROJECTOR SYNC OUT	D-sub 9-pin (male) x 1 for link control				
	REMOTE 1 IN	M3 x 1 for wired remote control				
	REMOTE 1 OUT	M3 x 1 for link control (for wired remote control)				
	REMOTE 2 IN	D-sub 9-pin (female) x 1 for external control (parallel)				
	DIGITAL LINK	BJ-45 x 1 for network and DIGITAL LINK connections (HDBaseT™ compliant), PJLink™ (Class 2) compatible, 100Base-TX, Art-Net compatible, HDCP 2.2 compatible, Deep Color compatible, 4K signal input*				
	LAN	R.1-45 x 1 for network connection, PJLink** (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible				
Power supply		AC 100-240 V, 50/60 Hz				
Power consum	ption	TBD				
Cabinet materi	als	Molded plastic				
Operation noise	e*1	36 dB				
Dimensions (W	/ x H x D)	PT-RZ790: 498 x 200*6 x 581 mm (19 $^{19}/_{32}$ " x 7 $^{7}/_{8}$ "*6 x 22 $^{7}/_{8}$ ") (with supplied lens) PT-RZ790L: 498 x 200*6 x 538 mm (19 $^{19}/_{32}$ " x 7 $^{7}/_{8}$ "*6 x 21 $^{3}/_{16}$ ") (without lens)	PT-RZ690: 498 x 200°s x 581 mm (19 ¹9/ <sub>32</sub> " x 7 <sup>7</sup> / <sub>8</sub> "s x 22 <sup>7</sup> / <sub>8</sub> ") (with supplied lens) PT-RZ690L: 498 x 200°s x 538 mm (19 ¹9/ <sub>32</sub> " x 7 <sup>7</sup> / <sub>8</sub> "s x 21 <sup>3</sup> / <sub>16</sub> ") (without lens)			
Weight*7		PT-RZ790: Approx. 23.2 kg (51.1 lbs) (with supplied lens) PT-RZ790L: Approx. 22.4 kg (49.4 lbs) (without lens)	PT-RZ690: Approx. 23.2 kg (51.1 lbs) (with supplied lens) PT-RZ690L: Approx. 22.4 kg (49.4 lbs) (without lens)			
Operating envi	ronment	TBD				
Applicable soft	tware	Long Transfer Software, Multi Monitoring & Control Software, Geometry Manager Pro (ET-LIK20 L	Jpgrade Kit, ET-CUK10 Auto Screen Adjustment Kit), Smart Projector Control for iOS/Android™			

"1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. "2 Average light-output value of all shipped products measured at center of screen in NORMAL Mode." 3 Around this time, light toutput will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, NORMAL Mode, Dynamic Contrast (DM), under conditions with 35 °C (95 °P), 700 m (2.297 ft) above sea level, and 0.15 mg/m² of particulate matter. Estimated time until stip doubted eclines to 50 % varies depending on environment. "4 Lens shift is not supported or the ET-DLEOS.5 of 46 (spingals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DIGITAL UNK/HOME. \*6 Excluding legs. \*7 Average value. May differ depending on the actual unit.

### Optional Accessories

### • Fixed-Focus Lens

ET-DLE030 (0.380:1) / ET-DLE035 (0.380:1) / ET-DLE055 (0.785:1)

### • Zoom Lens

- ET-DLE020 (0.280-0.299:1) / ET-DLE060 (0.600-0.801:1) / FT-DI F085 (0.782-0.977:1) / FT-DI F105 (0.978-1.32:1) / ET-DLE150 (1.30–1.89:1) / ET-DLE170\* (1.71–2.41:1) / ET-DLE250 (2.27–3.62:1) / ET-DLE350 (3.58–5.45:1) /
- ET-DLE450 (5.36-8.58:1)
- \* The ET-DLE170 is equivalent of supplied lens. The availability of the ET-DLE170 varies depending on the country.

### • Ceiling Mount Bracket

- ET-PKD130H (6-axis, for high ceiling)
- ET-PKD120H (for high ceiling)
- ET-PKD120N (for low ceiling)

  Note: Use ET-PKD120H, ET-PKD120S, and ET-PKD130H in combination with ET-PKD130B. ET-PKD130H is recommended when used with ET-DLE030/ET-DLE035.
- Projector Mount Bracket
- ET-PKD130B DIGITAL LINK Switcher

ET-YFB200G Note: ET-YFB200G is not compatible with 4K signals.

### • Digital Interface Box

Note: ET-YFB100G is not compatible with 4K signals.

• Geometry Manager Pro Software Upgrade Kit FT-UK20

### • Auto Screen Adjustment Upgrade Kit

ET-CUK10/ET-CUK10P • Early Warning Software

ET-SWA100 Series Note: Part number suffix may differ depending on the license type. \* Multi Monitoring & Control Software Ver. 2.0 or later is required. Please download from the following website: www.panasonic.net/cns/projector/download/application





PT-FRZ60 Series 1-Chip DLP™ Projectors

AVAILABLE FROM SEPTEMBER 2020

# Easy-to-Manage 1-Chip DLP™ Laser Projectors Offer Clear Pictures in Bright Rooms with Flexible Integration in the Classroom or Office

















PT-FRZ60 Series					
	PT-FRZ60	PT-FRZ50	PT-FRZ55		
Light Output	6,000 lm*1/6,200 lm (Center)*2	5,200 lm*1/5,400 lm (Center)*2	5,000 lm*1/5,200 lm (Center)*2		
Resolution		WUXGA			

## • Dynamic Images in Bright Rooms with Silent Operation

No more dark rooms and distracting projector noise. PT-FRZ60 Series creates dynamic images that resist washout under lights while operating noise is reduced to an inaudible 27 dB<sup>\*3</sup> in Quiet Mode. Quartet Color Harmonizer optimizes wheel and filter to boost color vibrancy.

## Compact, Lightweight Projectors are Easy to Install

Projectors feature a 2.0x optical zoom<sup>4</sup> to increase throw-distance range for flexible installation, while 4K signal input<sup>\*5</sup> via CEC-compatible HDMI<sup>®</sup> and DIGITAL LINK smooths integration with the latest infrastructure. Separate LAN and 5 V/2 A USB outlet support wireless projection.

## Proven SOLID SHINE Laser Reliability

The PT-FRZ60 Series features a high-efficiency filterless cooling system, hermetically sealed DMD block, and dust-resistant shielded laser drive to assure 20,000 hours of stable maintenance-free projection. A linear brightness ramp and strong color retention preserve image quality for longer.

<sup>11</sup> Measurement, measuring conditions (TBD), and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. \*2 Average light-output value of all shipped products measured at center of screen in NORMAL Mode.

13 FAZSO/IFZ/55 only (TBD). FAZGO operates at 30 dB in Quiet Mode (TBD). \*4 Evoluding the PT-FAZSO. \*5 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DIGITAL LIMK/HDMP. \*16 Around this time, light output will have decreases by approximately 50 %. IEC62087: 2008 Broadcast Contents, NORMAL Mode, Dynamic Contrast (DM), temperature 35 °C (95 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of airborne particulate matter. Estimated time until brightness decreases to 50 % will vary depending on environment and usage conditions. Parts other than the light source may require replacement before 20,000 hours, and checkup is recommended around this time.

### Specifications (Tentative)

Model		PT-FRZ60	PT-FRZ50	PT-FRZ55			
Projector type		1-Chip DLP™ projector					
DLP™ chip	Panel size	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)					
	Display method	DLP™ chip x 1, DLP™ projection system					
	Number of pixels	2,304,000 (1920 x 1200 pixels)					
Light source		Laser diodes					
Light output		6,000 lm*1/6,200 lm (Center)*2	5,200 lm*1/5,400 lm (Center)*2	5,000 lm*1/5,200 lm (Center)*2			
Time until light out	put declines to 50 %*3	20,000 hours (NORMAL)	20,000 hours (NORMAL)				
Resolution		1920 x 1200 pixels					
Contrast ratio*1		20,000:1 (Full On/Full Off, Dynamic Contrast Mode: ON)					
Screen size [diagor	nal]	1.02-7.62 m (40-300 in), 16:10 aspect ratio					
Center-to-corner z	one ratio*1	90 %					
Lens		2.0x manual zoom (throw ratio: 1.46-2.94:1), manual focus,	F 2.0-3.4, f 21.5-43.0 mm	Fixed (throw ratio: 0.8:1), powered focus, F 1.75, f 11.9 mm			
Lens shift	Vertical	+64 %, -44 % (manual)		±4.4 % (powered)			
From the origin point of the lens mounter)	Horizontal	+34 %, -27 % (manual)	±2.1 % (powered)				
Keystone correction range		Vertical: $\pm 40$ °, Horizontal: $\pm 20$ °. When [VERTICAL KEYSTO correction cannot be made exceeding a total of $\pm 60$ °.	Vertical: ±25 °, Horizontal: ±20 °. When [VERTICAL KEYSTON and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of ±45 °.				
Installation		Ceiling/floor, front/rear, free 360-degree installation					
Terminals	HDMI® IN	HDMI 19-pin x 2 (Compatible with HDCP 2.2, Deep Color, 4K/60p signal input*4), CEC supported					
	COMPUTER 1 IN	D-sub HD 15-pin (female) x 1 (RGB/YPsPR/YCBCR/YC)					
	COMPUTER 2 IN/1 OUT	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR/YC)					
	VIDEO IN	Pin jack x 1 (composite video)					
	AUDIO IN 1	Pin jack x 2 (L, R)					
	AUDIO IN 2/3	M3 x 1/M3 x 1					
	AUDIO OUT	M3 x 1 (Variable)					
	SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compl	liant)				
	DIGITAL LINK	RJ-45 x 1 for network and DIGITAL LINK connections (HDBaseT™ compliant), PJLink™ (Class 2) compatible, 100Base-TX, Art-Net compatible, HDCP 2.2 compatible, Deep Color compatible, 4K/60p signal input*4					
	LAN	RJ-45 x 1 for network connection, PJLink™ (Class 2) compati	ble, 10Base-T/100Base-TX, Art-Net compatible				
	USB	USB connector (Type A) x 1 (Output 5 V/2 A)					
Power supply		AC 100-240 V, 50/60 Hz					
Power consumption	n	TBD					
Cabinet materials		Molded plastic					
Operation noise*1		30 dB (Quiet Mode) (TBD), 35 dB (Normal Mode) (TBD)	27 dB (Quiet Mode) (TBD), 32 dB (Normal Mode) (TBD)				
Dimensions (W x H	x D)	498 x 168*5 x 492 mm (19 5/8" x 6 5/8"*5 x 19 3/8")		498 x 168*5 x 481 mm (19 5/8" x 6 5/8"*5 x 18 15/16")			
Weight*6		Approx. 16.6 kg (36.6 lbs) (TBD)	Approx. 16.3 kg (35.9 lbs) (TBD)	Approx. 16.6 kg (36.6 lbs) (TBD)			
Operating environn	nent	Operating temperature: 0–40 °C (32–104 °F), operating humidity: 10–80 % (no condensation) (TBD)	Operating temperature: 0-45 °C (32-113 °F), operating humidity: 10-80 % (no condensation) (TBD)				
Applicable softwar	Δ	Logo Transfer Software, Multi Monitoring & Control Software,	Farly Warning Software				

\*1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. \*2 Average light-output value of all shipped products measured at center of screen in NORMAL Mode. '3 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadscat contents, NOMMAE, Dynamic Contrast (DM), under conditions with 35 \*C (95 \*F), DVO in (2,297 th) above sea level, and 0,15 mg/m² of particulate matter. Estimated time until light output declines to 50 % varies depending on environment. "44 Ks ginals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DiGITAL LIMK/HDIM!" "5 White jest at shortest position." 6 Average value. May differ depending on the actual unit.

### Optional Accessories

- Ceiling Mount Bracket ET-PKD120H\* (for high ceiling)
- ET-PKD120S\* (for low ceiling)
- \* The ET-PKD120H/PKD120S are used in combination with the ET-PKD130B (sold separately).
- Projector Mount Bracket
   FT-PKD130B
- DIGITAL LINK Switcher
- ET-YFB200G
- Digital Interface Box
- ET-YFB100G
- Note: ET-YFB100G is not compatible with 4K signals.
- Early Warning Software ET-SWA100/105
- Note: Part number suffix may differ depending on the license type
  \* Multi Monitoring & Control Software Ver. 2.0 or later is required.
  Please download from the following website:
  www.pansannic.pet/cns/cnjector/download/application/
- www.panasonic.net/cns/projector/download/application

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





PT-LB426 Series
Portable LCD Projectors

AVAILABLE FROM APRIL 2020

# Affordable LCD Portables Propose an Efficient Long-Life Solution for High-Contrast Projection in Offices and Classrooms





PT-LB426 Series						
	PT-LW376	PT-LW336	PT-LB426	PT-LB386	PT-LB356	PT-LB306
Light Output	3,600 lm*1	3,100 lm*1	4,100 lm*1	3,800 lm*1	3,300 lm*1	3,100 lm*1
Resolution	WX	GA.		X(	GA	

## • High-Visibility Images in Artificial Light

With 20,000:1 contrast—25 % higher\*2 than previous series—and up to 4,100 lm\*3 brightness, the PT-LB426 Series provides brilliant images from a compact 2.9 kg\*4 body. Daylight View Lite senses ambient brightness and optimizes for clearest image reproduction. Pictures are bright and easy to see in well-lit rooms.

## • Low Maintenance and Long Life

Low-degradation lamp lasts 20,000 hours\*5 in Eco Mode while easy-access filter can be swapped at 10,000 hours\*6, reducing parts inventory and cost of maintenance. Multi Monitoring & Control Software with Early Warning\*7 functions detects potential problems before they can interrupt a presentation, boosting reliability.

## • Flexible Installation, Easy Operation

With 1.2x zoom and V/H Keystone Correction\*8 (H: ±35°, V: ±35°), the projectors can be placed almost anywhere. Network models add dual HDMI®\*9 for media players, PCs, or a streaming device powered by a 5 V/2 A USB outlet\*10. This terminal also supports the optional ET-WML100/AJ-WM50 Series\*11 wireless module for screen mirroring.

<sup>&</sup>quot;1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. "2 In comparison to the Panasonic PT-LB425 Series. "3 For the LB426 only. Refer to footnote (1) for measurement conditions." 4 LB306 weights 2.8 kg. "5 Lamp life is approximately 20,000 hours in Eco Mode and approximately 10,000 hours in Normal/Quiet Mode. Lamp replacement timing varies depending on operating environment and usage conditions. "6 Multi Monitoring & Control Software supported on network models only. Early Warning Functions (ET-SWA100) are included free with Multi Monitoring & Control Software Ver. 2.0 and later (free download), but require a paid license key and activation at the PASS website to use after a 90-day trial period has septiced. Visit panasonic net/ors/prorigor/controls/mnrcs/ for more information." 8 Excluding the LB306, which has vertical keystone correction of ±30 ". "9 For all projectors excluding the LB306, which has a USB terminal for service only." \*11 Subject to regional availability.

### Specifications (Tentative)

Model		PT-LW376	PT-LW336	PT-LB426	PT-LB386	PT-LB356	PT-LB306	
Projector typ	pe	LCD projector						
LCD panel	Panel size	15.0 mm (0.59 in) diagonal (16	:10 aspect ratio)	16.0 mm (0.63 in) diagonal (4	:3 aspect ratio)			
	Display method	Transparent LCD panel (x 3, R/	G/B)	•				
	Drive method	Active matrix method	Active matrix method					
	Number of pixels	1,024,000 (1280 x 800 pixels)	х 3	786,432 (1024 x 768 pixels) :				
Light source	9	230 W x 1 lamp		'				
Light output	<b>*</b> 1	3,600 lm	3,100 lm	4,100 lm	3,800 lm	3,300 lm	3,100 lm	
Lamp replac	cement cycle*2	Normal: 10,000 h/Eco: 20,000	h/Quiet: 10,000 h	•	'	•	<u> </u>	
Filter replace	ement cycle	Normal: 5,000 h/Eco: 6,000 h	/Quiet: 10,000 h					
Resolution	•	1280 x 800 pixels		1024 x 768 pixels				
Contrast rati	ast ratio*1 20,000:1 (All white/all black, Iris: On, Image mode: Dynamic, Lamp control: Normal)							
Screen size		0.76-7.62 m (30-300 in), 16:		0.76-7.62 m (30-300 in), 4:	3 aspect ratio			
	orner zone ratio*1	85 %		( , , , , , , , , , , , , , , , , , , ,				
Lens		Manual zoom (1.2x), manual focus lens, F = 1.6-1.76, f = 19.16-23.02 mm, throw ratio: 1.48-1.78:1	Manual zoom (1.2x), manual focus lens, F = 2.1–2.25, f = 19.11–22.94 mm, throw ratio: 1.47–1.77:1	Manual zoom (1.2x), manual f throw ratio: 1.48–1.78:1	ocus lens, F = 1.6–1.76, f = 19.1	6-23.02 mm,	Manual zoom (1.2x), manua focus lens, F = 2.1-2.25, f = 19.11-22.94 mm, throw ratio: 1.47-1.77:1	
Keystone co	rrection range	e Vertical: ±35 ° (Auto, Manual), Horizontal: ±35 ° (Manual) (TBD) Ver				Vertical: ±30 ° (Manual) (T		
Installation		Ceiling/floor, front/rear						
Terminals	HDMI® IN	HDCP1.4, Deep Color), A Linear PCM (Sampling fre					HDMI 19-pin x 1 (Compatible wi HDCP1.4, Deep Color), Audio si Linear PCM (Sampling frequenci 48 kHz, 44.1 kHz, 32 kHz)	
	COMPUTER 1 IN	D-sub HD 15-pin (female) x 1 [	D-sub HD 15-pin (female) x 1 [RGB/S-Video/YPB(CB)PR(CR)]					
	COMPUTER 2 IN/1 OUT	D-sub HD 15-pin (female) x 1 [	D-sub HD 15-pin (female) x 1 [RGB]  D-sub HD 15-pin (female) x 1 [RGB]  [RGB] (RGB OUT only)					
	VIDEO IN	Pin jack x 1						
	AUDIO IN 1	M3 (L,R) x 1						
	AUDIO IN 2	Pin jack x 2 (L,R)						
	AUDIO OUT	M3 (L,R) x 1 (Variable)						
	LAN	1.7 1	ion, 10Base-T/100Base-TX, PJLii	nk™ (Class 1) compatible			_	
	SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compatible)						
	USB A	USB Type-A (for Memory Viewe	er Light/Wireless Module (Output	5 V/2 Al)			_	
		Cob Type A for memory views Eight vincless mounte [output 3 viz A])					For service only	
	USB B							
Power suppl		AC 100-240 V, 50/60 Hz						
Power suppl	ly	AC 100-240 V, 50/60 Hz 300 W						
	ly umption						2 W monaural	
Power consu	ly umption aker	300 W					2 W monaural	
Power consu Built-in spea	ly umption aker terials	300 W 10 W monaural	iet: 30 dB				2 W monaural	
Power consu Built-in spea Cabinet mat	ly umption aker terials oise*1	300 W 10 W monaural Molded plastic					2 W monaural	
Power consu Built-in spea Cabinet mat Operation no	ly umption aker terials oise*1	300 W 10 W monaural Molded plastic Normal: 38 dB, Eco: 35 dB, Qu						
Power consu Built-in spea Cabinet mat Operation no Dimensions	ly umption aker terials oise* <sup>1</sup> (W x H x D)	300 W 10 W monaural Molded plastic Normal: 38 dB, Eco: 35 dB, Qu 335 x 96*3 x 252 mm (13 3/16*) Approx. 2.9 kg (6.4 lbs)		ty: 20–80 % (no condensation)			2 W monaural Approx. 2.8 kg (6.2 lbs)	

<sup>\*1</sup> Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. \*2 Lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle stated is not stated in the cycle stated is not stated as a stated in the cycle stated is not stated in the cycle stated in the cycle stated is not stated in the cycle stated in the cycle stated is not stated in the cycle stated in the cycle stated is not stated in the cycle stated in th

### Optional Accessories

- Ceiling Mount Bracket
   ET-PKL100H\* (for high ceiling)
   ET-PKL100S\* (for low ceiling)
   The ET-PKL100HET-PKL100S are used in combination with the ET-PKL420B (sold senarately)
- Projector Mount Bracket ET-PKL420B
- Replacement Filter Unit ET-RFL300 Note: Filter cover not included.
- Note: Filter cover not included.

   Replacement Lamp Unit

ET-LAL510

- Wireless Module
  - ET-WML100/AJ-WM50 Series\*
  - Product availability may vary by country or reg
     D-sub/S-VIDEO Conversion Cable
  - ET-ADSV





# PT-TW381R Series Short-Throw LCD Projectors

AVAILABLE FROM APRIL 2020

# Short-Throw Projectors Promote Effective Communication Without Screen Shadowing







\* Requires optional T-WML100/AJ-WM50 Series wireless module

PT-TW381R Series						
	PT-TW381R PT-TW380 PT-TX440 PT-TX350					
Light Output	3,300 lm*1		3,800 lm*1	3,200 lm*1		
Resolution	WXGA		X(	GA		

## • Beautiful Interactive Images, No Presenter Shadowing

With high-contrast brilliance enhanced by Daylight View Lite, the PT-TW381R Series punches through ambient light to deliver colorful pictures. The PT-TW381R's interactive function expands with Whiteboard Software while the projectors avoid shadowing with throw-distances as short as 79 cm\*2 or less.

### • Low-Maintenance Endurance Reduces TCO

Central to projector design is a low-degradation lamp engineered for 20,000 hours\*3 of operation. Filter needs no maintenance until 10,000 hours\*4 and takes just moments to replace. Save time and money with dependable set-and-forget projection you can count on.

## • Simple Setup with Extensive Connections

V/H keystone corrects the picture once the projector is set. Dual HDMI® inputs, two D-sub inputs\*5, and 5 V/2 A USB outlet for streaming devices are equipped, while the optional ET-WML100/AJ-WM50 Series\*6 module enables screen mirroring from PC or mobile. Plug-and-play connections join RS-232C and LAN for control and automation systems.

<sup>\*1</sup> Measurement, measuring conditions, and method of notation all comply with ISO/EC 21118: 2012 international standards. Value is average of all products when shipped. \*2 79 cm for the TW381R and TW380, 75 cm for the TX440 and TX350 when projecting an 80-inch image. \*3 Lamp life is approximately 20,000 hours in Eco Mode and approximately 10,000 hours in Normal/Quiet Mode. Lamp replacement timing varies depending on operating environment and usage conditions. \*4 In Quiet Mode. Replacement timing varies depending on operating environment and usage conditions. \*5 One input is shared with the D-sub output. \*6 Subject to regional availability.

### Specifications (Tentative)

Model Projector type		PT-TW381R PT-TW380	PT-TX440	PT-TX350		
		LCD projector				
LCD panel	Panel size	15.0 mm (0.59 in) diagonal (16:10 aspect ratio) 16.0 mm (0.63 in) diagonal (4:3 aspect ratio)				
	Display method	Transparent LCD panel (x 3, R/G/B)				
	Drive method	Active matrix method				
	Number of pixels	1,024,000 (1280 x 800 pixels) x 3	786,432 (1024 x 768 pixels) x 3			
Light source		230 W x 1 lamp				
Light output'	*1	3,300 lm	3,800 lm	3,200 lm		
Lamp replac	ement cycle*2	Normal: 10,000 h/Eco: 20,000 h/Quiet: 10,000 h				
Filter replace	ement cycle	Normal: 5,000 h/Eco: 6,000 h/Quiet: 10,000 h				
Resolution		1280 x 800 pixels	1024 x 768 pixels			
Contrast rati	io*1	20,000:1 (All white/all black, Iris: On, Image mode: Dynamic, Lamp control: Normal)				
Screen size	[diagonal]	1.27-2.54 m (50-100 in), 16:10 aspect ratio	1.27-2.54 m (50-100 in), 4:3 aspect ratio			
Center-to-co	orner zone ratio*1	85 %				
Lens		Fixed zoom, manual focus lens, F = 1.8, f = 6.08 mm, throw ratio: 0.46:1 (Projection distance: 0.79 m [2.59 ft] for 80-inch image)	Fixed zoom, manual focus lens, F = 1.8, f = throw ratio: 0.46:1 (Projection distance: 0.75)			
Keystone co	rrection range	Vertical: ±15 ° (Auto, Manual), Horizontal: ±15 ° (Manual)				
Installation		Ceiling/floor, front/rear				
Terminals	HDMI® IN	HDMI 19-pin x 2 (Compatible with HDCP 1.4, Deep Color), Audio signal: Linear PCM (Sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)				
	COMPUTER 1 IN	D-sub HD 15-pin (female) x 1 [RGB/S-Video/YPB(C8)PR(CR)]				
	COMPUTER 2 IN/1 OUT	D-sub HD 15-pin (female) x 1 [RGB]				
	VIDEO IN	Pin jack x 1				
	AUDIO IN 1	M3 (L,R) x 1				
	AUDIO IN 2	Pin jack x 2 (L,R)				
	AUDIO OUT	M3 (L,R) x 1 (Variable)				
	LAN	RJ-45 x 1 for network connection, 10Base-T/100Base-TX, PJLink™ (Class 1) compa	tible			
	SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compatible)				
	USB	USB Type-A (for Memory Viewer Light/Wireless Module [Output 5 V/2 A])				
	Mini USB	x 1 (for Interactive function)				
Power supply	у	AC 100-240 V, 50/60 Hz				
Power consu	ımption	300 W	300 W			
Built-in spea	ıker	10 W monaural				
Cabinet mate	erials	Molded plastic				
Operation no	oise*1	Normal: 38 dB, Eco: 35 dB, Quiet: 30 dB				
Dimensions	(W x H x D)	335 x 134.1*3 x 329 mm (13 3/ <sub>16</sub> " x 5 9/ <sub>32</sub> "*3 x 12 <sup>15/</sup> <sub>16</sub> ")				
Weight*4		Approx. 3.9 kg (8.6 lbs)				
Operating en	nvironment	Operating temperature: 5-40 °C (41-104 °F), operating humidity: 20-80 % (no cor	densation)			
Applicable so	oftware	Multi Monitoring & Control Software, Presenter Light Software (for Windows®), Wirel	ess Projector			

<sup>\*1</sup> Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. \*2 Lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle. \*3 With legs at shortest position. \*4 Average value. May differ depending on the actual unit.

### Optional Accessories

- Ceiling Mount Bracket ET-PKL100H\* (for high ceiling)
- Projector Mount Bracket ET-PKL430B
- Replacement Filter Unit FT-RFI 300
- Note: Filter cover not included. Replacement Lamp Unit ET-LAL510
- Interactive Light Pen
- ET-PEN100 Note: Exclusively for PT-TW381R. Same as supplied Interactive Light Pen. Interactive Pointer
- ET-PNT100 Note: Exclusively for PT-TW381R.
- Wireless Module
- FT-WMI 100/AJ-WM50 Series\*
- D-sub/S-VIDEO Conversion Cable





**SQ1H** Series **4K UHD DISPLAYS** 



# Ultra-bright Professional Displays Provide Clear Images **Under High Ambient Lighting Conditions**















	SQ1H Series					
	TH-86SQ1H	TH-75SQ1H	TH-65SQ1H	TH-55SQ1H		
Screen Size	86-inch class	75-inch class	65-inch class	55-inch class		
Brightness	1000cd/m <sup>2</sup> c	1000cd/m² or more (TBD) 2000cd/m² or more (TBD)				
Contrast		TBD				
Resolution		4K (3840 x	2160) (TBD)			

## • Ultra-bright Picture Quality

Compatible with installation in atriums exposed to glare and outdoor display windows, and equipped with high-brightness panels. Compatible with the "12-axis Color Management Function" and "HDR". Thoroughly displays the rich colors of 4K images.

## • Easy Installation

Various types of installation have become possible while taking into consideration the space and legibility.

## Superb Reliability

Efficiency and high reliability for the environment. This model is capable of constant, 24/7 operation.

## Easy Signage System Configuration

Supports Intel® Smart Display Module (Intel® SDM) specification and USB media player.

### Specifications (Tentative) \*Design and specification subject to change without notice.

Model		TH-86SQ1H	TH-75SQ1H	TH-65SQ1H	TH-55SQ1H				
Display	Panel size	86-inch class	75-inch class	65-inch class	55-inch class				
Panel	Panel type / Backlight	TBD							
	Aspect ratio	16:9							
	Effective display area (W x H)	TBD	TBD	TBD	TBD				
	Resolution	3840 x 2160 (TBD)							
	Brightness (typ.)	1000 cd/m <sup>2</sup> or more (TBD)		2000 cd/m <sup>2</sup> or more (TBD)					
	Contrast ratio (typ.)	TBD							
	Response time (typ.)	TBD							
	Viewing angle [(T/B)/(L/R)]	TBD	TBD						
	Panel Surface Treatment	TBD							
Terminals	HDMI In	HDMI TYPE-A Connector x 2 (Compatible	e with HDCP 2.2)						
	DisplayPort In	DisplayPort x 1 (HDCP2.2) (TBD)							
	DisplayPort Out	DisplayPort x 1 (HDCP2.2) (TBD)							
	DVI-D	DVI-D 24-pin x 1 (HDCP 1.1) (TBD)							
	PC In	Mini D-sub 15-pin x 1 (TBD)							
	Serial in	D-sub 9-pin x 1, RS232C Compatible	D-sub 9-pin x 1, RS232C Compatible						
	IR In/Out	Stereo Mini Jack (M3) x 1 / x 1							
	Audio In	Stereo Mini Jack (M3) x 2 0.5V [rms]							
	Audio Out	Stereo Mini Jack (M3) x 1 0.5 V [rms], Variable (- ∞ - 0 dB) (1 kHz 0 dB Input, 10 kΩ Load)							
	LAN	RJ45 x 1, 10 BASE-T / 100 BASE-TX, Compatible with PJLink™							
	DIGITAL LINK	RJ45 x 1, 100 BASE-TX, Compatible with long reach mode and PJLink™ (TBD)							
	Slot	Intel® SDM specification							
	USB	USB Connector (TYPE-A) x 2, DC 5 V/2 A, DC 5 V/1A (USB 3.0 Supported)							
Built-in spea	aker	20 W [10 W + 10 W]							
External spe	eaker out	30 W [15 W + 15 W] 10% THD							
Power requi	rements	110-127 V AC, 50/60 Hz, 220-240 V A	110-127 V AC, 50/60 Hz, 220-240 V AC, 50/60 Hz						
Power consu	umption	TBD	TBD	TBD	TBD				
Power off co	ondition	TBD	TBD	TBD	TBD				
Standby con	ndition	TBD	TBD	TBD	TBD				
Dimensions	$(W \times H \times D)$	TBD	TBD	TBD	TBD				
Weight		TBD	TBD	TBD	TBD				
Bezel width		TBD	TBD	TBD	TBD				
Wall-hangin	g pitch	VESA Compliant		'	1				
Orientation		Landscape/Portrait							
Tilting angle	)		Landscape setting: 0 - 20 degrees forward/backward (TBD)  Portrait setting: 0 - 45 degrees forward/backward (TBD)  Portrait setting: 0 - 45 degrees forward/backward (TBD)  Portrait setting: 0 - 45 degrees forward/backward (TBD)						
Operating til	me	24 h/day		1					
Operating er				Z4 Ir/day  Temperature: 0 °C to 40 °C (32 °F to 104 °F)/Humidity: 20-80 % (Non condensation)/for up to 0-1400 m (4593 ft) altitude.  Temperature: 0 °C to 35 °C (32 °F to 95 °F)/Altitude 1400 -2800 m (4593 ft to 7874 ft)					

### Optional Accessories

- Farly Warning Software\* ET-SWA100/105 Series<sup>2</sup>

- \*1: Multi Monitoring & Control Software ver.2.1 or later required.
  \*2: Part number suffix may differ depending on the license type.

• Auto Display Adjustment Upgrade Kit

### Software (free)

- . Content Management Software (Ver.3.0 or later)
- \* Windows® only.
- Multi Monitoring & Control Software (Ver.2.1)
- Video Wall Manager





**SQE1** Series 4K UHD DISPLAYS



# Versatile Lineup of 4K High-resolution Displays **Support 24-hour Operation**

















SQE1 Series									
	TH-98SQE1 TH-86SQE1 TH-75SQE1 TH-65SQE1 TH-55SQE1 TH-49SQE1 TH-43SQE1								
Screen Size	98-inch class	86-inch class	75-inch class	65-inch class	55-inch class	49-inch class	43-inch class		
Brightness		500 cd/m <sup>2</sup>							
Contrast		TBD							
Resolution	4K (3840 x 2160)								

## • High Picture Quality

Four times higher resolution quality than Full HD has been achieved to display 4K video that expresses images in detail.

## • Easy Installation

Compatible with a wide range of applications, for a design that blends into spaces. Supports 24/7 continuous operation. Ideal for installation in public spaces.

## • Wide Expandability

Intel® SDM (Smart Display Module) specifications have been adopted. The range of use can be expanded by combining it with various function boards.

### Specifications (Tentative) \*Design and specification subject to change without notice.

Model		TH-98SQE1	TH-86SQE1	TH-75SQE1	TH-65SQE1	TH-55SQE1	TH-49SQE1	TH-43SQE1				
Display Panel	Panel size	98-inch class	86-inch class	75-inch class	65-inch class	55-inch class	49-inch class	43-inch class				
	Panel type / Backlight	TBD										
	Aspect ratio	16:9										
	Effective display area (W x H)	TBD	TBD	TBD	TBD	TBD	TBD	TBD				
	Resolution	3840 x 2160										
	Brightness (typ.)	500 cd/m <sup>2</sup>										
	Contrast ratio (typ.)	TBD										
	Response time (typ.)	TBD										
	Viewing angle [(T/B)/(L/R)]	TBD										
	Panel Surface Treatment	TBD										
Terminals	HDMI In	HDMI TYPE-A Connector x 4										
	DisplayPort In	DisplayPort x 1 (HDCP2.2)										
	DisplayPort Out	DisplayPort x 1 (HDCP2.2)										
	DVI-D In	1										
	PC In	Mini D-sub 15-pin x 1										
	Serial	D-sub 9-pin x 1, RS232C Compatible										
	IR In	Stereo Mini Jack (M3) x 1										
	Audio In	Pin Jack (L/R) x 1 (TBD)										
	Audio Out	Stereo Mini Jack(M3) x1 SPDIF×1										
	LAN	RJ45 x 1										
	Slot	Intel® SDM specification										
	USB	USB Connector (TYPE A) x 1, (TYPE C) x 1(TBD)										
WiFi		x 1										
Built-in spea	aker	24 W [12 W + 12 W] 16 W [8 W + 8 W]										
Power requi	rements	110-127 V AC, 50/60 Hz	220-240 V AC, 50/60 Hz									
Power consu	umption	TBD	TBD	TBD	TBD	TBD	TBD	TBD				
Power off co	ondition	TBD	TBD	TBD	TBD	TBD	TBD	TBD				
Standby con	ndition	TBD	TBD	TBD	TBD	TBD	TBD	TBD				
Dimensions	$(W \times H \times D)$ (TBD)	2236 x 1292 x 98 mm	1928 x 1099 x 80 mm	1684 x 967mm x100 mm	1459 x 853 x 96 mm	1238 x 712 x 104 mm	1102 x 635 x 104 mm	966 x 557 x 106 mm				
Weight (TBD	0)	102.3 kg	65.8 kg	37.2 kg	24.5 kg	17.1 kg	13.7 kg	10.3 kg				
Bezel width		39 mm (T/B/L/R)	15 mm (T/B/L/R)	16 mm (T/R/L), 21 mm (B)	15 mm (T/R/L), 21 mm (B)	11 mm (T/R/L), 14 mm (B)	11 mm (T/R/L), 15 mm (B)	9 mm (T), 10 mm (R. 13 mm (B)				
Wall-hanging pitch		900 x 600 mm, M8 600 x 400 mm, M8 400 x 400 mm, M6 400 x 200 mm , M6 200 x 200 mm , M6										
Orientation		Landscape/Portrait										
Tilting angle		Landscape setting: 0 - 20 degrees forward/backward, Portrait setting: 0 - 20 degrees forward/backward (TBD)										
Operating time		24 h/day										
Operating environment			Temperature: 0 °C to 40 °C (32 °F to 104 °F)/Humidity: 20-80 % (Non condensation)/for up to 0-1400 m (4593 ft) altitude. Temperature: 0 °C to 35 °C (32 °F to 95 °F)/Altitude 1400 -2800 m (4593 ft to 7874 ft)									

Optional Accessories	Software		
(TDD)	(TDD)		

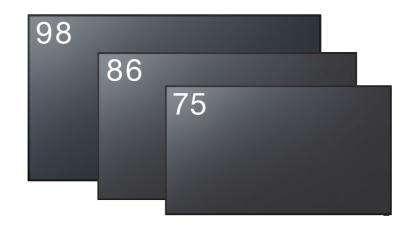




CQE1 Series
4K UHD DISPLAYS



# 4K Entry Displays with High Picture Quality Enhance Presentation Effect.











CQE1 Series									
	TH-98CQE1W TH-86CQE1W TH-75CQE1W TH-65CQE1W TH-55CQE1W TH-49CQE1W TH-43CQE1V								
Screen Size	98-inch class	86-inch class	75-inch class	65-inch class	55-inch class	49-inch class	43-inch class		
Brightness		400 cd/m <sup>2</sup>							
Contrast		TBD							
Resolution		4K (3840 x 2160)							

## • High Picture Quality

Highly detailed images in 4K resolution (3840×2160) supporting 4K/60p signals for faithful expression of high-quality content.

## • Excellent Reliability

Enables continuous operation 16 hours a day, without any concern. Ideal everyday use for offices, schools, and other applications.

## • Various Types of Operation

Supports 4 HDMI input terminals for high-frequency use, and other basic terminals are also provided as standard equipment.



### Specifications (Tentative) \*Design and specification subject to change without notice.

Model		TH-98CQE1W	TH-86CQE1W	TH-75CQE1W	TH-65CQE1W	TH-55CQE1W	TH-49CQE1W	TH-43CQE1W				
Display Panel	Panel size	98-inch class	86-inch class	75-inch class	65-inch class	55-inch class	49-inch class	43-inch class				
	Panel type / Backlight	TBD										
	Aspect ratio	16:9										
	Effective display area (W x H)	TBD	TBD	TBD	TBD	TBD	TBD	TBD				
	Resolution	3840 x 2160										
	Brightness (typ.)	400 cd/m <sup>2</sup>										
	Contrast ratio (typ.)	TBD										
	Response time (typ.)	TBD										
	Viewing angle [(T/B)/(L/R)]	TBD										
	Panel Surface Treatment	TBD										
Terminals	HDMI In	HDMI TYPE-A Connector x 4										
	PC In	Mini D-sub 15-pin x 1 (Female)										
	Serial	D-sub 9-pin x 1, RS232C Compatible										
	IR In	Stereo Mini Jack (M3) x 1										
	Audio in	Pin Jack (L/R) x1 (TBD)										
	Audio out	Stereo Mini Jack (M3) x 1, SPDIF x1										
	LAN	RJ 45 x 1										
	USB	USB Connector TYPE-A×1, Type-C x 1										
Wifi		x1										
Built-in spea	aker	24 W [12 W + 12 W] [16 W [8 W + 8 W]										
Power requi	rements	220-240 V AC, 50/60 Hz										
Power cons	umption	TBD	TBD	TBD	TBD	TBD	TBD	TBD				
Power off co	ondition	TBD	TBD	TBD	TBD	TBD	TBD	TBD				
Standby cor	ndition	TBD	TBD	TBD	TBD	TBD	TBD	TBD				
Dimensions	$(W\times H\times D)$	2236 x 1292 x 98 mm (TBD)	1928 x 1099 x 80 mm (TBD)	1684 x 967 x 100 mm (TBD)	1459 x 853 x 75 mm (TBD)	1238 x 712 x 87 mm (TBD)	1102 x 635 x 85 mm (TBD)	966 x 557 x 86 mm (TBD)				
Weight		102.3 kg (TBD)	65.8 kg (TBD)	37.2kg (TBD)	24.5 kg (TBD)	17.1 kg (TBD)	13.7 kg (TBD)	10.3 kg (TBD)				
Bezel width		39 mm (T/B/L/R)	15 mm (T/B/L/R)	16 mm (T/R/L), 21 mm (B)	15 mm (T/R/L), 21 mm (B)	11 mm (T/R/L), 14 mm (B)	11 mm (T/R/L), 15 mm (B)	9 mm (T), 10 mm (R/L), 13 mm (B)				
Wall-hanging pitch		900 x 600 mm, M8	600 x 400 mm, M8		400 x 400 mm, M6	400 x 200 mm, M6	200 x 200 mm, M6					
Orientation		Landscape										
Tilting Angle		0-20 degree forward (TBD)										
Operating time		16 h/day										
Operating environment			Temperature: 0 °C to 40 °C (32 °F to 104 °F)/Humidity: 20-80 % (Non condensation)/for up to 0-1400 m (4593 ft) altitude. Temperature: 0 °C to 35 °C (32 °F to 95 °F)/Altitude 1400 -2800 m (4593 ft to 7874 ft)									





# Wireless Presentation System

AVAILABLE FROM MID FY2020

Availability varies depending on model

# Panasonic Launches a Wireless Presentation System Compatible

**Achieving Efficient Presentations with Simple Operation** 



### • Smart Installation

Images can be displayed from a wireless PC, with two types of receivers available to suit the environment of the user. The STB receiver type can be used with Panasonic pro displays and projectors. Simply connect an HDMI cable. The Intel® SDM standard type receiver attaches to expansion slots on the rear of the display, requiring no installation space.

## • Simple Operation

There is no special software installation necessary for the PC. The presenter's PC can also be switched by simply pressing a button, with no need to reconnect the cable. The user simply presses a button on the transmitter to display the PC screen.

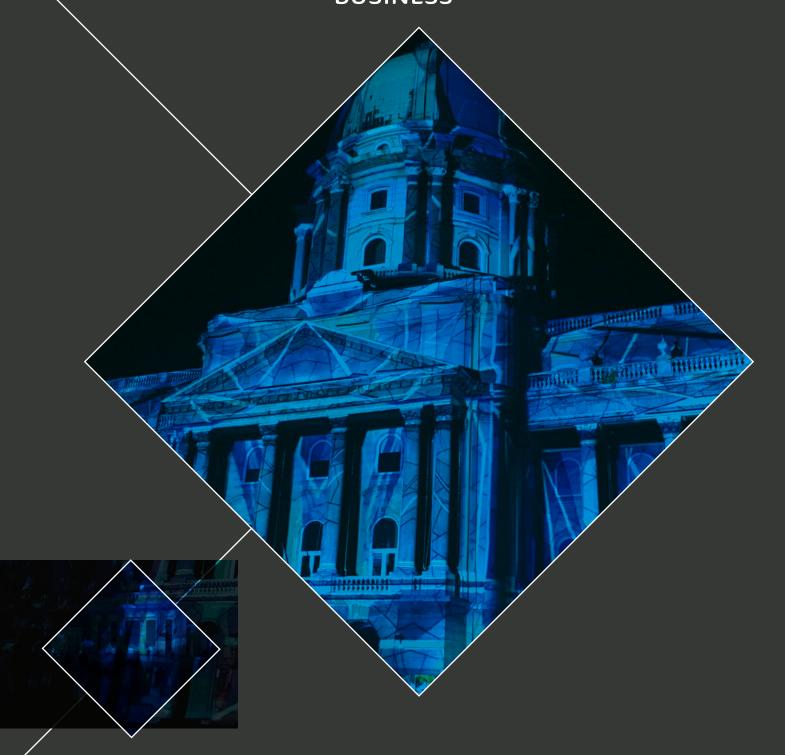
## • High Image Quality

Hardware processing enables image compression and decompression for Full-HD resolution. Wireless transmission is IEEE802.11ac compliant. Presentations containing video content are also supported.

Model Name	Wireless Presentation System							
Model Name	Receiver Receiver (Set top box) (Functional Board)		Transmitter					
Resolution (Max)	Full HD							
Wi-Fi	IEEE802.11ac							
Receiver type	Set Top Box	Intel® SDM S-type	-					
Registered no. of Transmitters	32 units							
Number of Simultaneous Screen Connections								
Audio Transmission	Yes							
Dimensions (W x H x D)	TBD	TBD	TBD					
Weight	TBD	TBD	TBD					
Compatible Displays	Panasonic pro displays, projectors	SQ1 Series* (As of Feb.)	-					

\* 4K output not possible

# **Panasonic BUSINESS**



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