

 THE FREEDOM
TO CREATE



PRELIMINARY BROCHURE

June 2019



■ Projectors

PT-RQ50K

3-Chip DLP™ Projector

PT-RCQ10 Series

1-Chip DLP™ Projectors

PT-MZ16K Series

LCD Projectors

PT-LRZ35 Series

1-Chip DLP™ Projectors

Optional Accessories

ET-D3LEU100

Ultra-Short-Throw Lens for 3-Chip DLP™ Projectors

ET-DLE020

Ultra-Short-Throw Zoom Lens for 1-Chip DLP™ Projectors

ET-D3LEW200

Short-Throw Zoom Lens for 3-Chip DLP™ Projectors

■ Flat-Panel Displays

SQ1 Series

4K UHD Displays

VF/LFV Series

Video Wall LCD Displays

CQ1 Series

4K UHD Professional TV

Optional Accessories

SB01 Series

Wireless Presentation System

Reinvent Your Business with the World's First*¹ 50,000 Im^{*2} Laser Projector with Native 4K Resolution



* Resolution 4096 x 2160 Pixels



	PT-RQ50K
Light Output	50,000 Im ^{*2}
Resolution	4K (4096 x 2160)

• Brilliant Native 4K Images for Absolute Immersion

Achieves Native 4K resolution at 50,000 lumens*² with red and blue lasers in a dual SOLID SHINE Laser Phosphor drive producing pure, vibrantly emotional colour.

• Swift Setup with Single-Body Design

Produces 50,000 Im^{*2} from the same footprint as Panasonic's 30,000-Im-class 3-Chip DLP™ laser models. Compact all-in-one body simplifies transport and installation for fast setup and adjustment.

• Reliable Operation for Mission-Critical Applications

Highlighting a "dualized" design concept are dual solid-state lasers and backup video inputs. Hermetically sealed optics and filterless design contribute to 20,000 hours*³ maintenance-free projection even in severe conditions.

Specifications (Tentative)

Model		PT-RQ50K
Projector type		3-Chip DLP™ projector
DLP™ chip	Panel size	35.1 mm (1.38 in) diagonal (17:9 aspect ratio)
	Display method	DLP™ chip x 3, DLP™ projection system
	Number of pixels	8,847,360 (4096 x 2160) pixels x 3, total of 26,542,080 pixels
Light source		Laser diodes (Blue LD, Red LD)
Light output*1		50,000 lm
Time until light output declines to 50 %*2		20,000 hours (NORMAL)
Resolution		4K (4096 x 2160 pixels)
Contrast ratio*1		20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)
Screen size [diagonal]		2.54–25.4 m (100–1,000 in) with new optional lens for PT-RQ50KU, 17:9 aspect ratio (depending on lens)
Center-to-corner zone ratio*1		TBD
Lens		New optional lenses for PT-RQ50KU (no lens included with this model)
Lens shift	Vertical (from center of screen)	TBD
	Horizontal (from center of screen)	TBD
Keystone correction range		TBD
Installation		Horizontal/vertical, free 360-degree installation
Terminals	MULTI PROJECTOR SYNC IN	BNC x 1
	MULTI PROJECTOR 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
	REMOTE 1 IN	M3 x 1 for wired remote control
	REMOTE 1 OUT	M3 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, DIGITAL LINK connection (HDBase™ compliant), 100Base-TX, compatible with Art-Net, PjLink™ (Class 2), Deep Color, HDCP 2.2
	LAN	RJ-45 x 1 for network, 10Base-T/100Base-TX, compatible with Art-Net, PjLink™ (Class 2)
	USB	USB Connector (Type A) x 1 for Cloning/Wireless Module (output 5 V/2 A)
	Expansion Slot 1	Interface Board for 12G-SDI (ET-MDN12G10) supplied
	Expansion Slot 2	Optional interface boards, SLOT NX compatible
Power supply		AC 200–240 V, 50/60 Hz; AC 100–120 V, 50/60 Hz (Brightness restricted with voltage lower than 200 V)
Power consumption		TBD
Cabinet materials		Metal (partly plastic mold)
Operation noise*1		TBD
Dimensions (W x H x D)		1,070 x 445 x 720 mm (42 1/8" x 17 17/32" x 28 17/32")
Weight*3		Under 130 kg (287 lbs)
Operating environment		Operating temperature: 0–45 °C (32–113 °F)*4, operating humidity: 10–80 % (no condensation)
Applicable software		Logo Transfer Software, Multi Monitoring & Control Software, Geometry Manager Pro, 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 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, NORMAL Mode, Dynamic Contrast [3], under conditions with 35 °C (95 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m³ of particulate matter. Estimated time until light output declines to 50 % varies depending on environment. *3 Average value. May differ depending on the actual unit. *4 When using the projector at an altitude lower than 2,700 m (8,858 ft) above sea level, and the operating environment temperature becomes 30 °C (86 °F) or higher, the light output may be reduced to protect the projector. When using the projector at an altitude between 2,700 m (8,858 ft) and 4,200 m (13,780 ft), and the operating environment temperature becomes 25 °C (77 °F) or higher, the light output may be reduced to protect the projector.

Optional Accessories

- **Zoom lens**
ET-D30W300 (1.1-1.7:1)
ET-D30S400 (1.6-2.1:1)
ET-D30T500 (2.1-3.4:1)
ET-D30T600 (3.0-3.9:1)
ET-D30T700 (3.9-5.4:1)
ET-D30T800 (5.4-7.7:1)
- **Interface Board for 12G-SDI Input**
ET-MDN12G10
- **Interface Board for HDMI® (HDCP 2.2) Input (Input x 2)**
ET-MDNHM10
- **Interface Board for DVI Input**
ET-MDNDV10
- **Interface Board for 3G-SDI Input**
TY-TBN03G
- **Interface Board for DisplayPort™**
ET-MDNDP10
- **DIGITAL LINK Switcher**
ET-YFB200G
Note: ET-YFB200G is not compatible with 4K signals.
- **Digital Interface Box**
ET-YFB100G
Note: ET-YFB100G is not compatible with 4K signals.
- **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:
<https://panasonic.net/cns/projector/download/application/>

PT-RCQ10 Series

1-Chip DLP™ Projectors

AVAILABLE FROM DECEMBER 2019

New 4K Smooth Pixel Drive and Seamless Integration Helps You Create Immersive, Color-rich 4K Environments



Black Models



White Models

* Lens sold separately.



PT-RCQ10 Series		
	PT-RCQ10L	PT-RCQ75L
Light Output	10,000 lm* ¹	7,500 lm* ¹
Resolution	4K-equivalent*	

* With 4K Smooth Pixel Drive ON.

• Richly Detailed 4K Images

4K Smooth Pixel Drive shifts pixels diagonally to achieve 4K-equivalent on-screen resolution, while New Rich Colour Harmonizer heightens colour-reproduction for vivid expression.

• Seamless Integration with SLOT NX and Full Lens Lineup

Supports optional SLOT NX interface boards and 4K signal input for easy integration in diverse applications. Compatible with Panasonic's 1-Chip DLP™ lens lineup, flexibility is extended with the addition of the new ET-DLE020 ultra short-throw lens.

• Excellent Reliability in Tough Conditions

Further improvements to Panasonic's unique SOLID SHINE Laser cooling system achieve 20,000 hours*² of maintenance-free operation, all from the same compact body-size as our 1-Chip DLP™ WUXGA laser models.

Specifications (Tentative)

Model	PT-RCQ10L	PT-RCQ75L
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 × 1200) pixels
Light source	Laser diodes	
Light output*1	10,000 lm	7,500 lm
Time until light output declines to 50 %*2	20,000 hours (NORMAL) / 24,000 hours (ECO)	
Resolution	4K-equivalent (4K Smooth Pixel Drive: ON)	
Contrast ratio*1	10,000:1 (Full On/Full Off, Dynamic Contrast Mode: ON)	
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-DLE035, 16:10 aspect ratio	
Center-to-corner zone ratio*1	90 %	
Lens	Optional lenses	
Lens shift*3	Vertical (from center of screen)	+50 %, -16 % (+40 %, -16 % with ET-DLE060) (powered)
	Horizontal (from center of screen)	+30 %, -10 % (+19 %, -10 % with ET-DLE060 / +28 %, -10 % with ET-DLE105/ET-DLE085) (powered)
Keystone correction range	Vertical: ±40° (±16° with ET-DLE060, ±22° with ET-DLE105/ET-DLE085/DLE055, +5° with ET-DLE035), Horizontal: ±15° (±10° with ET-DLE060) (cannot be operated with ET-DLE035)	
	Vertical: ±45° (±16° with ET-DLE060, ±40° with ET-DLE150/DLE250/ET-DLE170, ±22° with ET-DLE105/ET-DLE085/DLE055), Horizontal: ±40° (±10° with ET-DLE060, ±15° with ET-DLE105/ET-DLE085/DLE055), When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55°.	
Keystone correction range with optional ET-UK20 Upgrade Kit		
Installation	Ceiling/floor, front/rear, free 360-degree installation	
Terminals	SDI IN	BNC x 1; 3G/HD-SDI input
	HDMI IN	HDMI 19-pin x 1 (Deep Color, compatible with HDCP 2.2)
	DVI-D IN	DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)
	MULTI PROJECTOR SYNC IN	BNC x 1
	MULTI PROJECTOR 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
	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)
	LAN	RJ-45 x 1 for network connection, 10Base-T/100Base-TX, compliant with PjLink™ (Class 2), Art-Net
	DIGITAL LINK/LAN	RJ-45 x 1 for network, DIGITAL LINK connection (HDBaseT™ compliant), 100Base-TX, compatible with Art-Net, PjLink™ (Class 2), Deep Color, HDCP 2.2
	USB	USB Connector (Type A) x 1 for Cloning/Wireless Module (output 5 V/500 mA)
	Expansion Slot	SLOT for interface boards, SLOT NX compatible
	Power supply	AC 100–240 V, 50/60 Hz
Power consumption	1,200 W	TBD
Cabinet materials	Molded plastic	
Operation noise*1	TBD	TBD
Dimensions (W × H × D)	498 x 200*4 x 538 mm (19 19/32" x 7 7/8" *4 x 21 3/16") (without lens)	
Weight*5	23.8 kg (52.5 lbs)	
Operating environment	Operating temperature: 0–45 °C (32–113 °F)*6, operating humidity: 10–80 % (no condensation)	
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Geometry Manager Pro, 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 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, NORMAL Mode, Dynamic Contrast [ON], under conditions with 35 °C (95 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m³ of particulate matter. Estimated time until light output declines to 50 % varies depending on environment. *3 Lens shift is not supported on the ET-DLE055, and the optical axis is fixed with the ET-DLE035. *4 With legs at shortest position. *5 Average value. May differ depending on the actual unit. *6 When using the projector at an altitude lower than 2,700 m (8,858 ft) above sea level, and the operating environment temperature becomes 30 °C (86 °F) or higher, the light output may be reduced to protect the projector. When using the projector at an altitude between 2,700 m (8,858 ft) and 4,200 m (13,780 ft), and the operating environment temperature becomes 25 °C (77 °F) or higher, the light output may be reduced to protect the projector.

Optional Accessories

<ul style="list-style-type: none"> Fixed-Focus Lens ET-DLE035 (0.380:1) / ET-DLE055 (0.785:1) Zoom Lens ET-DLE020* (0.28-0.30:1) / ET-DLE060 (0.600-0.801:1) / ET-DLE085 (0.782-0.977:1) / ET-DLE105 (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) * Available from October 2019. Note: With WUXGA resolution. Value depends on resolution. 	<ul style="list-style-type: none"> Ceiling Mount Bracket ET-PKD130H (6-axis, for high ceiling) ET-PKD120H (for high ceiling) ET-PKD120S (for low ceiling) Projector Mount Bracket ET-PKD130B Interface Board for 12G-SDI Input ET-MDN12G10 Interface Board for HDMI® (HDCP 2.2) Input ET-MDNHM10 	<ul style="list-style-type: none"> Interface Board for DVI Input ET-MDNDV10 Interface Board for 3G-SDI Input TY-TBN03G Interface Board for DisplayPort™ ET-MDNDP10 Wireless Module AJ-WM50 Note: Product availability may vary by country or region. The suffix at the end of the model number is omitted. 	<ul style="list-style-type: none"> DIGITAL LINK Switcher ET-YFB200G Note: ET-YFB200G is not compatible with 4K signals. Digital Interface Box ET-YFB100G Note: ET-YFB100G is not compatible with 4K signals. Geometry Manager Pro Software Upgrade Kit ET-UJK20 	<ul style="list-style-type: none"> 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: https://panasonic.net/cns/projector/download/application/
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SOLID SHINE LCD Boosts Image Brightness While Reducing Your Workload, Delivering an Effortless Learning Experience



White Models



Black Models

* Lens sold separately.



PT-MZ16K Series			
	PT-MZ16KL	PT-MZ13KL	PT-MZ10KL
Light Output	16,000 lm	13,000 lm	10,000 lm
Resolution	WUXGA		

• Pure Colour, High Brightness, and Long-Life Operation

At up to 16,000 lm*¹, colour erupts in WUXGA. Radiant pictures are achieved with new 15.4 mm (1") LCD panels, Triple Laser Engine, and refined cooling system.

• Unbeatable Reliability in the Real-World Conditions

To quickly fix problems while maintaining image display, the projectors feature Panasonic's new Triple Laser Engine with failover circuitry, a secondary backup signal input, and Information Monitor to show error information.

• Compact, Flexible, and Ready for a Stress-free Install

Easy-to-handle compact body weighs under 22.3 kg*² (49.2 lbs.), runs at just 38 dB*³, and suits seven optional zoom lenses for flexible installation. Setup is expedited with Geo Pro software*⁴.

Specifications (Tentative)

Model	PT-MZ16KL	PT-MZ13KL	PT-MZ10KL
Projector type	LCD projectors		
LCD panel	Panel size	25.4 mm (1.0 in) diagonal (16:10 aspect ratio)	
	Display method	Transparent LCD panel (x 3, R/G/B)	
	Drive method	Active matrix method	
	Pixels	2,304,000 (1920 x 1200) pixels x 3, total of 6,912,000 pixels	
Light source	Laser diodes		
Light output*1	16,000 lm	13,000 lm	10,000 lm
Time until light output declines to 50 %*2	20,000 hours (NORMAL)/24,000 hours (ECO)		
Resolution	1920 x 1200 pixels		
Contrast ratio*1	3,000,000:1 (Full On/Full Off)		
Screen size [diagonal]	1.78–25.4 m (70–1,000 in), 16:10 aspect ratio		
Center-to-corner zone ratio*1	90 %		
Lens	Optional powered zoom lenses		
Lens shift	Vertical: TBD, Horizontal: TBD		
Keystone correction range	Vertical: ±40°, Horizontal: ±15°		
Keystone correction range with optional ET-UK20 Upgrade Kit	Vertical: ±40°, Horizontal: ±40°		
Installation	Ceiling/floor, front/rear, free 360-degree installation		
Terminals	SDI IN	BNC x 1; 3G/HD/SD-SDI input	
	HDMI IN	HDMI 19-pin x 1 (Compatible with HDCP, Deep Color)	
	DVI-D IN	DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)	
	RGB IN	D-sub HD 15-pin (female) x 1 (RGB/YPbPr/YCbCr)	
	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	M3 x 1 for wired remote control	
	REMOTE 1 OUT	M3 stereo mini-jack x 1	
	REMOTE 2 IN	D-sub 9-pin (female) x 1 for external control (parallel)	
	DIGITAL LINK/LAN	RJ-45 x 1 for network and DIGITAL LINK connection (HDBaseT™ compliant), 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net, HDCP, Deep Color)	
	LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net)	
	USB	USB Connector (Type A) x 1 (Output 5 W/2 A)	
	Power supply	AC 100–240 V, 50/60 Hz	
Power consumption	TBD		
Cabinet materials	Molded plastic		
Filter	Included (Estimated maintenance time: approx. 20,000 hours)		
Operation noise*1	38 dB/TBD/TBD (NORMAL/ECO/QUIET) (TBD)	35 dB/TBD/TBD (NORMAL/ECO/QUIET) (TBD)	35 dB/TBD/TBD (NORMAL/ECO/QUIET) (TBD)
Dimensions (W × H × D)	650 x 185*3 x 440 mm (25 19/32" x 7 9/32"*3 x 17 5/16") (Without lens) (Not including protruding parts)		
Weight*4	Approx. 22.3 kg (49.2 lbs) (TBD)		
Operating environment	Operating temperature: 0–45 °C (32–113 °F)*5; Operating humidity: 10–80 % (no condensation)		
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro, 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 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, NORMAL Mode, Dynamic Contrast [2], under conditions with 30 °C (86 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m³ of particulate matter. Estimated time until light output declines to 50 % varies depending on environment. *3 With legs at shortest position. *4 Average value. May differ depending on the actual unit. *5 Light output is limited at operating temperatures higher than 30 °C (86 °F), and projectors cannot be operated at altitudes higher than 2,700 m (8,858 ft) above sea level.

Optional Accessories

- **Zoom Lens**
ET-EMW200 (0.48-0.55) / ET-EMW300 (0.55-0.69) / ET-EMW400 (0.69-0.95) / ET-EMW500 (0.95-1.35) / ET-EMS600 (1.35-2.11) / ET-EMT700 (2.11-4.14) / ET-EMT800 (4.14-7.44)
- **Ceiling Mount Bracket**
ET-PKD120H (for high ceilings) / ET-PKD120S (for low ceilings) / ET-PKD130H (TBD)
- **Replacement Filter**
ET-RMF100
- **Attachment for Ceiling Mount Bracket**
ET-PKE301B
- **DIGITAL LINK Switcher**
ET-YFB200G
- **Digital Interface Box**
ET-YFB100G
- **Geometry Manager Pro Software Upgrade Kit**
ET-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: <https://panasonic.net/cns/projector/download/application/>*

PT-LRZ35 Series

1-Chip DLP™ Projectors

AVAILABLE FROM AUTUMN 2019

Panasonic's First Pure LED Projectors Share Mobile Media in Brilliant Colour to Small Groups in Meeting, Learning, and Collaborative Spaces



PT-LRZ35 Series		
	PT-LRZ35	PT-LRW35
Light Output	3,500 lm*1	
Resolution	WUXGA	WXGA

• Captivating Colour with Discrete R/G/B LED Light-Sources

Discrete R/G/B LEDs reproduce colour with radiant fidelity, translating brilliant pictures to compact rooms or open spaces in work or learning environments where small groups collaborate. A phosphor- and colour-wheel-free design further enhances picture quality.

• Mobile Connection Now a Stress-free Experience

HDMI-MHL™ offers seamless interoperability between mobile devices and the projectors with easy HD screen-mirroring to encourage people of all technical literacies to participate. HDMI-CEC enables Auto Power On while the projectors include convenient instant on/off.

• Legendary Panasonic Reliability with 20,000-hour*2 Operation

Single-chip DLP™ technology supports a filterless design with sealed optical unit and dust-resistant cabinet. Expect years of low-maintenance operation for the whole projector.

Specifications (Tentative)

Model	PT-LRZ35	PT-LRW35
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	LED	
Light output*1	3,500 lm	
Time until light output declines to 50 %*2	20,000 hours (NORMAL)	
Resolution	1920 x 1200 pixels	1280 x 800 pixels
Contrast ratio*1	30,000:1 (Full On/Full Off) (TBD)	
Screen size [diagonal]	0.76–7.62 m (30–300 in), 16:10 aspect ratio	
Center-to-corner zone ratio*1	90 %	
Lens	1.3 x Manual Zoom (Throw ratio: 1.28-1.67:1)	
Lens shift	Vertical: +10 %, 0 % (Manual)	
Keystone correction range	Vertical: ±30 %	
Installation	Ceiling/floor, front/rear, free 360-degree installation	
Terminals	HDMI 1 IN	HDMI 19-pin x 1 (Compatible with HDCP, Deep Color) MHL™, CEC supported
	HDMI 2 IN	HDMI 19-pin x 1 (Compatible with HDCP, Deep Color) CEC supported
	RGB 1 IN	D-sub 15-pin (female) x 1 (RGB/YPbPr/YCbCr)
	RGB 2 IN	D-sub 15-pin (female) x 1 (RGB/YPbPr/YCbCr)
	MONITOR OUT	D-sub 15-pin (female) x 1
	AUDIO 1 IN	M3 stereo mini-jack x 1
	AUDIO 2 IN	M3 stereo mini-jack x 1
	VARIABLE AUDIO OUT	M3 stereo mini-jack x 1
	SERIAL IN	D-sub 9-pin (female) x 1 for computer control (RS232C compliant)
	LAN	RJ-45 x 1 for network control, 10Base-T, 100Base-T, 100Base-TX, compatible with PJ Link™ (Class 2)
	USB	USB Connector (Type A) x 1 (Output 5 V/2 A)
Power supply	AC 100–240 V, 50/60 Hz	
Power consumption	TBD	
Built-in speaker	10 W monaural	
Cabinet materials	Molded plastic	
Operation noise*1	36 dB (TBD)/TBD/TBD (NORMAL/ECO/QUIET)	
Dimensions (W × H × D)	375 x 117*3 x 287 mm (14 3/4" x 4 5/8" x 11 5/16") (Without lens, not including protruding parts)	
Weight*4	Approx. 6.5 kg (14.3 lbs) (TBD)	
Operating environment	Operating temperature: 0–40 °C (32–104 °F)*5; Operating humidity: 10–80 % (no condensation)	
Applicable software	Multi Monitoring & Control Software, Early 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 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, Normal Mode, Dynamic Mode under conditions with 30 °C (86 °F), 1,400 m above sea level, and 0.15mg/m³ of particulate matter. Estimated time until light output declines to 50 % varies depending on environment. *3 With legs at shortest position. *4 Average value. May differ depending on the actual unit. *5 When using the projector at an altitude lower than 1,400 m (4,593 ft) above sea level, and the operating environment temperature becomes 40 °C (104 °F) or higher, the light output may be reduced to protect the projector. When using the projector at an altitude between 1,400 m (4,593 ft) and 2,700 m (8,858 ft), and the operating environment temperature becomes 35 °C (95 °F) or higher, the light output may be reduced to protect the projector. When using the projector at an altitude higher than 2,700 m (8,858 ft) above sea level, the product will not be covered under warranty.

Optional Accessories

- **High-Ceiling Mount Bracket**
ET-PKL100H
- **Low-Ceiling Mount Bracket**
ET-PKL100S
- **Attachment for Ceiling Mount Bracket**
ET-PKV400B
- **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: <https://panasonic.net/cns/projector/download/application/>

ET-D3LEU100

Ultra-Short-Throw Lens for 3-Chip DLP™ Projectors

ET-D3LEW200

Short-Throw Zoom Lens for 3-Chip DLP™ Projectors

AVAILABLE FROM AUGUST 2019

Zero-Offset Ultra-Short and Short-Throw Lenses Deliver Big Pictures in Limited Spaces



Specifications (Tentative)

	ET-D3LEU100	ET-D3LEW200
Lens type	Ultra-Short-Throw Lens	Short-Throw Zoom Lens
F value	2.5	
Focal length	(f) 8.0 mm	(f) 13.8–18.1 mm
Screen size	200–600 inches	
Throw ratio	4K+ 0.37:1	0.70–0.91:1
	WUXGA 0.40:1	0.65–0.85:1
	SXGA+ 0.37:1	0.71–0.92:1
Lens-shift*1	Vertical ±70 %	±56 %
	Horizontal +30 % – -27 %	±19 %
Zoom	No	Yes
Dimensions (W×H×D)	275 × 154 × 430 mm (10 ¹³ / ₁₆ × 6 ¹ / ₁₆ × 16 ¹⁵ / ₁₆)	250 × 193 × 496 mm (9 ²⁷ / ₃₂ × 7 ¹⁹ / ₃₂ × 19 ¹⁷ / ₃₂)
Weight	Approx. 8.0 kg (17.64 lbs)	Approx. 9.0 kg (19.84 lbs)
Compatible projectors	RQ32K/RZ31K Series/RQ22K/RZ21K Series/RQ13K/RZ12K Series/DZ21K2 Series/DZ21K Series/DZ16K/DZ13K Series*2	RQ32K/RZ31K Series*3/RQ22K/RZ21K Series

• Minimize Throw Distance, Increase Flexibility

Project in tight spaces from very short throw-distances. With zero offset capability, these two lens options widen the versatility of Panasonic's 3-Chip DLP™ lineup.

• Wide-Range Adjustment After Projector Installation

Powered Vertical and Horizontal lens-shift provides wide-range adjustment after projector installation, saving time and effort. ET-D3LEW200 further enhances flexibility with powered optical zoom.

• Lens Design Delivers an Unobstructed View

L-shaped design gives the audience a clear and unobstructed view of the image in low-ceiling installations.

ET-DLE020

Ultra-Short-Throw Zoom Lens for 1-Chip DLP™ Projectors

AVAILABLE FROM OCTOBER 2019

The World's First*¹ Ultra-Short-Throw Lens with Powered Optical Zoom



Specifications (Tentative)

	ET-DLE020
Lens type	Ultra-Short-Throw Zoom Lens
F value	2.0
Focal length	(f) 4.1–4.4 mm
Screen size	100–400 inches
Throw ratio	WUXGA 0.28–0.30:1
	WXGA 0.29–0.32:1
	XGA 0.29–0.31:1
Lens-shift* ²	Vertical: +50 % – -16 % Horizontal: +23 % – -10 %
Zoom	Yes
Dimensions (W×H×D)	170 × 170 × 389 mm (6 11/16" × 6 11/16" × 15 5/16")
Weight	Approx. 3.2 kg (7.05 lbs)
Compatible projectors	All Panasonic 1-Chip DLP™ laser projectors* ³

• *The Pinnacle of 1-Chip DLP™ Ultra-Short-Throw Flexibility*

Harness the vast potential of the world's first*¹ ultra-short-throw lens with powered optical zoom. Combine ultra-short throw-distance with flexible zoom to project in extremely tight spaces.

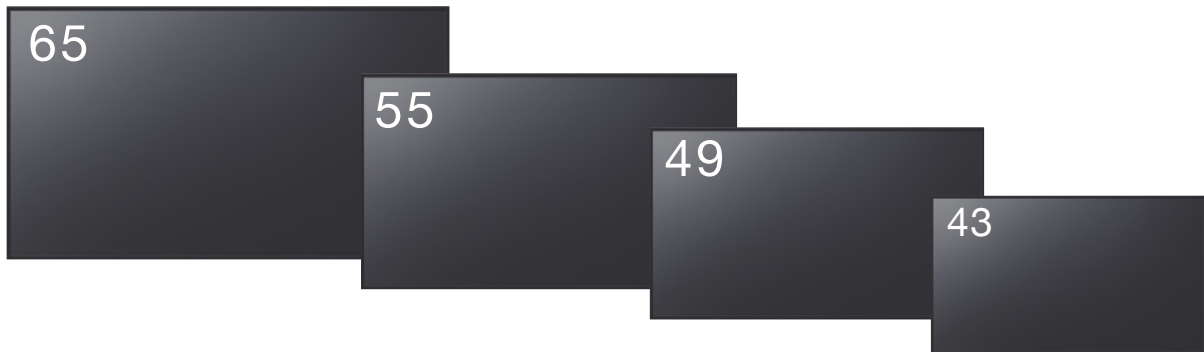
• *Wide-range Image Adjustment in Four Directions*

Powered +50 % – -16 % (Vertical) and +23 % – -10 % (Horizontal) lens-shift enables wide-range calibration following projector installation.

• *Minimizes Screen Shadowing*

Ultra-short-throw design diminishes on-screen shadows from presenters or people passing in front of the screen.

Stylish Designs Combine Powerful Function and Performance for Various Commercial Applications



SQ1 Series				
	TH-65SQ1	TH-55SQ1	TH-49SQ1	TH-43SQ1
Screen Size	65-inch	55-inch	49-inch	43-inch
Brightness	500 cd/m ²			
Contrast	1100:1			1000:1
LCD Panel	IPS			
Resolution	4K (3840 x 2160)			

• **Brilliant 4K picture quality**

Stunning Panasonic 4K quality, further supporting HDR and BT.2020 emulation. With a wide viewing angle and Anti-glare panels, an excellent choice for meeting rooms and signage applications where images are viewed up close.

• **Wide Expandability**

Equipped with the new Intel® SDM specification slot standard, SQ1 Series can be combined with the interface board for simple but wide system interoperability.

• **Superb Reliability**

Features a professional grade IPS panel, for efficiency and high reliability for continuous 24/7 Operation.

Specifications (Tentative)

Model	TH-65SQ1	TH-55SQ1	TH-49SQ1	TH-43SQ1	
Display Panel	Panel size	64.5-inch (1638.9 mm)	54.6-inch (1387.8 mm)	48.5-inch (1232.0 mm)	
	Panel type / Backlight	IPS/Edge LED			
	Aspect ratio	16:9			
	Effective display area (W x H)	1428.4 mm x 803.5 mm (56.23" x 31.63")	1209.6 x 680.4 mm (47.62" x 26.78")	1073.8 x 604.0 mm (42.27" x 23.77")	941.1 x 529.4 mm (37.05" x 20.84") (TBD)
	Resolution	3840 x 2160			
	Brightness (typ.)	500 cd/m ²			
	Contrast ratio (typ.)	1100:1			1000:1
	Response time (typ.)	8.0 ms (G to G)			
	Viewing angle [(T/B)/(L/R)]	178° / 178° (CR≥10)			
	Panel Surface Treatment	Anti-Glare (Haze 28 %)			
	Terminals	HDMI In	TYPE A Connector x 2		
DisplayPort In		DisplayPort x 1			
DisplayPort Out		DisplayPort x 1			
DVI-D/Audio In (L/R)		DVI-D 24-pin x 1/Stereo Mini Jack (M3) x 2 (Shared with PC In)			
PC In/Audio In (L/R)		Mini D-sub 15-pin x 1 (Female)/Stereo Mini Jack (M3) x 2 (Shared with DVI-D In)			
Serial		D-sub 9-pin x 1 RS232C Compatible			
IR In/Out		Stereo Mini Jack (M3) x 1/x 1			
Audio Out		30 W (15 W + 15 W) 10% THD			
LAN		RJ45 x 1, 10 BASE-T / 100 BASE-TX, Compatible with PLink™			
DIGITAL LINK		RJ45 x 1, 100 BASE-TX, Compatible with long reach mode and PLink™			
Slot		Intel® SDM specification Corresponding size SDM-S / SDM-L			
USB		USB Connector (TYPE-A) x 2, DC 5 V/2 A, DC 5V/1A (USB 3.0 Supported)			
Built-in speaker		TBD	TBD	TBD	TBD
Power requirements		110-127 V AC, 50/60 Hz			
Power consumption	TBD	TBD	TBD	TBD	
Power off condition	TBD	TBD	TBD	TBD	
Standby condition	TBD	TBD	TBD	TBD	
Dimensions (W x H x D) <i>* The handle part included.</i>	1458 x 836 x 74 mm (57.40" x 32.90" x 2.91")	1240 x 714 x 74 mm (48.82" x 28.09" x 2.88")	1104 x 637 x 73 mm (43.48" x 25.08" x 2.88")	TBD	
Weight	TBD	TBD	TBD	TBD	
Bezel width	11.7 mm (0.46") (T), 15.3 mm (0.6") (B), 12.2 mm (0.48") (L/R)	12.2 mm (0.48") (T), 15.8 mm (0.62") (B), 12.7 mm (0.50") (L/R)	14.2 mm (0.56") (T/B), 12.9 mm (0.51") (L/R)	TBD	
Wall-hanging pitch	400 x 400 mm (15.8" x 15.8") VESA compliant				
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

- **Pedestal**
TY-ST55PE9 (for 65", 55")
TY-ST43PE9 (for 49")
- **Early Warning Software¹**
ET-SWA100/105 Series²
**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**
TY-VUK10
- **Video Wall Manager Ver.1.10 or later required.**

Software (free)

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

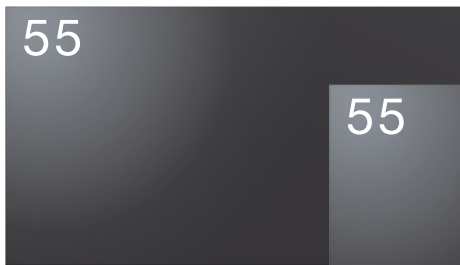
VF/LFV Series

VIDEO WALL LCD DISPLAYS

LFV9 AVAILABLE FROM AUTUMN 2019

VF Series AVAILABLE FROM EARLY 2020

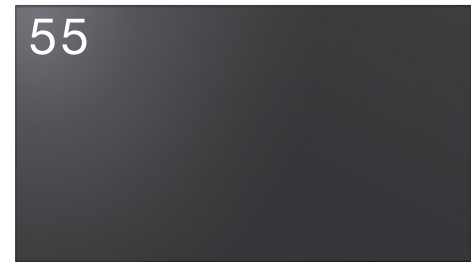
The VF/LFV Series Delivers Seamless, Multi-screen Displays for Dynamic, Large-Screen Use



TH-55VF2



TH-55VF2H



TH-55LFV9



* VF2H/VF2 Series only

* VF2H/VF2 Series only

* LFV9 Series only

VF/LFV Series			
	TH-55VF2H	TH-55VF2	TH-55LFV9
Screen Size	55-inch	55-inch	55-inch
Brightness	700 cd/m ²	500 cd/m ²	500 cd/m ²
Contrast	1100:1		1200:1
LCD Panel	IPS		
Resolution	1920 x 1080		

• Ideal Picture Quality

Seamless displays with the world's thinnest bezel dimension of 0.88 mm (TH-55VF2H/55VF2 only).

Excellent visibility on multiple screens with high-grade panels.

• Easy Configuration

Designed to reduce installation time, labor and maintenance.

Dot-by-dot display of 4K images in 2 x 2 configuration.

• High Reliability

Highly durable components, 24-hour continuous operation, failover and failback functions.

Specifications (Tentative)

Model	TH-55VF2H	TH-55VF2	TH-55LFV9	
Display Panel	Panel size	54.6-inch (1387.8 mm)	54.6-inch (1387.8 mm)	
	Panel type / Backlight	IPS/Direct LED		
	Aspect ratio	16:9		
	Effective display area (W x H)	1209.6 x 680.3 mm (47.62" x 26.78")		1209.6 x 680.4 mm (47.62" x 26.78")
	Resolution	1920 x 1080		
	Brightness (typ.)	700 cd/m ²	500 cd/m ²	500 cd/m ²
	Contrast ratio (typ.)	1100:1		1200:1
	Response time (typ.)	8.0 ms		
	Viewing angle [(T/B)/(L/R)]	178° / 178° (CR≥10)		
	Panel Surface Treatment	Advanced Anti-Glare (Haze 28 %)		
Terminals	HDMI In	Type A Connector x 1	Type A Connector x 2	
	VIDEO In	-	BNC x 1 (Shared with Component In)	
	Component In	-	BNC x 1 set (Shared with VIDEO In)	
	DisplayPort In	DisplayPort x 1		
	DisplayPort Out	-	DisplayPort x 1	
	DVI-D In	DVI-D 24-pin x2	DVI-D 24-pin x 1	
	PC In	Mini D-sub 15-pin x 1 (Female)		
	DVI-I Out	-	DVI-I 29-pin x 1	
	Serial In/Out	D-sub 9-pin x 1/x 1	2.5 mm Phone Jack x 1/ x 1	
	IR In/Out	Stereo Mini Jack (M3) x 1/ x 1	2.5 mm Phone Jack x 1/ x 1	
	Audio In 1	Stereo Mini Jack (M3) x 1, 0.5 V [rms]	Pin Jack (L+R) x 1 set (Shared with COMPONENT/VIDEO In) 0.5 V [rms]	
	Audio In 2	Pin Jack x 1 set, 0.5 V [rms]	Stereo Mini Jack (M3) x 1 (Shared with PC/DVI-D In) 0.5 V [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 In/Out	RJ45 x 1/ x 1, 100 BASE-TX, Compatible with PjLink™ (Shared with DIGITAL LINK)		RJ45 x 1/ -, 10 BASE-T / 100 BASE-TX, Compatible with PjLink™
	DIGITAL LINK In/Out	RJ45 x 1/ x 1, 100 BASE-TX, Compatible with long reach mode and PjLink™ (Shared with LAN)		-
USB	USB Connector (TYPE-A) x 1, DC 5V/500mA (USB2.0)			
Power requirements	110-127 V AC, 50/60 Hz			
Power consumption	TBD	TBD	TBD	
Power off condition	0 W		0 W	
Standby condition	Approx. 0.5 W		Approx. 0.5 W	
Dimensions (W × H × D)	1210.6 x 681.3 x TBD mm (47.66" x 26.82" x TBD)	1210.6 x 681.3 x TBD mm (47.66" x 26.82" x TBD)	1213.4 x 684.2 x TBD mm (47.78" x 26.94" x TBD)	
Weight	TBD		TBD	
Bezel width	0.44 mm (0.017") (T/B/L/R)	0.44 mm (0.017") (T/B/L/R)	2.25mm (0.089") (L/T) 1.25mm (0.049") (R/B)	
Wall-hanging pitch	400 x 400 mm (15.8" x 15.8") VESA compliant			
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

- **Installation Mount**
TBD

- **Early Warning Software¹**

ET-SWA100/105 Series²

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**

TY-VUK10

• Video Wall Manager Ver.1.10 or later required.

Software (free)

- **Content Management Software (Ver.3.0 or later)**

* Windows® only.

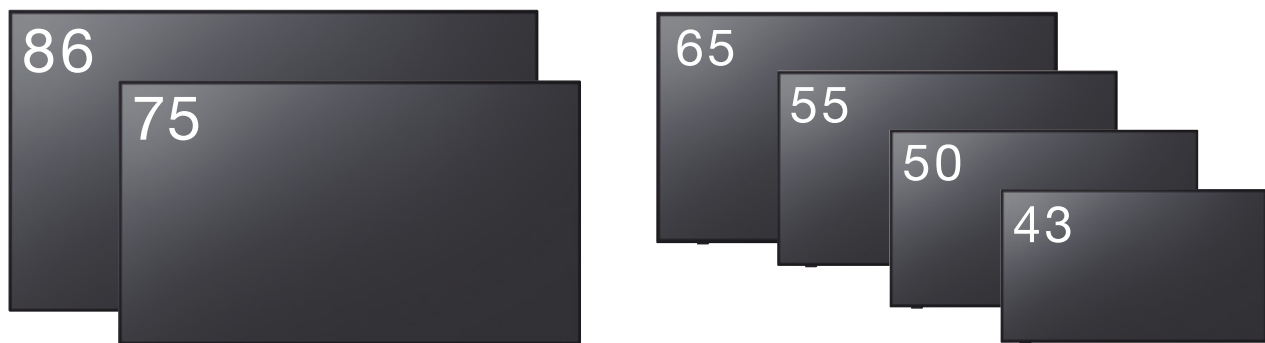
- **Multi Monitoring & Control Software (Ver.2.1)**

* Windows® only.

- **Video Wall Manager**

New 4K UHD Commercial Grade Entry Displays That Flexibly Match Business Situations

Join the Lineup



CQ1 Series						
	TH-86CQ1	TH-75CQ1	TH-65CQ1	TH-55CQ1	TH-50CQ1	TH-43CQ1
Screen Size	86-inch	75-inch	65-inch	55-inch	50-inch	43-inch
Brightness	400 cd/m ²					
Contrast	1200:1		3000:1	4000:1		
LCD Panel	IPS		VA			
Resolution	4K (3840 x 2160)					

• Detailed Images

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

• Useful Functions for Business

Supports HDMI CEC to control connected devices from a single remote, and RS-232C/LAN to control multiple devices externally, for efficient operation. Designed for continuous, secure 16-hour daily operation.

Specifications (Tentative)

Model	TH-86CQ1	TH-75CQ1	TH-65CQ1	TH-55CQ1	TH-50CQ1	TH-43CQ1	
Display Panel	Panel size	85.7-inch (2177.4 mm)	74.7-inch (1898.6 mm)	64.5-inch (1638.9 mm)	54.6-inch (1387.8 mm)	49.5-inch (1257 mm)	42.5-inch (1079.8 mm)
	Panel type / Backlight	IPS/Edge LED			VA/Direct LED		
	Aspect ratio	16:9					
	Effective display area (W x H)	1897.6 x 1068.6 mm (74.70" x 42.00")	1654.1 x 932.1 mm (65.12" x 36.69")	1428.4 x 803.5 mm (56.24" x 31.63")	1209.6 x 680.4 mm (47.62" x 26.79")	1095.8 x 616.4 mm (43.14" x 24.27")	941.1 x 529.4 mm (37.05" x 20.84")
	Resolution	3840 x 2160					
	Brightness (typ.)	400 cd/m ²					
	Contrast ratio (typ.)	1200:1		3000:1	4000:1		
	Response time (typ.)	8.0 ms					
	Viewing angle [(T/B)/(L/R)]	178° / 178° (CR>10)					
	Panel Surface Treatment	Anti-GlareType (Haze 2 %)					
Terminals	HDMI In	TYPE A Connector x 2					
	PC In/Audio In (L/R)	Mini D-sub 15-pin x 1 (Female)/Stereo Mini Jack (M3) x 1					
	Serial	D-sub 9-pin x 1 RS232C Compatible					
	Audio Out	Pin Jack x 1					
	LAN	RJ45 x 1, 10 BASE-T / 100 BASE-TX					
	USB	USB Connector (TYPE-A) x 1, DC 5V/1A (USB 2.0 Supported)			USB Connector (TYPE-A) x 1, DC 5V/0.5A (USB 2.0 Supported)		
	RF In (Antenna/Cable)	F Connector x 1					
Built-in speaker	20W [10 W + 10 W]						
Power requirements	110-127 V AC, 50/60 Hz						
Power consumption	Approx. 320 W (TBD)	TBD	TBD	148 W	138 W	124 W	
Power off condition	Approx. 0.3 W (TBD)	Approx. 0.3 W (TBD)	Approx. 0.3 W (TBD)	Approx. 0.3 W	Approx. 0.3 W	Approx. 0.3 W	
Standby condition	Approx. 0.5 W (TBD)	Approx. 0.5 W (TBD)	Approx. 0.5 W (TBD)	Approx. 0.5 W	Approx. 0.5 W	Approx. 0.5 W	
Dimensions (W × H × D)	1929 x 1103 x 79 mm (76.0" x 43.4" x 3.2") (TBD)	1684 x 969 x 94 mm (66.3" x 38.2" x 3.7") (TBD)	1463 x 847 x 97 mm (57.6" x 33.4" x 3.9") (TBD)	1240 x 718 x 80 mm (48.9" x 28.3" x 3.2")	1124 x 653 x 77 mm (44.3" x 25.7" x 3.1")	969 x 566 x 77 mm (38.2" x 22.3" x 3.1")	
Weight	TBD	TBD	TBD	15.0 kg (33.1 lbs.)	13.0 kg (28.7 lbs.)	9.0 kg (19.9 lbs.)	
Bezel width	15.3 mm (0.61") (T/B/L/R)	14.9 mm (0.59") (T/L/R) 18.4 mm (0.73") (B)	15.9 mm (0.63") (T/L/R) 19.9 mm (0.78") (B)	11.9 mm (0.47") (T/L/R) 14.7 mm (0.58") (B)	11.9 mm (0.47") (T/L/R) 14.4 mm (0.57") (B)	11.9 mm (0.47") (T/L/R) 14.9 mm (0.59") (B)	
Wall-hanging pitch	600 x 400 mm (23.6" x 15.8") VESA compliant	400 x 400 mm (15.8" x 15.8") VESA compliant	400 x 200 mm (15.8" x 7.9") VESA compliant	200 x 200 mm (7.9" x 7.9") VESA compliant			
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)						

* Including remote controller sensor box.

SB01 Series

Supports Intel® SDM standard function expansion slots.
Wireless Presentation System

AVAILABLE FROM JANUARY 2020

Availability varies depending on model

A Wireless Connection Between the Display and PC Provides Smart Presentations



TY-SB01WP



TY-SB01WPB



• Smart Design

The wireless receiver attaches to slots on the rear of the display to form a single unit. No cable connection is needed between the PC and display and there are no space limitations.

• Easy to Use

No need to install software. Casting onto the PC screen and switching presenters are done by a simple button operation.

• High Image Quality

Full-HD images are transmitted by wireless operation. Compliant with IEEE 802.11ac standards. Video content can also be smoothly displayed.

Model No.	TY-SB01WP	TY-SB01WPB
Model Name	Wireless Presentation System	
	Receiver (Functional Board)	Transmitter
Resolution (Max)	Full HD	
Wi-Fi	IEEE 802.11ac	
SL0T type (Display)	Intel® SDM S-type	-
Terminal	-	HDMI x1, USB Type A x1
Registered no. of Transmitters	16 units	
No. of Simultaneous Connections	1 unit	
Audio Transmission	Yes	
Dimensions (W x H x D)	TBD	TBD
Weight	TBD	TBD
Compatible Displays	SQ1 Series* (As of June)	

*possible with FHD output

MEMO

MEMO

MEMO

Panasonic

BUSINESS

