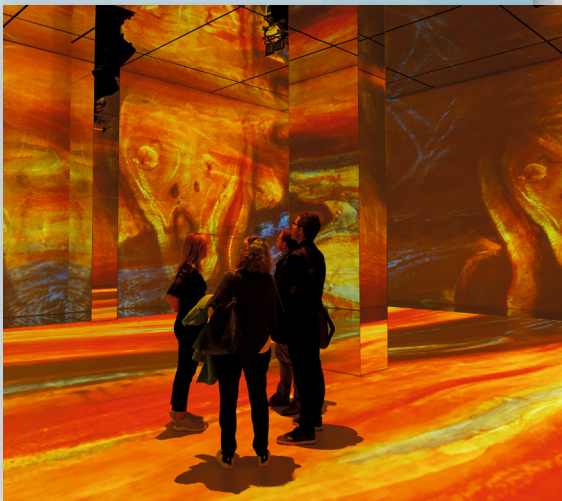


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VISUAL SOLUTIONS NEW PRODUCTS

Preliminary Brochure 2023

Preliminary Brochure

January 2023



Projectors

PT-REQ12 Series
1-Chip DLP™ Projectors

PT-MZ20K Series
LCD Projectors

PT-REZ12 Series
1-Chip DLP™ Projectors

PT-CMZ50
LCD Projector

Professional Displays

SQ2H Series
4K UHD Displays

CQE2 Series
4K UHD Displays

SQE2 Series
4K UHD Displays

EQ2-PCAP Series
4K UHD Touch Screen Displays

PT-REQ12 Series
1-Chip DLP™ Projectors

AVAILABLE FROM CY2023 Q2

Note: Release date varies depending on country or region.

Expand Production Possibilities and
Revolutionize Workflow with Next-Generation
1-Chip DLP™ 4K Projectors



Black Models



White Models



[Preliminary Specification] PT-REQ12 Series

	PT-REQ12	PT-REQ10	PT-REQ80
Light Output	12,000 lm ²	10,000 lm ²	8,000 lm ²
Resolution	4K (3840 x 2400) ³		

Note: Specifications are tentative. Ships with ET-C15600 lens included.

• **Dynamic Visuals Take Production to New Heights**

REQ12 Series is among the first 1-Chip DLP™ projectors to feature Quad Pixel Drive, our 2-axis pixel-quadrupling technology, to create deep, smooth, and detailed 4K images. It supports 240 Hz⁴ projection and works with our optional real-time tracking projection-mapping system. Evolved Dynamic Contrast includes new scene-recognition circuitry to make the difference between black, white, and contrasting colors stand out dramatically and bring your content to life.

• **Effortless Workflow, Improved Expandability**

REQ12 Series responds to complex productions with expanded functions, interfaces, and options that streamline workflow. New lens lineup improves native contrast, adds powered peripheral focus⁵, and expands lens-shift range. Intel® SDM-specified slot integrates proprietary or third-party⁶ function boards to adapt and scale connectivity. You can import custom test patterns⁷, use NFC function⁸ to prep for network connection without AC power, and save time with preactivated upgrade kits for Geo Pro⁹ software.

• **New Cabinet Design for Maintenance-Free Operation**

REQ12 Series is the first 1-Chip DLP™ projector to feature an hermetically sealed optical block with all-liquid cooling, enabling 20,000 hours¹⁰ of maintenance-free projection. To prevent interruptions, Backup Input¹¹ switches to a secondary signal without screen-blanking if the primary is disrupted, while Multi Laser Drive Engine prevents brightness loss in the unlikely event of diode failure.

Specifications (Tentative)

Model		PT-REQ12	PT-REQ10	PT-REQ80
Projector type		1-Chip DLP™ projectors		
DLP™ chip	Panel size	0.8 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 diode		
Light output ^{1,2}		12,000 lm	10,000 lm	8,000 lm
Time until light output declines to 50 % ³		20,000 hours (NORMAL/QUIET), 24,000 hours (ECO)		
Resolution		4K (3840 x 2400 pixels) (Quad Pixel Drive: ON)		
Contrast ratio ¹		20,000:1 (Full On/Full Off, Dynamic Contrast [3]) (TBD)		
Screen size (diagonal)		70–700 inches (with supplied lens)		
Center-to-corner zone ratio ¹		90 %		
Lens		Powered zoom (throw ratio 1.36–2.19:1 for supplied lens), powered focus (optional lenses also available)		
Lens shift (From the origin point of the lens mounter)	Vertical	±60 % (with supplied lens)		
	Horizontal	±29 % (with supplied lens)		
Keystone correction range		Vertical: ±40 °, Horizontal: ±40 ° (with supplied lens)		
Installation		Ceiling/floor, front/rear, free 360-degree installation		
Terminals	HDMI™ 1/2 IN	HDMI™ x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input)		
	DisplayPort™	DisplayPort™ x 1 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input)		
	MULTI SYNC IN	BNC x 1		
	MULTI 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 (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, PLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible		
	USB	USB connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module/USB memory		
	DC OUT	USB Type A x 1 (for power supply, DC 5 V, 2 A)		
	Expansion slot	Open slot for for function boards, Intel® SDM compatible		
Protocol versions		IPv4, IPv6 ⁴		
Power supply		AC 100–240 V, 50/60 Hz		
Power consumption ⁵	Maximum power consumption	1,050 W (10.7–4.5 A) (1,070 VA) (TBD)	980 W (10–4.2 A) (1,000 VA) (TBD)	760 W (7.7–3.2 A) (770 VA) (TBD)
	On-mode power consumption (Operating mode)	NORMAL 900 W (TBD)	830 W (TBD)	600 W (TBD)
		ECO 700 W (TBD)	640 W (TBD)	475 W (TBD)
		QUIET 890 W (TBD)	630 W (TBD)	470 W (TBD)
Cabinet materials		Molded plastic		
Operation noise ¹		39 dB (NORMAL/ECO), 35 dB (QUIET)	37 dB (NORMAL/ECO), 33 dB (QUIET)	35 dB (NORMAL/ECO), 32 dB (QUIET)
Dimensions (W x H x D)		498 x 212 x 538 mm (19 5/8" x 8 11/32" x 21 3/16") (with feet at shortest position, not including protruding parts)		
Weight ⁶		28.8 kg (63.49 lbs) with supplied lens (TBD)		
Operating environment		Operating temperature: 0–45 °C (32–113 °F) ⁷ , operating humidity: 10–80 % (no condensation)		
Applicable software		Logo Transfer Software, Multi Monitoring & Control Software, Projector Network Setup Software, Real-Time Tracking Projection-Mapping System, Early Warning Software, Geometry Manager Pro, Smart Projector Control for iOS/Android ⁸		
Control function via LAN		Crestron Connected™ V2, Crestron XiO Cloud™, Art-Net DMX, AMX® DD, and PLink™ (Class 2)		

¹ Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. ² When [PICTURE MODE] is set to [DYNAMIC] and [OPERATING MODE] is set to [NORMAL]. ³ Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, NORMAL Mode, Dynamic Contrast [3], temperature 35 °C (95 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of airborne particulate matter. Estimated time until light output declines to 50 % varies depending on environment. ⁴ Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. ⁵ Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft). ⁶ Average value. May differ depending on the actual unit. ⁷ When optional AJ-WM50 Series wireless module is attached, operating temperature range becomes 0–40 °C (32–104 °F). The operating environment temperature should be between 0 °C (32 °F) and 40 °C (104 °F) if the projector is used at an altitude between 1,400 m (4,593 ft) and 4,200 m (13,780 ft).

Optional Accessories

- **Zoom Lens**
ET-C1U100 (0.308–0.330:1)¹ / ET-C1W300 (0.550–0.690)² / ET-C1W400 (0.680–0.950:1)³ / ET-C1W500 (0.940–1.39:1)³ / ET-C1S600 (1.36–2.10:1)² / ET-C1T700 (2.07–3.38:1)³
Note: Lenses are equipped with Auto Lens Identification Function. ET-C1S600 is equivalent of supplied lens.
¹ Estimated for release in CY2023 Q4. ² Estimated for release in CY2023 Q2. ³ Estimated for release in CY2023 Q3.
 - **Ceiling Mount Bracket**
ET-PKD120H (for high ceilings)
ET-PKD120S (for low ceilings)
ET-PKD130H (with 6-axis adjustment mechanism)
Note: ET-PKD120H/PKD120S/PKD130H used in combination with ET-PKD130B (sold separately).
- **Function Boards**
12G-SDI Terminal Board
TY-SB01QS
Wireless Presentation System Receiver Board
TY-SB01WP
DIGITAL LINK Terminal Board
TY-SB01DL
 - **Attachment for Ceiling Mount Bracket**
ET-PKD130B
- **Wireless Module**
AJ-WM50 Series
Note: Availability may vary by country or region. The suffix at the end of the model number is omitted. Operating temperature: 0–40 °C (32–104 °F).
 - **DIGITAL LINK Switcher / Digital Interface Box**
ET-YFB200G / ET-YFB100G
Note: ET-YFB200G/YFB100G is not compatible with 4K signals.
 - **Wireless Presentation System PressIT**
TY-WPS1 (Basic set)
Note: Availability may vary by country or region.
- **NFC Upgrade Kit**
ET-NUK10
Note: Availability may vary by country or region.
 - **Real-Time Tracking Projection-Mapping System**
ET-SWR10
Note: Availability may vary by country or region. Visit <https://panasonic.net/cns/projector/products/swr10> for more information.
 - **Early Warning Software**
ET-SWA100 Series
Note: Part number suffix may differ depending on the license type.

¹ Only when optional TY-SB01DL DIGITAL LINK Terminal Board is loaded. ² Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. ³ With Quad Pixel Drive [ON]. ⁴ Supports input signals up to 1080p. Display frame rate corresponds to the input signal frame rate. ⁵ Function supported on selected lenses only. ⁶ Third-party Intel® SDM-specified function boards sold separately. Panasonic cannot guarantee operation of third-party devices. ⁷ Supports PNG (1/8/16/24/32/48/64-bit, non-transparent, alpha blending disabled) and BMP (1/8/24-bit) formats with maximum resolution of 3840 x 2400 dots. ⁸ Projectors sold in some countries or regions require an ET-NUK10 Upgrade Kit available from PASS to activate NFC function. See NFC Regional Compatibility List for details. ⁹ Visit PASS to register your projector and download free Geometry Manager Pro software. ¹⁰ Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, NORMAL Mode, Dynamic Contrast [3], temperature 35 °C (95 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of airborne particulate matter. Panasonic recommends checkup at point of purchase after about 20,000 hours. Light-source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period. Estimated maintenance time varies depending on environment. ¹¹ Primary and backup terminal assignment is fixed. Input signals to primary and backup inputs must be identical.

PT-REZ12 Series
1-Chip DLP™ Projectors

AVAILABLE FROM CY2023 Q3

Note: Release date varies depending on country or region.

Evolved 1-Chip DLP™ Projectors with
Powerful Contrast Transform Your Experience
with a Smooth, Frictionless Workflow



Black Models



White Models



[Preliminary Specification] PT-REZ12 Series			
	PT-REZ12	PT-REZ10	PT-REZ80
Light Output	12,000 lm ³	10,000 lm ³	8,000 lm ³
Resolution	WUXGA (1920 x 1200)		

Note: Specifications are tentative. Ships with ET-C15600 lens included.

• **High-Contrast Visuals Deepen Engagement**

The refined REZ12 Series 1-Chip DLP™ laser projector features Evolved Dynamic Contrast with new scene-recognition circuitry for powerful contrast performance. In addition, improved black-level adjustment ensures seamless projection, while Rich Color Enhancer expands red color expression for more vibrant colors.

• **Flexibility and Expandability for Timesaving Workflow**

Simplify complex workflows with expanded interfaces, functions, and options. Adapt projection to different applications and environments with new lenses featuring powered peripheral focus⁴, wider lens-shift, and enhanced native contrast. Expand and scale connectivity with proprietary or third-party⁵ Intel® SDM-specified function boards, import your own test patterns⁶, prep for setup without AC power via NFC function⁷, and save time with preactivated upgrade kits for Geo Pro⁸.

• **All-New Compact Body Supports Maintenance-free Projection**

REZ12 Series equips an hermetically sealed optical block and all-liquid cooling sourced from our 3-Chip DLP™ platform, enabling 20,000 hours⁹ of maintenance-free operation. Backup Input¹⁰ prevents screen-blanking by instantly switching to a secondary signal if the primary is disrupted, and high brightness is maintained if a diode fails thanks to Multi-Laser Drive Engine failovers.

Specifications (Tentative)

Model		PT-REZ12	PT-REZ10	PT-REZ80
Projector type		1-Chip DLP™ projectors		
DLP™ chip	Panel size	0.8 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 diode		
Light output ^{1,2}		12,000 lm	10,000 lm	8,000 lm
Time until light output declines to 50 % ³		20,000 hours (NORMAL/QUIET), 24,000 hours (ECO)		
Resolution		WUXGA (1920 x 1200 pixels)		
Contrast ratio ¹		20,000:1 (Full On/Full Off, Dynamic Contrast [3]) (TBD)		
Screen size (diagonal)		70–700 inches (with supplied lens)		
Center-to-corner zone ratio ¹		90 %		
Lens		Powered zoom (throw ratio 1.36–2.19:1 for supplied lens), powered focus (optional lenses also available)		
Lens shift (From the origin point of the lens mounter)	Vertical	±60 % (with supplied lens)		
	Horizontal	±29 % (with supplied lens)		
Keystone correction range		Vertical: ±40 °, Horizontal: ±40 ° (with supplied lens)		
Installation		Ceiling/floor, front/rear, free 360-degree installation		
Terminals	HDMI™ 1/2 IN	HDMI™ x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input ⁴)		
	DisplayPort™	DisplayPort™ x 1 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input ⁴)		
	MULTI SYNC IN	BNC x 1		
	MULTI 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 (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, PLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible		
	USB	USB connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module/USB memory		
	DC OUT	USB Type A x 1 (for power supply, DC 5 V, 2 A)		
	Expansion slot	Open slot for function boards, Intel® SDM compatible		
Protocol versions		IPv4, IPv6 ⁵		
Power supply		AC 100–240 V, 50/60 Hz		
Power consumption ⁶	Maximum power consumption	1,050 W (10.7–4.5 A) (1,070 VA) (TBD)	980 W (10–4.2 A) (1,000 VA) (TBD)	760 W (7.7–3.2 A) (770 VA) (TBD)
	On-mode power consumption (Operating mode)	NORMAL 900 W (TBD)	830 W (TBD)	600 W (TBD)
		ECO 700 W (TBD)	640 W (TBD)	475 W (TBD)
		QUIET 890 W (TBD)	630 W (TBD)	470 W (TBD)
Cabinet materials		Molded plastic		
Operation noise ¹		39 dB (NORMAL/ECO), 35 dB (QUIET)	37 dB (NORMAL/ECO), 33 dB (QUIET)	35 dB (NORMAL/ECO), 32 dB (QUIET)
Dimensions (W x H x D)		498 x 212 x 538 mm (19 5/8" x 8 11/32" x 21 3/16") (with feet at shortest position, not including protruding parts)		
Weight ⁷		28.8 kg (63.49 lbs) with supplied lens (TBD)		
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, Projector Network Setup Software, Early Warning Software, Geometry Manager Pro, Smart Projector Control for iOS/Android ⁹		
Control function via LAN		Crestron Connected™ V2, Crestron XiO Cloud™, Art-Net DMX, AMX® DD, and PLink™ (Class 2)		

¹ Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. ² When [PICTURE MODE] is set to [DYNAMIC] and [OPERATING MODE] is set to [NORMAL]. ³ Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, NORMAL Mode, Dynamic Contrast [3], temperature 35 °C (95 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of airborne particulate matter. Estimated time until light output declines to 50 % varies depending on environment. ⁴ 4K signals are converted to WUXGA (1920 x 1200 pixels). ⁵ Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. ⁶ Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft). ⁷ Average value. May differ depending on the actual unit. ⁸ When optional AI-WM50 Series wireless module is attached, operating temperature range becomes 0–40 °C (32–104 °F). The operating environment temperature should be between 0 °C (32 °F) and 40 °C (104 °F) if the projector is used at an altitude between 1,400 m (4,593 ft) and 4,200 m (13,780 ft).

Optional Accessories

- **Zoom Lens**
ET-C1U100 (0.308–0.330:1)¹ / ET-C1W300 (0.550–0.690)² / ET-C1W400 (0.680–0.950:1)³ / ET-C1W500 (0.940–1.39:1)³ / ET-C1S600 (1.36–2.10:1)² / ET-C1T700 (2.07–3.38:1)³
Note: Lenses are equipped with Auto Lens Identification Function. ET-C1S600 is equivalent of supplied lens.
¹ Estimated for release in CY2023 Q4. ² Estimated for release in CY2023 Q2. ³ Estimated for release in CY2023 Q3.
- **Function Boards**
12G-SDI Terminal Board
TY-SB01QS
Wireless Presentation System Receiver Board
TY-SB01WP
DIGITAL LINK Terminal Board
TY-SB01DL
- **Attachment for Ceiling Mount Bracket**
ET-PKD130B
- **Wireless Module**
AJ-WM50 Series
Note: Availability may vary by country or region. The suffix at the end of the model number is omitted. Operating temperature: 0–40 °C (32–104 °F).
- **DIGITAL LINK Switcher / Digital Interface Box**
ET-YFB200G / ET-YFB100G
Note: ET-YFB200G/YFB100G is not compatible with 4K signals.
- **Wireless Presentation System PressIT**
TY-WPS1 (Basic set)
Note: Availability may vary by country or region.
- **NFC Upgrade Kit**
ET-NUK10
Note: Availability may vary by country or region.
- **Early Warning Software**
ET-SWA100 Series
Note: Part number suffix may differ depending on the license type.

¹ Input signals are converted to the projector's display resolution upon playback. YPaPr 4:2:0 format only for 4K/60p signals input via DIGITAL LINK. ² Only when optional TY-SB01DL DIGITAL LINK Terminal Board is loaded. ³ Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. ⁴ Function supported on selected lenses only. ⁵ Third-party Intel® SDM-specified function boards sold separately. Panasonic cannot guarantee operation of third-party devices. ⁶ Supports PNG (1/8/16/24/32/48/64-bit, non-transparent, alpha blending disabled) and BMP (1/8/24-bit) formats with maximum resolution of 1920 x 1200 dots. ⁷ Projectors sold in some countries or regions require an ET-NUK10 Upgrade Kit available from PASS to activate NFC function. See NFC Regional Compatibility List for details. ⁸ Visit PASS to register your projector and download free Geometry Manager Pro software. ⁹ Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, NORMAL Mode, Dynamic Contrast [3], temperature 35 °C (95 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of airborne particulate matter. Panasonic recommends checkup at point of purchase after about 20,000 hours. Light-source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period. Estimated maintenance time varies depending on environment. ¹⁰ Primary and backup terminal assignment is fixed. Input signals to primary and backup inputs must be identical.

PT-MZ20K Series
LCD Projectors

AVAILABLE FROM CY2023 Q1

Note: Release date varies depending on country or region. PT-MZ20KL available from CY2023 Q2.

The World's Smallest, Lightest,
and Quietest 20,000 lm¹ Projector

¹ Light output of PT-MZ20KL. As of November 2022, based on publicly available dimensions, weight, and operation noise values for LCD laser projectors with 20,000 lm brightness and above. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped.



White Models



Black Models



[Specifications] PT-MZ20K Series				
	PT-MZ20KL	PT-MZ17KL	PT-MZ14KL	PT-MZ11KL
Light Output	20,000 lm ³	16,500 lm ³	14,000 lm ³	11,000 lm ³
Resolution	WUXGA (1920 x 1200 pixels, 16:10)			

Note: Projectors ship without a lens.

• **World's Smallest, Lightest, and Quietest 20,000 lm¹ LCD Projector**

Meet the smallest, lightest, and quietest LCD laser projector in its class with up to 20,000 lm¹, compact 23 kg⁴ (50.7 lbs) body, and quiet 42 dB⁵ operation. Optimized optical engine delivers 25% more brightness than the 16,000 lm³ PT-MZ16KL from the same body size, ensuring clear visibility in well-lit spaces.

• **Long-Life Energy-Saving Design Minimizes Problems**

Multi-Laser Drive Engine and Backup Input⁶ enable continuous projection even in the event of trouble, and no light-source or filter maintenance is required for 20,000 hours⁷. The series efficiently delivers high brightness with MZ20KL achieving the lowest power consumption in its class⁸ for sustainable operation.

• **Delivering up to 20,000 lm³ on AC 100–240 V, a World First⁹**

PT-MZ20K Series is the industry's first⁹ 20,000 lm-class projector to deliver full brightness on AC 100–240 V power, eliminating need to install a high-voltage power supply. It supports NFC function¹⁰, optional lenses including ET-EMU100 Ultra-Short-Throw Zoom Lens, and preactivated upgrade kits for Geo Pro¹¹.

Specifications

Model	PT-MZ20KL		PT-MZ17KL	PT-MZ14KL	PT-MZ11KL
Projector type	LCD projector				
LCD Panel	Size	25.4 mm (1.0 in) diagonal (16:10 aspect ratio)			
	Display system	Transparent LCD panel (x 3, R/G/B)			
	Drive method	Active matrix method			
	Pixels	2,304,000 (1920 x 1200 pixels)			
Light source	Laser diode				
Light output ^{1,2}	20,000 lm		16,500 lm	14,000 lm	11,000 lm
Time until light output declines to 50 % ³	20,000 hours (NORMAL/QUIET)				
Resolution	WUXGA (1920 x 1200 pixels)				
Contrast ratio ¹	3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] set to [3].)				
Screen size (diagonal)	2.03–15.24 m (80–600 in), 2.54–10.16 m (100–400 in) with ET-EMU100, 16:10 aspect ratio		2.03–15.24 m (80–600 in), 2.54–10.16 m (100–400 in) with ET-EMU100, 2.03–12.70 m (80–500 in) with ET-EMT800 ⁴ , 16:10 aspect ratio		
Center-to-corner zone ratio ¹	85 %				
Lens	Optional (no lens included with this model)				
Lens shift (from center of screen)	Vertical	±60 % (±50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)			
	Horizontal	±20 % (±19 % with ET-EMW200) (powered)			
Keystone correction range	Vertical: ±45 ° (±5 ° with ET-EMU100, ±14 ° with ET-EMW200/ET-EMW300, ±22 ° with ET-EMW400/ET-EMW500), Horizontal: ±40 ° (±0 ° with ET-EMU100, ±8 ° with ET-EMW200/ET-EMW300, ±15 ° with ET-EMW400/ET-EMW500). 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	SDI IN	BNC x 1: 3G/HD-SDI input			
	HDMI IN	HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input ⁵), CEC supported			
	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 (RS-232C compliant)			
	REMOTE 1 IN	D-sub 9-pin (female) x 1 for external control (parallel)			
	REMOTE 2 IN	M3 x 1 for wired remote control			
	REMOTE 2 OUT	M3 x 1 for link control (for wired remote control)			
	DIGITAL LINK	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBaseT™ compliant), 100Base-TX (Compatible with PLink™ [Class 2], Art-Net, HDCP 2.3, Deep Color, 4K/60p signal input ⁵)			
	LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PLink™ [Class 2], Art-Net)			
	DC OUT	USB connector (Type A) x 1 for power supply (Output: 5 V / 2 A)			
	USB	USB connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module, for USB memory			
Power supply	AC 100–240 V, 50/60 Hz				
Power consumption ⁶	Maximum power consumption	1100 W (11.2–4.6 A) (1120 VA)	950 W (9.6–4.0 A) (960 VA)	800 W (8.1–3.3 A) (810 VA)	615 W (6.3–2.7 A) (630 VA)
	On-mode power consumption (Operating mode)	[NORMAL] 1050 W (AC 100–120 V), 1000 W (AC 200–240 V)	880 W (AC 100–120 V), 850 W (AC 200–240 V)	720 W (AC 100–120 V), 690 W (AC 200–240 V)	540 W (AC 100–120 V), 520 W (AC 200–240 V)
	[QUIET]	630 W (AC 100–120 V), 610 W (AC 200–240 V)	580 W (AC 100–120 V), 560 W (AC 200–240 V)	460 W (AC 100–120 V), 445 W (AC 200–240 V)	360 W (AC 100–120 V), 340 W (AC 200–240 V)
Cabinet materials	Molded plastic				
Filter	Included (Estimated maintenance time: approx. 20,000 hours ⁷)				
Operation noise ¹	42 dB (NORMAL), 36 dB (QUIET)		38 dB (NORMAL), 32 dB (QUIET)		35 dB (NORMAL), 30 dB (QUIET)
Dimensions (W x H x D)	650 x 185 x 440 mm (25 19/32" x 7 9/32" x 17 5/16") (excluding feet and protrusions), 650 x 211 x 440 mm (25 19/32" x 8 5/16" x 17 5/16") (excluding protrusions, with feet at shortest position)				
Weight ⁸	Approx. 23.0 kg (50.7 lbs)		Approx. 22.5 kg (49.6 lbs)		
Operating environment	Operating temperature: 0–45 °C (32–113 °F) ⁹ , operating humidity: 10–80 % (no condensation)				
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro, Projector Network Setup Software, Smart Projector Control for iOS/Android ¹⁰				

¹ Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. ² When [OPERATING MODE] is set to [NORMAL]. This is the value when the Zoom Lens (Model No.: ET-EMS650) is used. The value varies depending on the lens. ³ Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, NORMAL Mode, [DYNAMIC CONTRAST] set to [3], 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 decreases to 50 % will vary depending on environment. ⁴ ET-EMT800 is compatible with PT-MZ17KL/MZ14KL/MZ11KL only. It cannot be used with PT-MZ20KL. ⁵ 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. 4K/60p and 4K/50p signals input via DIGITAL LINK are supported in YpPr 4:2:0 format only. ⁶ Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft). ⁷ Under conditions of 0.15 mg/m³ of particulate matter. Estimated maintenance time varies depending on environment. Filter can be washed and reused up to two times. ⁸ Average value. May differ depending on the actual unit. ⁹ Note that the projector cannot be used at altitudes 2,700 m (8,858 ft) or higher above sea level. In the following operating environments, light output may be reduced to protect the projector: when the projector is used at altitudes below 1,400 m (4,593 ft) and ambient temperature is 35 °C (95 °F) or higher; when the projector is used at altitudes between 1,400 m (4,593 ft) and 2,700 m (8,858 ft) exclusive and ambient temperature is 30 °C (86 °F) or higher. The operating environment temperature should be between 0 °C (32 °F) and 40 °C (104 °F) when the optional AJ-WM50 Series Wireless Module is attached.

Optional Accessories

- **Zoom Lens**
ET-EMU100 (0.330–0.353:1) / ET-EMW200 (0.480–0.550:1) / ET-EMW300 (0.550–0.690:1) / ET-EMW400 (0.690–0.950:1) / ET-EMW500 (0.950–1.36:1) / ET-EMS650 (1.35–2.10:1)¹ / ET-EMS600 (1.35–2.10:1)² / ET-EMT750 (2.10–4.14:1)³ / ET-EMT700 (2.10–4.14:1)³ / ET-EMT850 (4.14–7.40:1)³ / ET-EMT800 (4.14–7.40:1)³
¹ ET-EMS650, ET-EMT750, and ET-EMT850 will be available from CY2023 Q1. ² ET-EMS600, ET-EMT700, and ET-EMT800 are compatible with PT-MZ17KL/MZ14KL/MZ11KL only. They cannot be used with PT-MZ20KL.
- **Replacement Filter**
ET-RFM100
- **Ceiling Mount Bracket**
ET-PKD120H (for high ceilings) / ET-PKD120S (for low ceilings) / ET-PKD130H (with 6-axis adjustment mechanism)
Note: ET-PKD120H/PKD120S/PKD130H used in combination with ET-PKE301B (sold separately).
- **Attachment for Ceiling Mount Bracket**
ET-PKE301B
- **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.
- **NFC Upgrade Kit**
ET-NUK10
Note: Availability may vary by country or region.
- **Wireless Module**
AJ-WM50 Series
Note: Availability may vary by country or region. The suffix at the end of the model number is omitted. Operating temperature: 0–40 °C (32–104 °F).
- **Wireless Presentation System PressIT**
TY-WPS1 (basic set)
Note: Visit <https://panasonic.net/cns/prodisplays/pressit> for more information.
- **Early Warning Software**
ET-SWA100 Series
Note: Part number suffix may differ depending on the license type.

¹ Light output of PT-MZ20KL. As of November 2022, based on publicly available dimensions, weight, and operation noise values for LCD laser projectors with 20,000 lm brightness and above. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. ² Input signals are converted to the projector's display resolution upon playback. 4K/60p signals are supported via HDMI and DIGITAL LINK terminals. 4K/60p and 4K/50p signals input via DIGITAL LINK are supported in YpPr 4:2:0 format only. ³ Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. ⁴ For PT-MZ20KL, PT-MZ17KL/MZ14KL/MZ11KL: 22.5 kg (49.6 lbs). ⁵ PT-MZ20KL in NORMAL Mode. Noise levels of other models in NORMAL Mode are 38 dB for PT-MZ17KL and 35 dB for PT-MZ14KL/MZ11KL. ⁶ Primary Input (HDMI 1) and Backup Input (HDMI 2) terminal assignment is fixed. Input signals to primary and backup inputs must be identical. ⁷ Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE]: [DYNAMIC], [DYNAMIC CONTRAST] set to [3], temperature 30 °C [86 °F], elevation 700 m [2,297 ft] with 0.15 mg/m³ of particulate matter). Replacement of parts other than the light source may be required in a shorter period. Estimated time until light output declines to 50 % varies depending on environment. Filter cleaning cycle varies depending on environment. Filter can be washed and reused up to two times. ⁸ As of November 2022, based on publicly available power consumption values for LCD laser projectors with 20,000 lm brightness and above according to internal research. ⁹ As of November 2022, based on LCD laser projectors with 20,000 lm brightness and above according to internal research. ¹⁰ Projectors sold in some countries or regions require an ET-NUK10 Upgrade Kit available from PASS to activate NFC function. See NFC Regional Compatibility List for details. ¹¹ Geometry Manager Pro software for Windows® and preactivated upgrade kits require projector registration. Visit PASS to register your projector and download free software.

Laser Projector Delivers Big Pictures from Ultra-Short Distances with Minimal Shadowing, Easy Installation, and Convenient Adjustment



White Models



Black Models



	[Preliminary Specification] PT-CMZ50 LCD Projector
Light Output	5,200 lm ³ (TBD)
Resolution	WUXGA (1920 x 1200 pixels)

• Communicate Clearly and Comfortably

CMZ50 is an ultra-short-throw projector for well-lit hyflex learning and meeting spaces. It delivers an 80-inch image from about 1 cm (1/3 in.)⁴, avoiding shadows on screen. Laser light-source develops 5,200 lm³ (TBD) with 3,000,000:1⁵ Dynamic Contrast. Watts-per-lumen efficiency is about 25 %⁶ better than other lamp-based short-throw models, and no light-source or filter maintenance is required for 20,000 hours⁷.

• Flexible, Versatile, and Easy to Install

CMZ50 installs flexibly on ceiling or wall using optional mounts including ET-WBC100, a lightweight wall-mount system that ships partially preassembled for easy installation. Image adjustment is easily performed via remote control using Digital Zoom Extender and Image Shift⁸ function and powered focus. Stylish body and quiet 27 dB⁹ (TBD) operation blend CMZ50 into your space, limiting distractions.

• Fast and Frictionless UX

With widescreen content becoming popular, CMZ50 supports 2560 x 1080 (21:9)¹⁰ and 3240 x 1080 (27:9)¹⁰ input signals. An HDMI™ output is included to connect a second projector. Start work instantly: images appear about a second¹¹ after powering on, and CEC command-compatible¹² HDMI™ turns the projector on and displays automatically when content is played from a device. You can also share your screen via Wireless Presentation System PressIT² or wireless module².

Specifications (Tentative)

Model			PT-CMZ50
Projector type			LCD projector
LCD panel	Size		16.3 mm (0.64 in) diagonal (16:10 aspect ratio)
	Display system		Transparent LCD panel (x 3, R/G/B)
	Drive method		Active matrix
	Pixels		2,304,000 (1920 x 1200) pixels
Light source			Laser diodes
Light output ^{1,2}			5,200 lm (TBD)
Time until light output declines to 50 % ³			20,000 hours (NORMAL/QUIET)/24,000 hours (ECO)
Resolution			WUXGA (1920 x 1200 pixels)
Contrast ratio ¹			3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1].)
Screen size (diagonal)			2.03–3.05 m (80–120 in) (TBD), 16:10 aspect ratio
Center-to-corner zone ratio ¹			85 %
Lens			Fixed zoom, powered focus lens, F = 1.7, f = 2.81 mm, throw ratio: 0.235:1 (Projection distance: 1 cm [1/3 in] for 80-inch image)
Digital Zoom Extender ⁴			Throw ratio 0.235–0.288:1 ⁵ (Corresponding value)
Keystone correction range			Vertical: ±3°, Horizontal: ±3° (TBD)
Installation			Ceiling/floor, front/rear, free 360-degree installation
Terminals	HDMI™ 1/2 IN		HDMI™ 19-pin x 2 (Compatible with HDCP 1.4, Deep Color, 4K/30p ⁶ signal input), CEC supported ⁷
	HDMI™ OUT		HDMI™ 19-pin x 1 (Compatible with HDCP 1.4, Deep Color, 4K/30p ⁶ signal output)
	COMPUTER IN		D-sub 15-pin (female) x 1 (RGB/YPbPR/YCbCR)
	AUDIO 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 (RS-232C compliant)
	LAN/DIGITAL LINK		RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBase™ compliant), 100Base-TX (Compatible with PLink™ [Class 2], HDCP, Deep Color, 4K/30p ⁶ signal input)
	LAN		RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PLink™ [Class 2]
	USB (VIEWER/ WIRELESS/DC OUT)		USB connector (Type A) x 1 for Memory Viewer function, optional AJ-WM50 Series Wireless Module, power supply (DC 5 V, maximum 2 A)
Protocol versions			IPv4
Power supply			AC 100 V–240 V, 50/60 Hz
Power consumption ⁸	Maximum power consumption		350 W (TBD)
	On-mode power consumption (Light Power)	NORMAL	320 W (100–120 V) (TBD), 310 W (200–240 V) (TBD)
		ECO	230 W (100–120 V) (TBD), 220 W (200–240 V) (TBD)
		QUIET	225 W (100–120 V) (TBD), 215 W (200–240 V) (TBD)
Built-in speaker			10 W monaural
Cabinet materials			Molded plastic
Filter ⁹			Included (Estimated maintenance time: approx. 20,000 hours)
Operation noise ¹			36 dB (NORMAL/ECO) (TBD), 27 dB (QUIET) (TBD)
Dimensions (W x H x D)			495 mm x 160 mm x 421 mm (19 1/2" x 6 19/64" x 16 37/64") (TBD) (excluding feet and protrusions), 495 mm x 176 mm x 421 mm (19 1/2" x 6 15/16" x 16 37/64") (TBD) (with feet at shortest position)
Weight with supplied lens ¹⁰			Approx. 9.6 kg (21.2 lbs) (TBD)
Operating environment			Operating temperature: 0–45 °C (32–113 °F) ¹¹ , Operating humidity: 20–80 % (no condensation)
Applicable software			Multi Monitoring & Control Software, Logo Transfer Software, Projector Network Setup Software, Presenter Light Software for Windows ^{*12} , Wireless Projector App for iOS/Android ^{*13}
Control function via LAN			PLink™ [Class 2], Crestron Connected™, AMX Device Discovery

¹ Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. ² When [PICTURE MODE] is set to [DYNAMIC], [LIGHT POWER] is set to [NORMAL], [DAYLIGHT VIEW] is set to [OFF], and [AUTO POWER SAVE] is set to [OFF]. ³ Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE]: [DYNAMIC], [DYNAMIC CONTRAST] set to [2], temperature 30 °C (86 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of particulate matter). Estimated time until light output declines to 50 % varies depending on environment. ⁴ Resolution decreases when using Digital Zoom Extender. Some screen-correction functions are not available when using this function, and range of corner adjustment is limited. ⁵ When Digital Zoom Extender is set to 80 %. ⁶ 4K signals are converted to the projector's resolution upon projection. ⁷ Depending on the connected CEC command-compatible device, the link control may not operate normally. ⁸ Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft). ⁹ Filter cleaning cycle varies depending on environment. Filter can be washed and reused up to two times. Filter cleaning cycle: 20,000 hours (under dust conditions of 0.08 mg/m³), 10,000 hours (under dust conditions of 0.15 mg/m³). ¹⁰ Average value. May differ depending on the actual unit. ¹¹ 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. When optional AJ-WM50 Series wireless module is attached, operating temperature range becomes 0–40 °C (32–104 °F). ¹² When using Presenter Light Software, images are projected with 1280 x 800 dots or 1024 x 768 dots onto the screen. Also, your PC display resolution may be forcibly changed, and audio playback disrupted or become noisy, while images and sound are being transmitted. ¹³ When using the Wireless Projector app, display resolution differs depending on your iOS/Android™ device and the display device. The maximum supported display resolution is WUXGA (1280 x 800).

Optional Accessories

- **Ceiling Mount Bracket**
ET-PKD120H (for high ceilings) /
ET-PKD120S (for low ceilings) /
ET-PKD130H (with 6-axis adjustment mechanism)
Note: ET-PKD120H/PKD120S/PKD130H used in combination with ET-PKE301B (sold separately).
- **Attachment for Ceiling Mount Bracket**
ET-PKE301B

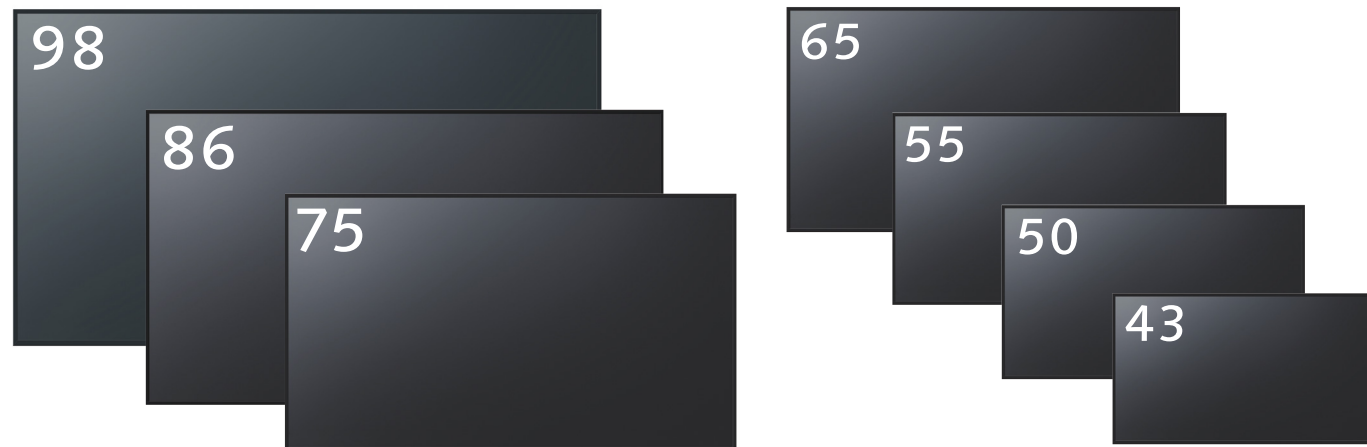
- **Wall Mount Bracket**
ET-WBC100
- **Replacement Filter Unit**
ET-RFV500
- **DIGITAL LINK Switcher**
ET-YFB200G
Note: ET-YFB200G is not compatible with 4K signals.

- **Digital Interface Box**
ET-YFB100G
Note: ET-YFB100G is not compatible with 4K signals.
- **Wireless Module**
AJ-WM50 Series
Note: Availability may vary by country or region. The suffix at the end of the model number is omitted. Operating temperature: 0–40 °C (32–104 °F).

- **Wireless Presentation System PressIT**
TY-WPS1 (basic set)
Note: Visit <https://panasonic.net/cns/prodisplays/pressit> for more information.
- **Early Warning Software**
ET-SWA100 Series
Note: Part number suffix may differ depending on the license type.

¹ Input signals are converted to the projector's resolution upon playback. YPbPr 4:2:0 format only for 4K/30p signals input via DIGITAL LINK. ² Optional accessories sold separately. Availability may vary by country or region. ³ When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. Measurement, measuring conditions, and method of notation are all compliant with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. ⁴ Value is the distance from front panel to screen. ⁵ Full On/Full Off, when [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1]. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. ⁶ Based on comparison between PT-CMZ50 (max. power consumption 350 W, brightness 5,200 lm (TBD)) and PT-TW381R (max. power consumption 300 W, brightness 3,300 lm). ⁷ Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE]: [DYNAMIC], [DYNAMIC CONTRAST] set to [2], temperature 30 °C (86 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of particulate matter). Estimated time until light output declines to 50 % varies depending on environment. Filter can be washed and reused up to two times. Filter cleaning cycle: 20,000 hours (under dust conditions of 0.08 mg/m³), 10,000 hours (under dust conditions of 0.15 mg/m³). ⁸ Resolution decreases when using Digital Zoom Extender and Image Shift. Some screen-correction functions are not available when using this function, and range of corner adjustment is limited. Image size is reduced to 80 % when Digital Image Shift is enabled. ⁹ Value TBD in QUIET Mode. 36 dB in NORMAL/ECO Mode (TBD). ¹⁰ A 2560 x 1080 (21:9) input signal is displayed at 1920 x 810 (21:9), and a 3240 x 1080 (27:9) input signal at 1920 x 640 (27:9). ¹¹ When [ECO MANAGEMENT] > [QUICK STARTUP] is set to [ON], [QUICK STARTUP] is unavailable after the [AVAILABLE PERIOD] setting has expired. When [QUICK STARTUP] is set to [ON], the projector continues to warm up, increasing power consumption, and the standby period when [QUICK STARTUP] is valid is included in projector runtime. [QUICK STARTUP] cannot be set when [STANDBY MODE] is set to [ECO]. May vary depending on connection terminals, signals, and other conditions. ¹² Depending on the connected CEC command-compatible device, the link control may not operate normally.

Standard 4K Displays Excelling in Brightness, Reliability, and System Scalability



Actual resolution: 3840 x 2160p

SQ2H Series							
	TH-98SQ2HW	TH-86SQ2HW	TH-75SQ2HW	TH-65SQ2HW	TH-55SQ2HW	TH-50SQ2HW	TH-43SQ2HW
Screen Size	98-inch class	86-inch class	75-inch class	65-inch class	55-inch class	50-inch class	43-inch class
Brightness	700 cd/m ²						
Panel Surface Treatment	Anti-glare (Haze 25 %)						
Resolution	4K (3840 x 2160)						
Operating Time	24 h/day						

• 4K high-brightness panel offering high image quality and high visibility

These ultra-high resolution 4K displays with a bright 700 cd/m² deliver strong visibility even in bright conditions. Their panels are designed to mitigate glare from light sources and ambient light, reducing reflections. Even next to a window, these displays can be effectively used to share information in a classroom or conference room setting, and are well-suited to in-store digital signage placed in well-lit areas.

• A lineup boasting reliability and flexible installation adapted to diverse use cases

The SQ2H Series comes in seven sizes—from 43 to 98 inches—with offerings for spaces of all sizes. They can easily be rotated to support vertical-oriented content, and can tilt forward and back for easier viewing angles. And, with constant 24-hour uptime, they offer peace of mind when running displays for long hours.

• System scalability to enable a wide range of system integration

The SQ2H Series is equipped with various interfaces including USB Type C, compatible with DP Alt mode and power delivery of up to 60 W. The Series also utilizes the Intel® Smart Display Module (Intel® SDM) specification slot standard. By combining PC boards or interface boards, the displays can be employed in a wider range of use cases. They are equipped with USB media player functionality to display 4K content and 20 W (10 W + 10 W) of built-in speakers, precluding the need for external speakers.

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

Model		TH-98SQ2HW	TH-86SQ2HW	TH-75SQ2HW	TH-65SQ2HW	TH-55SQ2HW	TH-50SQ2HW	TH-43SQ2HW
Display panel	Panel size	98-inch (2476.9 mm)	86-inch (2174.2 mm)	75-inch (1892.7 mm)	65-inch (1638.9 mm)	55-inch (1387.8 mm)	50-inch (1257.3 mm)	43-inch (1079.8 mm)
	Pixels (H x V)	3840 x 2160						
	Brightness (typ.)	700 cd/m ²						
	Contrast	1200:1	(TBD)			5000:1	4000:1	1200:1
	Viewing angle [(T/B)/(L/R)]	178°/178° (Typ.)	(TBD)	178°/178° (Typ.)				
	Panel surface treatment	Anti-glare treatment (Haze 25 %)						
Terminals	HDMI™ IN	HDMI™ x 3 (compatible with HDCP2.2)						
	PC IN	mini D-sub 15 pin						
	USB	USB Type A x 1 (DC 5V / Max. 1 A, USB 3.0 is supported), USB Type A x 1 (DC 5V / Max. 2 A, USB 2.0 is supported), USB Type C x 1 (Max 60 W Power Delivery compatible, USB2.0 is supported, DP Alt Mode compatible)						
	Serial IN	D-sub 9 pin RS-232C Compatible						
	IR IN/OUT	Stereo mini jack (ø3.5 mm) x 1/x 1						
	LAN	RJ45 x 1 compatible with PLink™ 10BASE-T/100BASE-TX						
	Slot	Intel® SDM standard SDM-S / SDM-L, 3.3 V / Max. 1.1 A, 12V / Max. 5.5 A						
	Audio IN	Stereo mini jack (ø3.5 mm) x 1						
	Audio OUT	Stereo mini jack (ø3.5 mm) x 1						
Operating time		24 h/day						
Portrait/Tilt setting		Yes / 20 degrees forward and backward with landscape/portrait setting (TBD)				Yes / 20 degrees forward and backward with landscape/portrait setting		
Built-in speaker		10 W x 2				8 W x 2		
Power consumption		(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)
Dimension (WxHxD)	Excluding handles	2193.4 x 1255.3 x 80 mm (86.36" x 49.43" x 3.15") (TBD)	1929 x 1100 x 70 mm (75.95" x 43.31" x 2.74") (TBD)	1684 x 962 x 70 mm (66.28" x 37.87" x 2.74") (TBD)	1463 x 838 x 69 mm (57.58" x 32.97" x 2.72") (TBD)	1242 x 713 x 66 mm (48.89" x 28.06" x 2.60") (TBD)	1129 x 649 x 66 mm (44.43" x 25.56" x 2.60") (TBD)	973 x 562 x 65 mm (38.31" x 22.10" x 2.56") (TBD)
	Including handles	(TBD)	1929 x 1100 x 96 mm (75.95" x 43.31" x 3.76") (TBD)	1684 x 962 x 96 mm (66.28" x 37.87" x 3.76") (TBD)	1463 x 838 x 94 mm (57.58" x 32.97" x 3.68") (TBD)			
Weight		(TBD)	50.7 kg/111.8 lbs (TBD)	37.3 kg/82.2 lbs (TBD)	29.7 kg/65.5 lbs (TBD)	18.4 kg/40.5 lbs (TBD)	15.8 kg/34.8 lbs (TBD)	11.9 kg/26.2 lbs (TBD)
Wall-hanging pitch		600 x 400 mm (VESA compliant) M8			400 x 400 mm (VESA compliant) M8	400 x 400 mm (VESA compliant) M6		200 x 200 mm (VESA compliant) M6

Optional Accessories

- **Wall hanging bracket¹**
TY-WK98PV1
(For 98/86/75/65-inch model)
- **12G-SDI Terminal Board**
TY-SB01QS
- **DIGITAL LINK Board**
TY-SB01DL
- **Pedestal**
TY-ST75PE9 (For 75/65-inch model)
TY-ST55PE9 (For 55-inch model)
TY-ST43PE9 (For 50/43-inch model)
- **Early Warning Software²**
ET-SWA100 series

¹: The availability varies depending on the country.
²: Suffix of the part number may differ depending on the license type.

Software

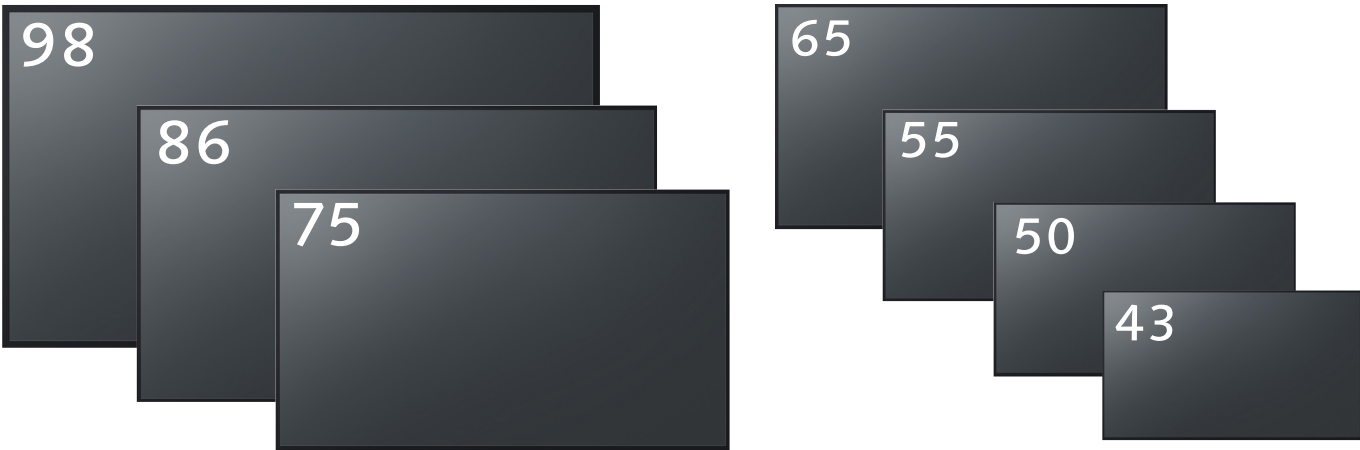
- **Multi Monitoring & Control Software**
- **Video Wall Manager**
- **Content Management Software**
- **Screen Transfer**

SQE2 Series
4K UHD Displays

AVAILABLE FROM CY2023 Q2

Note: release date varies depending on country or region and model

Versatile Lineup of Highly Reliable Displays in 4K Resolution
Ideal for Corporate Meeting Rooms/Educational and Signage Use



Actual resolution: 3840 x 2160p

SQE2 Series							
	TH-98SQE2W	TH-86SQE2W	TH-75SQE2W	TH-65SQE2W	TH-55SQE2W	TH-50SQE2W	TH-43SQE2W
Screen Size	98-inch class	86-inch class	75-inch class	65-inch class	55-inch class	50-inch class	43-inch class
Brightness	500 cd/m²						
Panel Surface Treatment	Anti-glare (Haze 25 %)	Anti-glare (Haze 28 %)	Anti-glare (Haze 25 %)				
Resolution	4K (3840 x 2160)						
Operating Time	24 h/day						

• High image quality and high legibility suitable for various scenes

Available in wide 7 sizes from 98-inch to 43-inch. The brightness of 500 cd/m² allows for clear video viewing in brightly lit conference rooms, classrooms and retail spaces. The SQE2 series has a high haze anti-glare surface treatment panel, which reduces reflection of ambient light and improves visibility.

• Superb reliability & Easy installation

A highly reliable model that supports vertical and tilting installation and 24 h/day continuous operation. Equipped with 4 HDMI™, Digital Out, USB-C (15 W), 3 USB-A, DisplayPort, and Intel® SDM specification slot standard. Further, SQE2 series equipped with the built-in speaker.

• Various external linkage suitable for conference room and signage applications

SQE2 series is equipped with Android™ OS and is compatible with HTML5 Browser for ease of use with digital signage. This series is also equipped with Wi-Fi function to wirelessly display images from a PC or Android™ device¹. Simultaneous control and batch management over a network are also possible via LAN.

1: Windows® 10 PC or Android device with wireless functionality. Operation is not guaranteed on all devices.

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

Model		TH-98SQE2W	TH-86SQE2W	TH-75SQE2W	TH-65SQE2W	TH-55SQE2W	TH-50SQE2W	TH-43SQE2W
Display panel	Panel size	98-inch (2476.9 mm)	86-inch (2174.2 mm)	75-inch (1892.7 mm)	65-inch (1638.9 mm)	55-inch (1387.8 mm)	50-inch (1257.3 mm)	43-inch (1079.8 mm)
	Pixels (H x V)	3840 x 2160						
	Brightness (typ.)	500 cd/m²						
	Contrast	1200:1	1100:1	1200:1	5000:1		1200:1	
	Viewing angle [(T/B)/(L/R)]	178°/178° (CR>10)						
Terminals	Panel surface treatment	Anti-glare (Haze 25 %)	Anti-glare (Haze 28 %)	Anti-glare (Haze 25 %)				
	HDMI™ IN	HDMI™ x 4 (compatible with HDCP2.2)						
	DIGITAL OUT	HDMI™ x 1 (compatible with HDCP2.2)						
	DisplayPort IN	DisplayPort x 1						
	USB	USB Type-A x 2, USB Type-A (Internal) x 1, USB Type-C (DC 5 V/Max. 3 A) x 1						
	microSD	microSDXC / MAX 1 TB						
	Serial IN	Stereo mini jack (ø3.5 mm) x 1, RS-232C Compatible						
	LAN	RJ45 x 1, 10BASE-T/100BASE-TX/1000BASE-T						
	IR IN	Stereo mini jack (ø3.5 mm) x 1						
	Slot	Intel® SDM standard						
	Wi-Fi	Yes (Dongle)			Yes (Built-in)			
Bluetooth®	Yes (Dongle)			Yes (Built-in)				
Audio OUT	Stereo mini jack (ø3.5 mm) x 1, SPDIF x 1							
Operating time	24 h/day							
Portrait / Tilt setting	Yes / 20 degrees forward and backward with landscape/portrait setting			Yes / 45 degrees forward and backward with landscape/portrait setting				
Built-in speaker	24 W			20 W			16 W	
Power consumption	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	
Dimension (WxHxD) (Excluding remote IR sensor)	2216 x 1271 x 99 mm (87.25" x 50.02" x 3.87")	1929 x 1100 x 81 mm (75.91" x 43.28" x 3.16")	1684 x 968 x 100 mm (66.28" x 38.09" x 3.92")	1456 x 835 x 96 mm (57.32" x 32.84" x 3.78")	1236 x 710 x 84 mm (48.64" x 27.92" x 3.28")	1121 x 646 x 83 mm (44.12" x 25.43" x 3.27")	964 x 555 x 83 mm (37.92" x 21.85" x 3.26")	
Dimension (WxHxD) (Including remote IR sensor)	2216 x 1288 x 99 mm (87.25" x 50.67" x 3.87")	1929 x 1116 x 81 mm (75.91" x 43.94" x 3.16")	1684 x 984 x 100 mm (66.28" x 38.74" x 3.92")	(TBD)	(TBD)	(TBD)	(TBD)	
Weight	99.8 kg/220.1 lbs	62.9 kg/138.7 lbs	37.4 kg/82.5 lbs	(TBD)	(TBD)	(TBD)	(TBD)	
Wall-hanging pitch	800 x 400 mm, M8	600 x 400 mm, M8	600 x 400 mm, M8	600 x 400 mm, M6	400 x 400 mm, M6	200 x 200 mm, M6		
HTML browser	HTML5 (Vwed)							
Android™-OS	Yes							

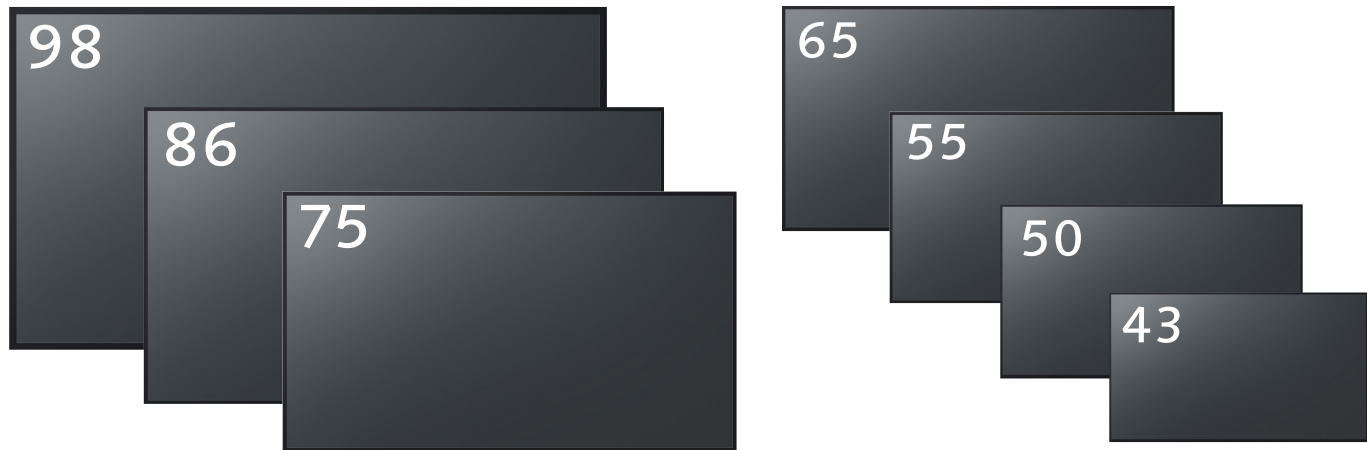
Optional Accessories

(TBD)

Software

(TBD)

4K Entry Displays in Seven Sizes that Flexibly Match Corporate Meeting Rooms/Educational Use



CQE2 Series										
	TH-98CQE2W	TH-86CQE2W	TH-75CQE2W	TH-65CQE2W	TH-55CQE2W	TH-50CQE2W	TH-43CQE2W			
Screen Size	98-inch class	86-inch class	75-inch class	65-inch class	55-inch class	50-inch class	43-inch class			
Brightness	500 cd/m ²	400 cd/m ²		500 cd/m ²						
Panel Surface Treatment	Anti-glare (Haze 25 %)	Anti-glare (Haze 3 %)	Anti-glare (Haze 1 %)			Anti-glare (Haze 3 %)	Anti-glare (Haze 1 %)			
Resolution	4K (3840 x 2160)									
Operating Time	24 h/day	16 h/day								

- **4K high-brightness panel offering high image quality and high visibility**

Available in wide 7 sizes from 98-inch to 43-inch. The 4K LCD that projects detailed content clearly with 500 cd/m² brightness and wide viewing panel suitable for use in corporate conference rooms and educational facilities.

- **Reliability and ease of installation adapted to diverse use cases**

Supports both vertical and tilting installation. Enables 16 hours/day continuous operation. Equipped with 4 HDMI™, USB-C (15 W), 3 USB-A, it can be easily installed without converters and switchers. Further, CQE2 series equipped with the built-in speaker.

- **System scalability to enable a wide range of system integration**

CQE2 series is equipped with Android™ OS, so possible to operate digital signage without STB/PC. Equipped with Wi-Fi functionality to wirelessly display images on the display from a PC or Android™ device¹. Control is possible via serial or LAN. Simultaneous control and batch management over a network are also possible.

1: Windows® 10 PC or Android device with wireless functionality. Operation is not guaranteed on all devices.

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

Model		TH-98CQE2W	TH-86CQE2W	TH-75CQE2W	TH-65CQE2W	TH-55CQE2W	TH-50CQE2W	TH-43CQE2W
Display panel	Panel size	98-inch (2476.9 mm)	86-inch (2174.2 mm)	75-inch (1892.7 mm)	65-inch (1638.9 mm)	55-inch (1387.8 mm)	50-inch (1257.3 mm)	43-inch (1079.8 mm)
	Pixels (H x V)	3840 x 2160						
	Brightness (typ.)	500 cd/m ²	400 cd/m ²			500 cd/m ²		
	Contrast	1200:1					5000:1	1200:1
	Viewing angle [(T/B)/(L/R)]	178°/178° (CR>10)						
	Panel surface treatment	Anti-glare (Haze 25 %)	Anti-glare (Haze 3 %)	Anti-glare (Haze 1 %)			Anti-glare (Haze 3 %)	Anti-glare (Haze 1 %)
Terminals	HDMI™ IN	HDMI™ x 4 (compatible with HDCP2.2)						
	USB	USB Type-A x 2, USB Type-A (Internal) x 1, USB Type-C (DC 5 V/Max. 3 A) x 1						
	microSD	microSDXC / MAX 1 TB						
	Serial IN	Stereo mini jack (ø3.5 mm) x 1, RS-232C Compatible						
	LAN	RJ45 x 1, 10BASE-T/100BASE-TX/1000BASE-T						
	IR IN	Stereo mini jack (ø3.5 mm) x 1						
	Slot	No						
	Wi-Fi	Yes (Dongle)			Yes (Built-in)			
	Bluetooth*	Yes (Dongle)			Yes (Built-in)			
	Audio OUT	Stereo mini jack (ø3.5 mm) x 1, SPDIF x 1						
Operating time		24 h/day	16 h/day					
Portrait / Tilt setting (TBD)		Yes / 0-20 degrees forward with landscape setting						
Built-in speaker		24 W			20 W		16 W	
Power consumption		(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)
Dimension (WxHxD) (Excluding remote IR sensor)		2216 x 1271 x 91 mm (87.25" x 50.02" x 3.55")	1929 x 1100 x 80 mm (75.91" x 43.28" x 3.13")	1684 x 968 x 100 mm (66.28" x 38.09" x 3.92")	1456 x 835 x 96 mm (57.32" x 32.84" x 3.78")	1236 x 710 x 68 mm (48.64" x 27.92" x 2.67")	1121 x 646 x 68 mm (44.12" x 25.43" x 2.66")	964 x 555 x 68 mm (37.92" x 21.85" x 2.66")
Dimension (WxHxD) (Including remote IR sensor)		2216 x 1288 x 91 mm (87.25" x 50.67" x 3.55")	1929 x 1116 x 80 mm (75.91" x 43.94" x 3.13")	1684 x 984 x 100 mm (66.28" x 38.74" x 3.92")	(TBD)	(TBD)	(TBD)	(TBD)
Weight		99.4kg/219.2 lbs	61.7kg/136.1 lbs	36.8 kg/81.2 lbs	(TBD)	(TBD)	(TBD)	(TBD)
Wall-hanging pitch		800 x 400 mm, M8	600 x 400 mm, M8		600 x 400 mm, M6	400 x 400 mm, M6	200 x 200 mm, M6	
HTML browser		HTML5 (Vwed)						
Android™-OS		Yes						

Optional Accessories

(TBD)

Software

(TBD)

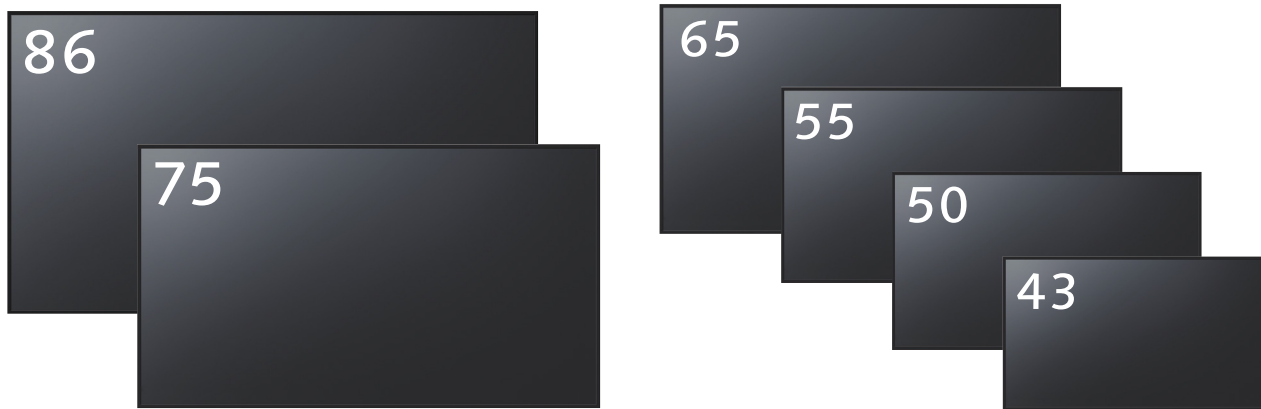
EQ2-PCAP Series

4K UHD Touch Screen Displays

AVAILABLE FROM CY2023 Q1

Note: release date varies depending on country or region and model

Interactive Multi-touch Professional Displays with Capacitive Touch Technology



Product design shown is not final.



EQ2-PCAP Series						
	TH-86EQ2-PCAP	TH-75EQ2-PCAP	TH-65EQ2-PCAP	TH-55EQ2-PCAP	TH-50EQ2-PCAP	TH-43EQ2-PCAP
Screen Size	86-inch class	75-inch class	65-inch class	55-inch class	50-inch class	43-inch class
Brightness	500 cd/m ²					
Resolution	4K (3840 x 2160)					
Touch Technology	Projected Capacitive Technology Multi-touch					

• Great touch accuracy enhancing interactions

Boost participant engagement with simple and fast touch operation which makes collaboration in meetings, brainstorm sessions and classrooms very easy and intuitive. Its multi-touch function makes it effortless to work together in a group and deliver great results.


• Easy handling without compromise

Whether used in meeting rooms, classrooms or for any type of signage application — the bezel-less design makes it very easy to wipe away any dust, dirt and germs from the display surface. Perfectly made for heavy usage without any compromise.

• Select any size for different applications

Choose from 43" up to 86" for use in small to larger meeting rooms or classrooms and huddle spaces, as well as any signage applications. Content can be easily displayed in portrait or landscape mode to give you the freedom to present any information your way.

Specifications

Model		TH-86EQ2-PCAP ²	TH-75EQ2-PCAP	TH-65EQ2-PCAP	TH-55EQ2-PCAP	TH-50EQ2-PCAP	TH-43EQ2-PCAP
Display panel	Panel size	85.6-inch (2174.2 mm)	74.5-inch (1892.7 mm)	64.5-inch (1638.9 mm)	54.6-inch (1387.8 mm)	49.5-inch (1257.3 mm)	42.5-inch (1079.8 mm)
	Backlight	D-LED					
	Aspect ratio	16:9					
	Effective display area (W x H)	1895.0 x 1065.9 mm (74.60" x 41.96")	1649.6 x 927.9 mm (64.94" x 36.53")	1428.4 x 803.5 mm (56.23" x 31.63")	1209.6 x 680.4 mm (47.62" x 26.78")	1095.8 x 616.4 mm (43.14" x 24.26")	941.1 x 529.4 mm (37.05" x 20.84")
	Resolution (H x V)	3840 x 2160					
	Brightness (Typ)	500 cd/m ²					
	Contrast Ratio	1200:1				5000:1	1200:1
	Response Time (Typ.)	8.0 ms (G to G)				9.5 ms (G to G)	8.0 ms (G to G)
	Viewing Angle [(T/B)/(L/R)]	178°/178° (CR>10)					
Touch	Panel Surface Treatment	Anti-glare					
	Detection Method	Projected Capacitive Technology Multitouch					
	Input Method	Finger and Gloved Finger					
	Glass Standard	Anti-Glare					
	Number of Simultaneous Touches	Up to 10-point multi-touch					
	Controller	Printed circuit board with mini USB connector					
	OS with Single Touch	Mac OS X Yosemite (multitouch support through TUIO bridge)					
Terminal	OS with Multitouch	Windows 10, 8, 7, Ubuntu 12.04, Linux, Android™, Chrome OS					
	HDMI IN	HDMI x 3 (compatible with HDCP2.2)					
	PC IN	Mini D-Sub 15-pin (DDC2B) x 1					
	SERIAL IN	D-sub 9pin x 1, RS-232C Compatible					
	IR IN / OUT	Stereo Mini Jack (Ø3.5 mm) x 1 / x 1					
	AUDIO IN	Stereo Mini Jack (Ø3.5 mm) x 1, (Shared video input except USB and MEMORY VIEWER), 0.5 V [rms]					
	AUDIO OUT	Stereo Mini Jack (Ø3.5 mm) x 1, Variable (- ∞ - 0 dB) (1 kHz 0 dB Input,10 kΩ Load), 0.5 V [rms]					
	LAN	RJ45 x 1 compatible with PLink™, RJ45 10BASE-T/100BASE-TX					
	USB	USB Type A Connector x 1 (DC 5 V / 1 A, USB 3.0 is supported) USB Type A Connector x 1 (DC 5 V / 2 A, USB 2.0 is supported) USB Type C Connector x 1 (Max 60 W Power Delivery compatible, USB2.0 is supported, DP Alt Mode compatible)					
	Slot	Intel® SDM standard, Corresponding size SDM-S / SDM-L, Supply power 3.3 V / 1.1 A, 12 V / 5.5 A					
	Audio	Built in Speaker	20 W [10 W+10 W]				
Electrical	Power Requirements	AC 110 - 240 V 50 Hz / 60 Hz					
	Power consumption	580 W	385 W	340 W	280 W	255 W	225 W
	On Mode Average Power Consumption	480 W	270 W	226 W	173 W	146 W	116 W
	Power Off Condition	Approx. 0.3 W					
	Stand-by Condition	Approx. 0.5 W					
	Apparent Power	591 VA	394 VA	357 VA	292 VA	268 VA	236 VA
	Energy efficiency class						
Mechanical	Dimension (W x H x D)	TBD	TBD	1521.5 x 896.4 x 63 ² mm	1273 x 743 x 62 ² mm	TBD	989.4 x 586.5 x 62 ² mm
	Weight	91.2 kg / 201.1 lbs	60.3 kg / 132.9 lbs	44.7 kg / 98.5 lbs	28.5 kg / 62.8 lbs	24.5 kg / 54.0 lbs	18.3 kg / 40.3 lbs
	Bezel Color	Black					
	Carton Dimensions (W x H x D)	2130 x 1321 x 248 mm (83.86" x 52.01" x 9.77")	1870 x 1143 x 280 mm (73.63" x 45.00" x 11.03")	1616 x 998 x 187 mm (63.63" x 39.30" x 7.37")	1350 x 860 x 160 mm (53.15" x 33.86" x 6.30")	1230 x 800 x 142 mm (48.43" x 31.50" x 5.60")	1070 x 673 x 141 mm (42.13" x 26.50" x 5.56")
	Gross Weight	111.5 kg / 245.8 lbs	74.0 kg / 163.1 lbs	55.0 kg / 121.3 lbs	35.5 kg / 78.3 lbs	30.0 kg / 66.1 lbs	22.6 kg / 49.8 lbs
	Cabinet Material	Bezel: Aluminum Metal Ring / Back: Metal					
	Pitch for Wall-Hanging	VESA Compliant 600 x 400 mm (Installed by: M8 screws / Screw hole depth 20 mm)	VESA Compliant 600 x 400 mm (Installed by: M8 screws / Screw hole depth 20 mm)	VESA Compliant 400 x 400 mm (Installed by: M8 screws / Screw hole depth 20 mm)	VESA Compliant 400 x 400 mm (Installed by: M6 screws / Screw hole depth 18 mm)	VESA Compliant 400 x 400 mm (Installed by: M6 screws / Screw hole depth 20 mm)	VESA Compliant 200 x 200 mm (Installed by: M6 screws / Screw hole depth 16 mm)
Installation	Orientation	Landscape / Portrait					
	Tilting Angle ¹	Landscape : 0 - 20 degrees forward / backward Portrait : 0 - 20 degrees forward / backward					
Environmental	Operating Environment	Temperature : 0°C to 40°C ¹ : 0°C to 35°C ² Humidity : 20% to 80% (No condensation)					

1: When installing the display vertically, be sure that the power indicator comes to the right side. Please contact your sales representative with regard to the tilt angle before installation.
2: Including depth of touch controller box

Optional Accessories

- **12G-SDI Terminal Board**
TY-SB01QS
- **DIGITAL LINK Terminal Board**
TY-SB01DL
- **Pedestal**
TY-ST75PE9 (for 75/65-inch)
TY-ST55PE9 (for 55-inch)
TY-ST43PE9 (for 50/43-inch)
- **Wall Hanging Bracket**
TY-WK98PV1 (for 86/75/65-inch)
Availability varies depending on the country.
- **Early Warning Software**
ET-SWA100/105¹ Series
1: Part number suffix may differ depending on the license type.

Peripheral

- **Wireless Presentation System**
Basic set TY-WPS1
- **360 degree camera speakerphone**
TY-CSP1
- **PressIT**
PressIT360

Panasonic CONNECT

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Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Availability of products and accessories may vary by country or region. Products may be subject to export control regulations. Depending on the temperature or humidity conditions, uneven brightness may be observed. This is not a malfunction. This unevenness will disappear while applying current continuously. If not, consult the distributor. DLP, DLP logo and DLP Medallion logo are trademarks or registered trademarks of Texas Instruments. The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade Dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. Trademark PJLink is a trademark applied for trademark rights in Japan, the United States of America and other countries and areas. Windows® is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries. Android is a trademark or registered trademark of Google LLC. IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license. Macintosh, Mac, Mac OS X, iPad, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. DisplayPort™ is a trademark owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. Intel® is registered trademark or trademark of Intel Corporation, registered in the U.S. and other countries and regions. SOLID SHINE and PressIT are trademarks of Panasonic Holdings Corporation. All other trademarks are the property of their respective trademark owners. © Panasonic Connect Co., Ltd. 2023. All rights reserved.

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