

1-Chip DLP™ RGB Laser Projector

Preliminary as of February 2026

PT-HTQ20

AVAILABLE FROM CY2026 Q4

Note: Release date and product availability may vary by country or region.

Redefining Immersive Experiences with Rec. 2020 Color, 20,000 lm¹ Brightness, and Detailed 4K² Resolution



Note: Lens not included.

• Immersive Visual Expression for Diverse Environments

VIVID PRIME™ RGB laser technology supports the Rec. 2020 color gamut standard, delivering vividly expressive 20,000 lm¹ images that bring immersive attractions to the next level. With color brightness approaching 3-Chip DLP™ models, its proprietary RGB-plus-phosphor design maintains smooth gradations for Rec. 709 content and reduces rainbow effect. The projector delivers smooth 4K² visuals with Quad Pixel Drive technology and supports high-frame-rate 2K/240 Hz playback³. An enhanced Gradation Smoother can reduce tonal banding across six levels.

• Flexible Installation with Flagship Features

The PT-HTQ20 brings 3-Chip DLP™-class features and flexibility to the 1-Chip category, with a compact size close to the PT-RQ25K and compatibility with Panasonic lenses for 3-Chip DLP™ projectors⁴. Full brightness is maintained on AC 120–240 V power⁵, broadening deployment options. In addition to a built-in 12G/3G/HD-SDI-compatible terminal, the projector features an Intel® SDM standard-compatible slot for optional function boards including the ET-SBFMP10 media processor⁶, and integrates with Visual Software Suite⁷ to automate complex adjustment workflows.

• High Reliability for Demanding Applications

The dust-resistant optical engine, together with the advanced cooling system and filterless design, enhances long-term reliability while reducing maintenance requirements. A built-in mechanical shutter helps protect the DMD from stage lighting effects, while key PCBs feature a proprietary coating to improve resistance to dust and humidity in harsh conditions. Backup Input⁸ and Multi-Laser Drive Engine minimize interruptions during mission-critical presentations.

PT-HTQ20	
Light Output	20,000 lm ¹ / 20,000 lm (ANSI) ⁹ / 20,400 lm (Center) ¹⁰ (TBD)
Resolution	4K (3840 x 2400 pixels) ²



¹ When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. 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 Maximum physical resolution is 3840 x 2400 pixels with Quad Pixel Drive [ON]. ³ The display frame rate corresponds to the input signal frame rate. ⁴ Excluding lenses for the PT-RQ50K and D75 series lenses (excluding the ET-D75LE95). ⁵ Preliminary specification for the US only. Full brightness requires AC 120 V or above. Operation at 100 V is supported but brightness may be reduced. Brightness may also be reduced depending on the operating environment, regardless of the supply voltage. ⁶ Optional proprietary and third-party function boards are sold separately. Panasonic Projector & Display Corporation cannot guarantee the operation of third-party devices. ⁷ Visual Software Suite for Windows® is available free from the PASS website. Some functionality described may require use with an optional ET-FMP50 Series media processor and a compatible camera (sold separately). ⁸ Primary and backup terminal assignment is fixed. Input signals must be identical. ⁹ When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. ¹⁰ Average light-output value of all shipped products measured at the center of the screen in [NORMAL] Mode. ¹¹ Requires optional TY-SB01DL DIGITAL LINK Terminal Board. YPbPr 4:2:0 format only for 4K/60p signals input via DIGITAL LINK.

Specifications (Tentative)

Model	PT-HTQ20																				
Projector type	1-Chip DLP™ RGB laser projector																				
DLP™ chip	24.4 mm (0.96 in) diagonal (16:10 aspect ratio)																				
Panel size	DLP™ chip x 1, DLP™ projection system																				
Display method	2,304,000 pixels (1920 x 1200 dots)																				
Number of pixels																					
Light source	Laser diodes (Red LD, Green LD, Blue LD)																				
Light output ^{1,2}	20,000 lm ³ / 20,000 lm (ANSI) ⁴ / 20,400 lm (Center) ⁵ (TBD)																				
Time until light output declines to 50 % ⁶	20,000 hours (NORMAL), 24,000 hours (ECO)																				
Resolution	4K (3840 x 2400 dots) (Quad Pixel Drive: ON)																				
Contrast ratio ³	25,000:1 (All white/All black, Dynamic Contrast [3]) (TBD)																				
Screen size (diagonal)	1.78–25.40 m (70–1000 in) (Depending on attached lens) (TBD)																				
Center-to-corner zone ratio ³	90 % or above																				
Lens	Optional (No lens included with this model)																				
Lens shift	Vertical: ±55 % (Max, depending on attached lens) (TBD)																				
(From the origin point of the lens mounter)	Horizontal: ±20 % (Max, depending on attached lens) (TBD)																				
Keystone correction range	Vertical: ±55 % (Max, depending on attached lens) (TBD) Horizontal: ±20 % (Max, depending on attached lens) (TBD)																				
Installation	Ceiling/floor, front/rear, free 360-degree installation																				
Terminals	<table border="1"> <tr><td>HDMI™ 1/2 IN</td><td>HDMI™ x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input)</td></tr> <tr><td>SDI IN</td><td>12G/3G/HD-SDI signal compatible</td></tr> <tr><td>SERIAL IN</td><td>D-sub 9-pin (Female) x 1 for external control (RS-232C compliant)</td></tr> <tr><td>MULTI PROJECTOR SYNC IN</td><td>BNC x 1, TTL high impedance</td></tr> <tr><td>MULTI PROJECTOR SYNC OUT</td><td>BNC x 1, TTL output: Maximum 10 mA</td></tr> <tr><td>REMOTE IN</td><td>M3 stereo mini-jack x 1 for wired remote control</td></tr> <tr><td>REMOTE OUT</td><td>M3 stereo mini-jack x 1 for link control (For wired remote control)</td></tr> <tr><td>LAN</td><td>RJ-45 x 1 for network connection, PJLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible</td></tr> <tr><td>USB/DC OUT</td><td>USB connector (Type A) x 1 for connecting optional AJ-WM50 Series Wireless Module/USB memory or for power supply (DC 5 V, 2 A)</td></tr> <tr><td>Expansion slot</td><td>Slot x 1, open slot, for function boards, Intel® SDM standard-compatible</td></tr> </table>	HDMI™ 1/2 IN	HDMI™ x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input)	SDI IN	12G/3G/HD-SDI signal compatible	SERIAL IN	D-sub 9-pin (Female) x 1 for external control (RS-232C compliant)	MULTI PROJECTOR SYNC IN	BNC x 1, TTL high impedance	MULTI PROJECTOR SYNC OUT	BNC x 1, TTL output: Maximum 10 mA	REMOTE IN	M3 stereo mini-jack x 1 for wired remote control	REMOTE OUT	M3 stereo mini-jack x 1 for link control (For wired remote control)	LAN	RJ-45 x 1 for network connection, PJLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible	USB/DC OUT	USB connector (Type A) x 1 for connecting optional AJ-WM50 Series Wireless Module/USB memory or for power supply (DC 5 V, 2 A)	Expansion slot	Slot x 1, open slot, for function boards, Intel® SDM standard-compatible
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Expansion slot	Slot x 1, open slot, for function boards, Intel® SDM standard-compatible																				
Protocol versions	IPv4, IPv6 ⁷																				
Power supply	Single-phase AC 100–120 V / Single-phase AC 200–240 V, 50/60 Hz																				
Maximum power consumption ⁸	(TBD)																				
On-mode power consumption [NORMAL] (Operating mode) ^{8,9}	(TBD)																				
[ECO]	(TBD)																				
Cabinet materials	Molded plastic, processed metal parts																				
Operation noise ³	(TBD)																				
Dimensions (W x H x D)	Approx. 590 x 220 x 600 mm (23 7/32" x 8 21/32" x 23 5/8") (Excluding feet, protruding parts, and lens) (TBD)																				
Weight ¹⁰	Approx. 38 kg (83.8 lbs) or less (TBD)																				
Operating environment	Operating temperature: 0–40 °C (32–113 °F) ¹¹ , operating humidity: 10–80 % (No condensation) (TBD)																				
Applicable software	Multi Monitoring and Control Software for Windows®, Visual Software Suite for Windows®, Projector Network Setup Software for Windows®, Smart Projector Control for iOS/Android™																				
Control function via LAN	Crestron Connected™ V2, Crestron XIO Cloud™, Art-Net, AMX® DD, Extron® XTP ¹² , and PJLink™ (Class 2)																				

1 This is the value when the Zoom Lens (Model No.: ET-D3LE5250) is used. The value varies depending on the lens. 2 When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. 3 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped. 4 Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. 5 Average light-output value of all shipped products measured at the center of screen in NORMAL Mode. 6 Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE] set to [DYNAMIC], [DYNAMIC CONTRAST] set to [3]). Estimated time until light output declines to 50 % varies depending on environment. 7 Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. 8 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. 9 On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft). 10 Average value. May differ depending on the actual unit. 11 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) above sea level. Note that altitude of 4,200 m (13,780 ft) above sea level is the maximum height that the performance of this projector is guaranteed. When using the projector at an altitude lower than 1,400 m (4,593 ft) above sea level, 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 between 2,700 m (8,858 ft) and 4,200 m (13,780 ft), 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. 12 Only when optional TY-SB01DL DIGITAL LINK Terminal Board is loaded.

Optional Accessories

- Fixed-Focus Lens**
ET-D3LE95 / ET-D3LEU101¹ / ET-D3LEW50¹
1 Equipped with Auto Lens Identification function.
- Zoom Lens**
ET-D3LEW201 / ET-D3LEW300 / ET-D3LEW600 /
ET-D3LEW10 / ET-D3LES250¹ / ET-D3LES20 /
ET-D3LET30 / ET-D3LET40 / ET-D3LET80
Note: Equipped with Auto Lens Identification function and stepping motor.
1 Available from CY2026 Q2.
- Fisheye Lens**
ET-D3LEF70
Note: Equipped with Auto Lens Identification function.
- Lens Fixed Attachment**
ET-PLF10 (For ET-D3LEF70) /
ET-PLF20 (For ET-D3LEU101/D3LEW201)
Note: This attachment may be required in some installation environments.

- Ceiling Mount Bracket**
ET-PKD520H (for high ceilings) / ET-PKD520S (for low ceilings)
Note: ET-PKD520H/PKD520S is used in combination with ET-PKD521B (sold separately).
- Attachment for Ceiling Mount Bracket**
ET-PKD521B
- ET-FMP50 Series Media Processors**
ET-FMP50 / ET-FMP20 / ET-SBFMP10
Note: For more information, please visit:
<https://docs.connect.panasonic.com/projector/products/fmp50/>
- Function Boards**
Media Processor Board (ET-SBFMP10) /
12G-SDI Optical Function Board (TY-SB01FB) /
12G-SDI Terminal Board (TY-SB01QS) /
DIGITAL LINK Terminal Board (TY-SB01DL)

- Wireless Module**
AJ-WM50 Series
Note: Product 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).

NFC Upgrade Kit
ET-NUK10
Note: Product 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://docs.connect.panasonic.com/projector/products/swr10> for more information.

For more information about Panasonic projectors, please visit:

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All information included here is valid as of February 2026.

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