

1-Chip DLP™ RGB Laser Projector

PT-HTQ20

Preliminary as of June 2026

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 function 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. In addition to a built-in 12G/3G/HD-SDI-compatible terminal, the projector features an Intel® SDM standard-compatible slot for optional function boards⁵ including the ET-SBFMP10 media processor, and integrates with Visual Software Suite⁶ 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 Input⁷ and Multi-Laser Drive Engine minimize interruptions during mission-critical presentations.

PT-HTQ20	
Light Output	20,000 lm ¹ / 20,000 lm (ANSI) ⁸ / 21,000 lm (Center) ⁹
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 (excepting the ET-D75LE95). ⁵ Optional proprietary and third-party function boards are sold separately. Panasonic Projector & Display Corporation cannot guarantee the operation of third-party devices. ⁶ 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). ⁷ Primary and backup terminal assignment is fixed. Input signals must be identical. ⁸ 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. ⁹ Average light-output value of all shipped products measured at the center of the screen in [NORMAL] Mode. ¹⁰ 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	Panel size	24.4 mm (0.96 in) diagonal (16:10 aspect ratio)
	Display method	DLP™ chip x 1, DLP™ projection system
	Number of pixels	2,304,000 pixels (1920 x 1200 dots)
Light source		Laser diodes (Red LD, Green LD, Blue LD)
Light output ^{1,2}		20,000 lm ³ / 20,000 lm (ANSI) ⁴ / 21,000 lm (Center) ⁵
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])
Screen size (diagonal)		1.78–25.40 m (70–1000 in) (Depending on attached lens)
Center-to-corner zone ratio ³		90 % or above
Lens		Optional (No lens included with this model)
Lens shift (From the origin point of the lens mounter)	Vertical	±55 % (Max, depending on attached lens)
	Horizontal	±20 % (Max, depending on attached lens)
Keystone correction range		Vertical: ±55 % (Max, depending on attached lens) Horizontal: ±20 % (Max, depending on attached 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)
	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, PLink™ (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
Protocol versions		IPv4, IPv6 ⁷
Power supply		Single-phase AC 100–120 V ⁸ / Single-phase AC 200–240 V, 50/60 Hz
Maximum power consumption ⁹		AC 100–120 V: 1,430 W (1,440 VA), AC 200–240 V: 1,450 W (1,465 VA)
On-mode power consumption (Operating mode) ^{9,10}	[NORMAL]	AC 100–120V: 1,200 W, AC 200–240V: 1,165 W
	[ECO]	AC 100–120 V: 990 W, AC 200–240 V: 950 W
Cabinet materials		Molded plastic, processed metal parts
Operation noise ³		42 dB (NORMAL/ECO)
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)
Weight ¹¹		Approx. 38.7 kg (85.3 lbs)
Operating environment		Operating temperature: 0–45 °C (32–113 °F) ¹² , operating humidity: 10–80 % (No condensation)
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 ¹³ , and PLink™ (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 The maximum light-output value is limited to 20,000 lm or less when operating on AC 100–120 V power. The maximum light-output value may be further reduced depending on operating conditions. 9 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. 10 On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft). 11 Average value. May differ depending on the actual unit. 12 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 1,400 m (4,593 ft) and 2,700 m (8,858 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. Do not use the projector in a location where the ambient temperature exceeds 40 °C (104 °F) regardless of the altitude when the optional AJ-WM50 Series Wireless Module is attached to the projector. 13 Only when the optional TY-SB01DL DIGITAL LINK Terminal Board is loaded.

Optional Accessories

- Fixed-Focus Lens**
 ET-D75LE95 / 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)
- Filter Kit**
 ET-EMF720DK
Note: The Filter Kit should be used under the following conditions: operating environment temperature of 0 °C (32 °F) to 35 °C (95 °F), operating altitude below 1,400 m (4,593 ft) above sea level, and AC 200–240 V power supply. Set [FILTER MODE] to [ENABLE] in the [PROJECTOR SETUP] menu → [FILTER SETTING]. Product availability may vary by country or region.
- Filter Pack**
 ET-EMF720DP
Note: Refer to the Operating Instructions for installation of the Filter Kit (Model No. ET-EMF720DK) and filter replacement procedures. Product availability may vary by country or region.
- 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.

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All information included here is valid as of June 2026.

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