

1-Chip DLP™ RGB Laser Projector

PT-HTQ20

Note: 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.

■ Main Features

01 | 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 equivalent to 3-Chip DLP™ models, its proprietary RGB laser-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 2 function can reduce tonal banding across six levels.

02 | 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 D3LE-series 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.

03 | High Reliability for Demanding Applications

IP5X-conformant⁷ light source and optical engine, sealed liquid cooling system, filterless design with refined airflow path, and coated circuit boards⁸ to suppress corrosion enhance long-term reliability and reduce maintenance in demanding conditions. Built-in mechanical shutter helps protect the DMD from laser lighting effects, while Backup Input⁹ and laser failover circuitry minimize interruptions during mission-critical presentations.

PT-HTQ20	
Light Output	20,000 lm ¹ / 20,000 lm (ANSI) ¹⁰ / 21,000 lm (Center) ¹¹
Resolution	4K (3840 x 2400 pixels) ²



¹ With ET-D3LES250 Zoom Lens attached and 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 Displayed resolution 4K (3840 x 2400 pixels) with Quad Pixel Drive [ON]. ³ Supports input signals up to 1080p. The display frame rate corresponds to the input signal frame rate. ⁴ The ET-D75LE95 is also supported. Some legacy D3LE-series lenses are incompatible with the PT-HTQ20. See Optional Accessories list for more information. ⁵ Optional proprietary and third-party function boards are sold separately. The operation of third-party devices cannot be guaranteed. ⁶ Visual Software Suite for Windows® is available free from the PASS website. Some described functions require use with an optional camera(s) (sold separately). Compatible cameras comprise NIKON D5200/D5300/D5500/D5600/D7500/Z5/Z5s and the IDS GV-5890CP-C-HQ. Note that the PT-HTQ20 is incompatible with Geometry Manager Pro software. ⁷ Conforms to the IP5X Dust Protected (IEC 60529) standard. The Dust Protected performance of this unit is not guaranteed to be free from damage or failure under all conditions (environments with conductive dust, etc.). Please use an enclosure in environments with smoke containing oil, salt, and moisture. ⁸ Coating applied to select circuit boards only. ⁹ Primary and backup terminal assignment is fixed. Input signals must be identical. ¹⁰ With ET-D3LES250 Zoom Lens attached and 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. ¹¹ Average light-output value of all shipped products measured at the center of the screen in [NORMAL] Mode. ¹² Requires optional TY-SB01DL DIGITAL LINK Terminal Board. YPbPr 4:2:0 format only for 4K/60p signals input via DIGITAL LINK.

Other Features

- Supports Crestron Connected™ V2, Crestron xIO Cloud™, Art-Net DMX, AMX® DD, PJLink™, IPv6¹, and Web API
- Contrast Sync, Shutter Sync, and data cloning² via LAN
- 2.4-inch Information Monitor OLED supports status, signal info, error messages, Angle Monitor, and more
- Supports AC 100–120 V power³
- Set up, adjust, and control with Smart Projector Control app via USB Control Connect without a LAN connection
- Advanced black level adjustment for curved screens
- Supports Multiple PJ Firmware Batch Update Tool
- HDMI™ Auto Equalization Function
- Free 360-degree installation

¹ Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. ² Data-cloning is supported among identical models only. Excludes passwords, projector ID, and network settings. Data cloning via USB device is also supported. ³ Max. brightness is limited to 20,000 lm or less on AC 100–120 V power and may be further reduced depending on operating conditions. See Operating Manual for details.

Learn More

For more information, please scan the QR code to access the PT-HTQ20 product webpage at our global projector website.



Specifications

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)
	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) / 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 %
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: ±40° (Max, depending on attached lens), Horizontal: ±40° (Max, depending on attached lens)
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/projector connection control
	REMOTE OUT	M3 stereo mini-jack x 1 for wired remote control/projector connection 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/USB Control Connect, 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 100–120 V: 1,200 W, AC 200–240 V: 1,165 W
	[ECO]	AC 100–120 V: 990 W, AC 200–240 V: 950 W
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 , PJLink™ (Class 2), Web API

¹ This is the value when the Zoom Lens (Model no. ET-D3LES250) 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 11118:2020 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 11118:2020 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 Lenses

Lens Type	Model No.	Throw Ratio ¹
Fixed-Focal-Length Lens	ET-D75LE95	0.364:1
	ET-D3LEU101 ²	0.370:1
	ET-D3LEW50 ²	0.694:1
Zoom Lens	ET-D3LEW201 ³	0.645–0.850:1
	ET-D3LEW300 ³	0.770–0.933:1
	ET-D3LEW600 ³	0.924–1.28:1
	ET-D3LEW101 ³	1.26–1.72:1
	ET-D3LES250 ³	1.67–2.41:1
	ET-D3LES20 ³	1.67–2.41:1
	ET-D3LET30 ³	2.40–4.66:1
	ET-D3LET40 ³	4.61–7.41:1
Fisheye Lens	ET-D3LET80 ³	7.34–13.8:1
	ET-D3LEF70 ²	—

¹ When inputting a 4K (3840 x 2400 dots) or WUXGA (1920 x 1200 dots) signal with the screen setting set to 16:10. ² Equipped with Auto Lens Identification Function. ³ Supports Auto Lens Identification and stepping motor functions.

Optional Accessories

• 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)

• 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

• 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-WPS2 (Basic Set)

Note: Availability may vary by country or region.

• NFC Upgrade Kit ET-NUK10

Note: Availability may vary by country or region.

• 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]. 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. Availability may vary by country or region.

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All information included here is valid as of September 2026.

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