



**Redefining Immersive Experiences with Rec. 2020 Color, 20,000 lm\*1 Brightness, and Detailed 4K\*2 Resolution**

## PT-HTQ20

Redefining Immersive Experiences with Rec. 2020 Color, 20,000 lm\*1 Brightness, and Detailed 4K\*2 Resolution \*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].

### Key Features

Immersive Visual Expression for Diverse Environments

Flexible Installation with Flagship Features

High Reliability for Demanding Applications



## PT-HTQ20

<https://eu.connect.panasonic.com/gb/en/projectors/pt-hhq20>

<b>Projector type</b>	1-Chip DLP™ RGB laser projector
<b>Display method</b>	DLP™ chip x 1, DLP™ projection system
<b>Display Device -&gt; Panel size</b>	24.4 mm (0.96 in) diagonal (16:10 aspect ratio)
<b>Display Device -&gt; Number of pixels</b>	2,304,000 pixels (1920 x 1200 dots)
<b>Light source</b>	Laser diodes (Red LD, Green LD, Blue LD)
<b>Light output <sup>*1 *2</sup></b>	20,000 lm <sup>*3</sup> (TBD)
<b>Light output (ANSI)</b>	20,000 lm <sup>*4</sup> (TBD)
<b>Light output (Center)</b>	20,400 lm <sup>*5</sup> (TBD)
<b>Time until light output declines to 50 %</b>	20,000 hours [NORMAL] -> NORMAL <sup>*6</sup>
<b>Time until light output declines to 50 %</b>	24,000 hours [ECO] -> ECO <sup>*6</sup>
<b>Resolution</b>	4K (3840 x 2400 dots) (Quad Pixel Drive: ON)
<b>Contrast Ratio (typ.) <sup>*3</sup></b>	25,000:1 (All white/All black, Dynamic Contrast [3]) (TBD)
<b>Screen size (diagonal)</b>	1.78–25.40 m (70–1000 in) (Depending on attached lens) (TBD)
<b>Center-to-corner zone ratio <sup>*3</sup></b>	90 % or above
<b>Lens</b>	Optional (No lens included with this model)
<b>Lens shift -&gt; Vertical(from center of screen)</b>	±55 % (Max, depending on attached lens) (TBD)
<b>Lens shift -&gt; Horizontal(from center of screen)</b>	±20 % (Max, depending on attached lens) (TBD)
<b>Keystone correction range</b>	Vertical: ±55 % (Max, depending on attached lens) (TBD) Horizontal: ±20 % (Max, depending on attached lens) (TBD)
<b>Installation</b>	Ceiling/floor, front/rear, free 360-degree installation
<b>Terminals -&gt; SDI IN</b>	12G/3G/HD-SDI signal compatible
<b>Terminals -&gt; HDMI™ IN</b>	HDMI™ x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input)
<b>Terminals -&gt; MULTI PROJECTOR SYNC IN</b>	BNC x 1, TTL high impedance
<b>Terminals -&gt; MULTI PROJECTOR SYNC OUT</b>	BNC x 1, TTL output: Maximum 10 mA
<b>Terminals -&gt; SERIAL IN</b>	D-sub 9-pin (Female) x 1 for external control (RS-232C compliant)
<b>Terminals -&gt; REMOTE 1 IN</b>	M3 stereo mini-jack x 1 for wired remote control
<b>Terminals -&gt; REMOTE 1 OUT</b>	M3 stereo mini-jack x 1 for link control (For wired remote control)
<b>Terminals -&gt; LAN</b>	RJ-45 x 1 for network connection, PJLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible
<b>Terminals -&gt; DC OUT</b>	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)
<b>Terminals -&gt; SLOT</b>	Slot x 1, open slot, for function boards, Intel® SDM standard-compatible
<b>Protocol versions</b>	IPv4, IPv6 <sup>*7</sup>
<b>Power supply</b>	Single-phase AC 100–120 V / Single-phase AC 200–240 V, 50/60 Hz
<b>Maximum power consumption</b>	TBD
<b>On-mode power consumption(Operating mode) -&gt; Normal <sup>*9 *10</sup></b>	TBD
<b>On-mode power consumption(Operating mode) -&gt; Eco</b>	TBD
<b>Cabinet materials</b>	Molded plastic, processed metal parts
<b>Operation noise -&gt; Normal <sup>*3</sup></b>	TBD
<b>Operation noise -&gt; Eco <sup>*3</sup></b>	TBD
<b>Operation noise -&gt; Quiet <sup>*3</sup></b>	TBD
<b>Dimensions (W x H x D)</b>	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)
<b>Weight [kg] <sup>*11</sup></b>	Approx. 38 kg (83.8 lbs) or less (TBD)
<b>Operating environment -&gt; Operating temperature <sup>*12</sup></b>	0–45 °C (32–113 °F) <sup>*11</sup> (TBD)
<b>Operating Environment -&gt; Operating humidity (No condensation)</b>	10–80 % (No condensation) (TBD)
<b>Applicable software</b>	Multi Monitoring and Control Software for Windows®, Visual Software Suite for Windows®, Projector Network Setup Software for Windows®, Smart Projector Control for iOS/Android™
<b>Control function via LAN</b>	Crestron Connected™ V2, Crestron XiO Cloud™, Art-Net, AMX® DD, Extron® XTP12, and PJLink™ (Class 2)

Footnote Description	Footnote Description
	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 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 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 (TBD). 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.
	12. Only when optional TY-SB01DL DIGITAL LINK Terminal Board is loaded.