



The PT-RZ990 Series delivers the brightness, resolution, and colour that designers need to enhance exhibits with bright, bold, and vivid pictures

## PT-RZ690/RZ690L

Deepen immersion in any environment with vivid, accurate colours backed by up to 10,000 lm\*1 of brightness thanks to Quartet Colour Harmonizer and 1-Chip DLP™ imaging technology. With support for 4K/60p input signals, separate DIGITAL LINK and LAN terminals, and diverse optional lenses, these projectors reduce installation hassles

### Key Features

Laser 1-chip DLP, 6,200 lm (center)/ 6,000 lm (ANSI), WUXGA

Quartet Colour Harmonizer technology for more accurate colour reproduction

Maintenance free up to 20,000 hours with dust-resistant optical block and long lasting laser engine

Supports 4K/60p Signal Input, separate DIGITAL LINK and LAN terminals





## PT-RZ690/RZ690L

<https://eu.connect.panasonic.com/cz/cs/projektory/pt-rz990-series/pt-rz690rz690l>

<b>Projector type</b>	1-Chip DLP™ projector
<b>Display method</b>	DLP™ chip x 1, DLP™ projection system
<b>Display Device -&gt; Panel size</b>	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)
<b>Display Device -&gt; Number of pixels</b>	2,304,000 (1920 x 1200 pixels)
<b>Light source</b>	Laser diodes
<b>Light output *1 *2 *3</b>	6,000 lm [NORMAL]
<b>Light output (ANSI) *4</b>	6,000 lm [NORMAL]
<b>Light output (Center) *5</b>	6,200 lm (Center)
<b>Time until light output declines to 50 %</b>	20,000 hours [NORMAL]
<b>-&gt; NORMAL *6</b>	
<b>Time until light output declines to 50 %</b>	24,000 hours [ECO]
<b>-&gt; ECO *6</b>	
<b>Time until light output declines to 50 %</b>	20,000 hours [QUIET]
<b>-&gt; QUIET *6</b>	
<b>Resolution</b>	1920 x 1200 pixels
<b>Contrast Ratio (typ.) *3</b>	10,000:1 (Full On/Full Off, Dynamic Contrast [3])
<b>Screen size (diagonal)</b>	1.27–15.24 m (50–600 in), 1.27–5.08 m (50–200 in) with ET-DLE055, 2.54–8.89 m (100–350 in) with ET-DLE035, 2.54–10.16 m (100–400 in) with ET-DLE020, 16:10 aspect ratio
<b>Center-to-corner zone ratio *3</b>	90 %
<b>Lens</b>	PT-RZ690: Powered zoom (throw ratio 1.71–2.41:1), powered focus F 1.7–1.9, f 25.6–35.7 mm PT-RZ690L: Optional powered zoom/focus lenses
<b>Lens shift -&gt; Vertical(from center of screen)</b>	+50 %, -16 % (+40 %, -16 % with ET-DLE060) (powered)
<b>Lens shift -&gt; Horizontal(from center of screen)</b>	+30 %, -10 % (+10 %, -20 % with ET-DLE020, +19 %, -10 % with ET-DLE060, +28 %, -10 % with ET-DLE105/ET-DLE085) (powered)
<b>Keystone correction range</b>	Vertical: ±40 ° (±5 ° with ET-DLE020, ±16 ° with ET-DLE060, ±22 ° with ET-DLE105/ET-DLE085/ET-DLE055, +5 ° with ET-DLE035), Horizontal: ±15 ° (±10 ° with ET-DLE060) (cannot be operated with ET-DLE035/ET-DLE020)
<b>Keystone correction range with optional ET-UK20 Upgrade Kit</b>	Vertical: ±45 ° (±16 ° with ET-DLE060, ±40 ° with ET-DLE150/ET-DLE250/ET-DLE170, ±22 ° with ET-DLE105/ET-DLE085/ET-DLE055), Horizontal: ±40 ° (±10 ° with ET-DLE060, ±15 ° with ET-DLE105/ET-DLE085/ET-DLE055) When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °.
<b>Installation</b>	Ceiling/floor, front/rear, free 360-degree installation
<b>Terminals -&gt; SDI IN</b>	BNC x 1 : 3G/HD/SD-SDI input
<b>Terminals -&gt; HDMI™ IN</b>	HDMI™ 19-pin x 1 (Compatible with HDCP 2.2, Deep Color, 4K/60p signal input*5)
<b>Terminals -&gt; DVI-D IN</b>	DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)
<b>Terminals -&gt; COMPUTER IN ( RGB IN )</b>	RGB x 1 (BNC x 5): (RGB/YPbPr/YCbCr)
<b>Terminals -&gt; COMPUTER IN ( D-SUB 15pin )</b>	D-sub HD 15-pin (female) x 1: (RGB/YPbPr/YCbCr)
<b>Terminals -&gt; SERIAL/MULTI-PROJECTOR SYNC IN</b>	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
<b>Terminals -&gt; SERIAL/MULTI-PROJECTOR SYNC OUT</b>	D-sub 9-pin (male) x 1 for link control
<b>Terminals -&gt; REMOTE 1 IN</b>	M3 x 1 for wired remote control
<b>Terminals -&gt; REMOTE 1 OUT</b>	M3 x 1 for link control (for wired remote control)
<b>Terminals -&gt; REMOTE 2 IN</b>	D-sub 9-pin (female) x 1 for external control (parallel)
<b>Terminals -&gt; DIGITAL LINK IN / LAN</b>	RJ-45 x 1 for network and DIGITAL LINK connections (HDBaseT™ compliant), PJLink™ (Class 2) compatible, 100Base-TX, Art-Net compatible, HDCP 2.2 compatible, Deep Color compatible, 4K/60p signal input*5
<b>Terminals -&gt; LAN</b>	RJ-45 x 1 for network connection, PJLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible
<b>Power supply</b>	AC 100–240 V, 50/60 Hz
<b>Maximum power consumption *9</b>	565 W (5.9–2.4 A)
<b>On-mode power consumption(Operating mode) -&gt; Normal *9</b>	[NORMAL] 490 W
<b>On-mode power consumption(Operating mode) -&gt; Eco *9</b>	[ECO] 395 W
<b>On-mode power consumption(Operating mode) -&gt; Quiet *9</b>	PT-RZ990/RZ990L : [QUIET1] 490 W, [QUIET2] 365 W PT-RZ890/RZ890L : [QUIET1] 460 W, [QUIET2] 345 W
<b>Standby power consumption -&gt; Normal</b>	[Standby Mode set to NORMAL] 7 W
<b>Standby power consumption -&gt; ECO</b>	[Standby Mode set to ECO] 0.5 W
<b>Cabinet materials</b>	Molded plastic
<b>Filter</b>	No
<b>Operation noise -&gt; Normal *3</b>	35 dB [NORMAL]

<b>Operation noise -&gt; Quiet <sup>*3</sup></b>	PT-RZ990/RZ990L/RZ890/RZ890L: 36 dB [QUIET1], 35 dB [QUIET2]
<b>Dimensions (W x H x D)</b>	PT-RZ690: 498 x 200*6 x 581 mm (19 19/32" x 7 7/8"*6 x 22 7/8") (with supplied lens)PT-RZ690L: 498 x 200*6 x 538 mm (19 19/32" x 7 7/8"*6 x 21 3/16") (without lens)
<b>Dimensions -&gt; Width (including protruding parts)</b>	PT-RZ690:498 mm (19 19/32")PT-RZ690L:498 mm (19 19/32")
<b>Dimensions -&gt; Height (including protruding parts)</b>	PT-RZ690:200 mm (7 7/8")PT-RZ690L:200 mm (7 7/8")
<b>Dimensions -&gt; Depth (not including protruding parts)</b>	PT-RZ690L:538 mm (21 3/16")
<b>Dimensions -&gt; Depth (including lens)</b>	PT-RZ690:581 mm (22 7/8")
<b>Weight [kg] <sup>*10</sup></b>	PT-RZ690: Approx. 22.1 kg (48.7 lbs) (with supplied lens) PT-RZ690L: Approx. 21.3 kg (47.0 lbs) (without lens)
<b>Operating environment -&gt; Operating temperature <sup>*11</sup></b>	0-45 °C (32-113 °F)
<b>Operating Environment -&gt; Operating humidity (No condensation)</b>	10-80 % (no condensation)
<b>Applicable software</b>	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro (ET-UK20 Upgrade Kit, ET-CUK10 Auto Screen Adjustment Kit), Smart Projector Control for iOS/Android™
<b>Footnote Description</b>	<ol style="list-style-type: none"> <li>1. 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.</li> <li>2. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped.</li> <li>3. Average light-output value of all shipped products measured at the center of the screen in NORMAL Mode.</li> <li>4. Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, Normal Mode, Dynamic Contrast [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 declines to 50 % varies depending on environment.</li> <li>5. Lens shift is not supported on the ET-DLE055, and the optical axis is fixed with the ET-DLE035.</li> <li>6. 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DIGITAL LINK/HDMI®.</li> <li>7. With legs at shortest position.</li> <li>8. Average value. May differ depending on the actual unit.</li> <li>9. The light output may be reduced to protect the projector depending on the temperature or altitude of operational environment.</li> </ol>