Projectors

**PT-RQ50K**
3-Chip DLP™ Projector

**PT-RQ100**
1-Chip DLP™ Projector

**PT-VMZ60 Series**
LCD Projectors

Lenses

**ET-D3LEU100**
Ultra-Short-Throw Lens for 3-Chip DLP™ Projectors

**ET-DLE020**
Ultra-Short-Throw Zoom Lens for 1-Chip DLP™ Projectors

**ET-D3LEW200**
Short-Throw Zoom Lens for 3-Chip DLP™ Projectors

Flat-Panel Displays

**SQ1 Series**
4K UHD Displays

**VF/LFV Series**
LCD Displays

**CQ1 Series**
4K UHD Displays
**Reinvent Your Business with the World’s First¹ 50,000 lm² Laser Projector with Native 4K Resolution**

Reinvent Your Business with Panasonic’s PT-RQ50K, the World’s First 50,000 lm Laser Projector with Native 4K Resolution. This revolutionary projector is designed to provide an immersive viewing experience with its high brightness and advanced technology.

**Key Features**

- **Awesomely Bright Native 4K Images for Absolute Immersion**
  - Achieves Native 4K Resolution at 50,000 lumens with new red laser enhancing blue laser technology in an optimized dual SOLID SHINE laser-phosphor drive system for vibrant, pure, and emotionally powerful color reproduction.

- **Swift Setup with Single-Body Design**
  - Produces 50,000 lm² from the same footprint as Panasonic’s 30,000-lm-class 3-Chip DLP™ laser models. Compact all-in-one body brings significant workflow advantages with simplified transport and installation, and swift setup and adjustment.

- **Reliable Operation for Mission-Critical Applications**
  - Dualized design features dual solid-state laser-phosphor drives, dual power supplies, redundancy circuits for laser modules, and backup video inputs. Hermetically sealed optics and filter-less design, meanwhile, contribute to 20,000 hours maintenance-free projection in severe conditions.

**Specifications (Tentative)**

<table>
<thead>
<tr>
<th>Model</th>
<th>PT-RQ50K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Output</td>
<td>50,000 lm²</td>
</tr>
<tr>
<td>Resolution</td>
<td>4K (4096 x 2160)</td>
</tr>
</tbody>
</table>

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*1 For laser-phosphor projectors in the single-body 50,000-lumens-class or higher, as of February 2019. *2 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118:2012 international standards. Value is average of all products when shipped. *3 Average value. May differ depending on environment.

**Optional Accessories**

- **Zoom lens**
  - ET-D3QW300 (1.1-1.7:1)
  - ET-D3QS400 (1.6-2.1:1)
  - ET-D3QT500 (2.1-3.4:1)
  - ET-D3QT600 (3.0-3.9:1)
  - ET-D3QT700 (3.9-5.4:1)

- **Power supply**
  - AC 200–240 V, 50/60 Hz; AC 100–120 V, 50/60 Hz (Brightness restricted with voltage lower than 200 V)

- **Terminals**
  - DIGITAL LINK
  - RJ-45 x 1 for network, 100Base-TX, compatible with Art-Net, PJLink™ (Class 2), Deep Color, HDCP 2.2
  - DI-1: DIGITAL OUT
  - DI-2: DIGITAL IN
  - EXPANSION SLOT 1
  - EXPANSION SLOT 2
  - RJ-45 x 1 for network, 100Base-TX, compatible with Art-Net, PJLink™ (Class 2), Deep Color, HDCP 2.2
  - BNC x 1
  - D-sub 9-pin (male) x 1 for link control
  - D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
  - D-sub 9-pin (female) x 1 for external control (parallel)
  - M3 x 1 for wired remote control
  - RJ-45 x 1 for network, 100Base-TX, compatible with Art-Net, PJLink™ (Class 2), Deep Color, HDCP 2.2

- **Keystone correction range**

- **Lens shift**

- **Screen size**

- **Contrast**

- **Time until light output declines to 50%**

- **Light output**

- **Laser diodes** (Blue LD, Red LD)

- **DLP™ chip**

- **Model**

- **Weight**

- **Dimensions (W x H x D)**

- **Operating environment**
  - Operating temperature: 0–45 °C (32–113 °F)
  - Operating humidity: 10–80 % (no condensation)

- **Center-to-corner uniformity**

- **Operation noise**

- **Cabinet materials**

- **Screen size**

- **Contrast**

- **Time until light output declines to 50%**

- **Light output**

- **Laser diodes** (Blue LD, Red LD)

- **DLP™ chip**

- **Model**

- **Weight**

- **Dimensions (W x H x D)**

- **Operating environment**
  - Operating temperature: 0–45 °C (32–113 °F)
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- **Center-to-corner uniformity**

- **Operation noise**

- **Cabinet materials**

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**Panasonic**

**PT-RQ100**

1-Chip DLP™ Projector

**Available from December 2019**

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**Compact 1-Chip DLP™ Laser Projector Creates Realistic, Color-Rich 4K Environments at 10,000 lm**

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<table>
<thead>
<tr>
<th>Specifications (Tentative)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Light Source</strong></td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
</tr>
<tr>
<td><strong>Panel</strong></td>
</tr>
<tr>
<td><strong>Chip</strong></td>
</tr>
<tr>
<td><strong>Contrast Ratio</strong></td>
</tr>
<tr>
<td><strong>Lamp Life</strong></td>
</tr>
</tbody>
</table>

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**Richly Detailed 4K Images**

4K Smooth Pixel Drive expands pixels diagonally to achieve on-screen resolution of 3840 x 2400 (UHD, 16:10), while Pure Color Harmonizer heightens color-reproduction impact for vivid, natural expression.

**Excellent Reliability in Tough Conditions**

Further improvements to Panasonic’s unique SOLID SHINE Laser cooling system achieve 20,000 hours of maintenance-free operation, all from the same compact body size as our 1-Chip DLP™ WUXGA laser models.

**Seamless Compatibility with 4K Projection Infrastructure**

Supports optional SLOT NX interface boards and 4K input. SLOT NX interface boards offer various terminal types for unique applications and also suit Panasonic 3-Chip DLP™ models, streamlining multi-projector installation.

**Quick and Easy Installation**

Geometric Adjustment simplifies image alignment on curved screens, 3D objects, and flat surfaces via remote control. PC-free setup reduces labor with expedited calibration after projector installation. Optional ET-CUK10 is available for fast automatic camera calibration, streamlining multi-projector installation.

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**Optional Accessories**

- **Pixel-Focus Lens**
  - ET-PKX100: 1.35-1.75:1
  - ET-PKX110: 1.35-1.75:1
- **Zoom Lens**
  - ET-PKZ200: 1.63-2.26:1
  - ET-PKZ300: 1.63-2.26:1
- **Projector Mount Bracket**
  - ET-PYB200: Standard
  - ET-PYB300: Large
- **Interface Board for DisplayPort™ Input**
  - ET-IBDP20 (HDCP 2.2)
  - ET-IBDP30
- **Interface Board for HDMI Input**
  - ET-IBHI30
  - ET-IBHI20
  - ET-IBHI10
  - ET-HB20
  - ET-HB10
- **Mount Bracket**
  - ET-MBN03G
  - ET-MBN03D
  - ET-MBN02G
  - ET-MBN02D
- **Auto Screen Adjustment Upgrade Kit**
  - ET-ASD100
  - ET-ASD200
  - ET-ASD300
  - ET-ASD400
- **Early Warning Software**
  - ET-ESW01
  - ET-ESW02
  - ET-ESW03
  - ET-ESW04

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* Measurement, measuring conditions, and unit of notation are in accordance with IEC62115:2012 international standards. Assume a value of 0.8 at 25°C. 4K Smooth Pixel Drive expands pixels diagonally to achieve on-screen resolution of 3840 x 2400 (UHD, 16:10), while Pure Color Harmonizer heightens color-reproduction impact for vivid, natural expression.

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* Multi Monitoring & Control Software Ver. 2.0 or later is required. Please download from the following website: [https://panasonic.net/cns/projector/download/](https://panasonic.net/cns/projector/download/)

* Note: Part number suffix may differ depending on the license type.

* ET-SWA100 Series

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* The ET-RQ100 is intended for professional use only. The availability of this unit may depend on your area. Please contact your local distributor for more details.

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* Always use the projector in a well-ventilated area. The operating environment temperature and humidity levels must be maintained within the specified ranges to ensure the projector performs optimally. The operating environment temperature and humidity levels must be maintained within the specified ranges to ensure the projector performs optimally.

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* Moulded plastic
**The World’s Smallest and Lightest**

**6,000-lm LCD Laser Projector**

**Bright and Compact**

6,000 lm at WUXGA from a compact, stylish 7.2 kg (15.87 lbs) body, bringing dynamic images to any space.

**Supreme Efficiency**

SOLID SHINE Laser light-source delivers 20,000 hours of consistent brightness and color accuracy.

**Flexible Installation**

1.6x zoom, V/H lens shift, and short 1.09:1 throw-ratio liberates installation flexibility.

**Future-Ready Connections**

Supports 4K signal input via HDMI® and DIGITAL LINK®, and features separate LAN and DIGITAL LINK® terminals.

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**Specifications (Tentative)**

<table>
<thead>
<tr>
<th>Model</th>
<th>PT-VMZ60</th>
<th>PT-VMZ50</th>
<th>PT-VMZ40</th>
<th>PT-VMW60</th>
<th>PT-VMW50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light output</td>
<td>6,000 lm</td>
<td>5,500 lm</td>
<td>4,500 lm</td>
<td>6,000 lm</td>
<td>5,000 lm</td>
</tr>
<tr>
<td>Resolution</td>
<td>WUXGA</td>
<td>WUXGA</td>
<td>WUXGA</td>
<td>WUXGA</td>
<td>WUXGA</td>
</tr>
</tbody>
</table>

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**Optional Accessories**

- **High-Ceiling Mount Bracket**
- **Low-Ceiling Mount Bracket**
- **Attachment for Ceiling Mount Bracket**
- **Remote Control with Filter Unit**
- **Wireless Module**
- **DIGITAL LINK Switcher**
- **Early Warning Software**
Zero-Offset Ultra-Short and Short-Throw Lenses Deliver Big Pictures in Limited Spaces

**Specifications (Tentative)**

<table>
<thead>
<tr>
<th>Lens Type</th>
<th>ET-D3LEU100 Ultra-Short-Throw Lens</th>
<th>ET-D3LEW200 Short-Throw Zoom Lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>F value</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>Focal length</td>
<td>8.0 mm (f) 13.8–18.1 mm</td>
<td></td>
</tr>
<tr>
<td>Screen size</td>
<td>200–600 inches</td>
<td></td>
</tr>
<tr>
<td>Throw ratio</td>
<td>4K+ WUXGA 0.37:1 0.71–0.92:1</td>
<td>0.40:1 0.65–0.85:1</td>
</tr>
<tr>
<td>Lens-shift*1</td>
<td>Vertical: ±59 % +50 % – -16 %</td>
<td>Horizontal: ±10 % +23 % – -10 %</td>
</tr>
<tr>
<td>Horizontal: TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (W×H×D)</td>
<td>275 × 154 × 430 mm</td>
<td>250 × 193 × 496 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 8.0 kg</td>
<td>Approx. 9.0 kg</td>
</tr>
<tr>
<td>Compatible projectors</td>
<td>PT-RQ32K/PT-RZ31K</td>
<td>PT-RQ22K/PT-RZ21K</td>
</tr>
</tbody>
</table>

*1 With 4K+ resolution. Value depends on resolution.

**Features**

- **Reduced Projection Distance, More Flexibility**
  Project in tight spaces from very short throw-distances. ET-D3LEW200 further enhances flexibility with a powered optical zoom, while both eliminate offset without increasing projection distance.

- **Wide-Range Adjustment After Projector Installation**
  Powered Vertical (±59 %) and Horizontal (T.B.D.) lens-shift provides wide-range adjustment after projector installation, saving time and effort.

- **Lens Design Delivers an Unobstructed View**
  L-shaped design eliminates lens under-hang, giving the audience a clear and unobstructed view of the image in low-ceiling installations.

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**Specifications (Tentative)**

<table>
<thead>
<tr>
<th>Lens Type</th>
<th>ET-DLE020 Ultra-Short-Throw Zoom Lens</th>
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</thead>
<tbody>
<tr>
<td>F value</td>
<td>2.0</td>
</tr>
<tr>
<td>Focal length</td>
<td>4.1–4.4 mm (f) 10.2–12.8 mm</td>
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<tr>
<td>Screen size</td>
<td>100–400 inches</td>
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<tr>
<td>Throw ratio</td>
<td>1080i 0.28–0.30:1 0.29–0.32:1</td>
</tr>
<tr>
<td>Lens-shift*2</td>
<td>Vertical: ±59 % +50 % – -16 %</td>
</tr>
<tr>
<td>Horizontal: TBD</td>
<td></td>
</tr>
<tr>
<td>Dimensions (W×H×D)</td>
<td>170 × 170 × 389 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>TBD</td>
</tr>
<tr>
<td>Compatible projectors</td>
<td>All Panasonic 1-Chip DLP™ projectors</td>
</tr>
</tbody>
</table>

*2 With WXGA resolution. Value depends on resolution.

**Features**

- **The Pinnacle of 1-Chip DLP™ Ultra-Short-Throw Flexibility**
  Harness the vast potential of the world’s first* ultra-short-throw lens with powered optical zoom. Combine reduced throw-distance with flexible zoom to project in extremely tight spaces.

- **Wide-range Image Adjustment in Four Directions**
  Powered ±50 % – ±16 % (Vertical) and ±23 % – ±10 % (Horizontal) lens-shift enables wide-range calibration following projector installation.

- **Minimizes Screen Shadowing**
  Ultra-short-throw design limits on-screen shadows from presenters or people passing in front of the screen.
Stylish Designs Combine Powerful Function and Performance for Various Commercial Applications

- **High Picture Quality**
  Stunning Panasonic 4K quality right down to the details, further supporting HDR and BT.2020 emulation.

- **Superb Reliability**
  Efficiency and high reliability for continuous 24-hour operation.

- **Easy Installation**
  Various installation suitable for the environment and stylish design.

- **Wide Expandability**
  Supports new SLOT of Intel® Smart Display Module (Intel® SDM) specification, DIGITAL LINK, and 4K signal compatible USB media player.
The VF/LFV Series Delivers Seamless, Multi-screen Displays for Dynamic, Large-Screen Use

- **Ideal Picture Quality**
  Seamless displays with the world's thinnest bezel to bezel 0.88 mm (TH-55VF2H/TH-55VF2 only). Excellent visibility on multiple screens with high-grade panels.

- **Easy Configuration**
  Designed to reduce installation time, labor and maintenance. Dot-by-dot display of 4K images in 2 x 2 configuration.

- **High Reliability**
  Highly durable components, 24-hour continuous operation, failover and failback (TH-55LFV9: failover only) function.

<table>
<thead>
<tr>
<th>VF/LFV Series</th>
<th>TH-55VF2H</th>
<th>TH-55VF2</th>
<th>TH-55LFV9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen size</td>
<td>55-inch</td>
<td>55-inch</td>
<td>55-inch</td>
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<tr>
<td>Brightness</td>
<td>700 cd/m²</td>
<td>500 cd/m²</td>
<td>500 cd/m²</td>
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<tr>
<td>Contrast</td>
<td>1100:1</td>
<td>1200:1</td>
<td>1200:1</td>
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<tr>
<td>LCD Panel</td>
<td>IPS</td>
<td>IPS</td>
<td>IPS</td>
</tr>
<tr>
<td>Resolution</td>
<td>1920 x 1080</td>
<td>1920 x 1080</td>
<td>1920 x 1080</td>
</tr>
</tbody>
</table>

**Specifications (Tentative)**

- **Model**
  TH-55VF2H/TH-55VF2/TH-55LFV9

- **Panel**
  IPS/Direct LED

- **Aspect ratio**
  16:9

- **Panel type / Backlight**

- **Resolution**

- **Brightness (typ.)**
  TH-55VF2H: 500 cd/m² / TH-55VF2: 500 cd/m² / TH-55LFV9: 700 cd/m²

- **Contrast ratio (typ.)**

- **Response time (typ.)**
  TH-55VF2H: 8.0 ms

- **Viewing angle [(T/B)/(L/R)]**
  TH-55VF2H: 178° / 178° (CR≥10)

- **Panel Surface Treatment**
  TH-55VF2H: Anti-Glare (Haze 28 %)

- **Effective display area**
  TH-55VF2H: (1387.8 mm) x (776.9 mm)

- **Power consumption**
  TH-55VF2H: Approx. 0.5 W in standby condition

- **Dimensions (W × H × D)**
  TH-55VF2H: 1210.6 x 681.3 x TBD mm

- **Weight**
  TH-55VF2H: TBD

- **Power requirements**
  TH-55VF2H: 110-127 V AC, 50/60 Hz, 220-240 V AC, 50/60 Hz

- **Terminals HDMI In**
  Type A Connector x 1

- **Component In**
  BNC x 1 (Shared with Component In)

- **DisplayPort In**
  1 set

- **DVI-D In/Audio In (L/R)**
  Mini D-sub 15-pin x 1 (Female) / Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)

- **DVI-I Out**
  DVI-I 29-pin x 1

- **Serial In/Out**
  2.5 mm Phone Jack x 1

- **IR In/Out**
  Stereo Mini Jack (M3) x 1

- **Audio Out**
  Optical Connector (S/PDIF) x 1 (Variable (-∞ ~ 0 dB) (1 kHz 0 dB Input, 10 kΩ Load))

- **LAN**
  RJ45 x 1, 10 BASE-T / 100 BASE-TX, Compatible with PJLink™

- **USB**
  USB Connector (TYPE-A) x 1, DC 5V/500mA (USB2.0) [only service mode]

- **Installation Mount**
  TBD

- **Early Warning Software**
  ET-SWA100/105 Series*2

  *1: Multi Monitoring & Control Software ver.2.1 or later required.
  *2: Part number suffix may differ depending on the license type.

- **Auto Display Adjustment Upgrade Kit**
  TY-VUK10

  Video Wall Manager Ver.1.10 or later required.

- **Content Management Software (Ver.3.0 or later)**
  * Windows® only.

- **Multi Monitoring & Control Software (Ver.2.1)**
  * Windows® only.

- **Video Wall Manager**

**Optional Accessories**

- **Software (free)**
  - Installation Mixed (10) *1
  - Early Warning Software *1
  - Content Management Software (Ver.3.0 or later) *1
  - Multi Monitoring & Control Software (Ver.2.1) *1
  - Video Wall Manager

**Operational Environment**

- Temperature: 0 °C to 40 °C (32 °F to 104 °F) / Humidity: 20-80 % (Non condensation) / for up to 0-1400 m (4593 ft) attitude.

- Temperature: 0 °C to 35 °C (32 °F to 95 °F) / Altitude 1400 -2800 m (4593 ft to 7874 ft)
4K Entry Displays Ideal for Presentation Use

• Detailed Images
Highly detailed images in 4K resolution (3840 x 2160) supporting 4K/60p signals for faithful expression of high-quality content.

• Versatile Basic Terminals
Ideal for presentations and information sharing in offices and classrooms. 16 hours of continuous operation for daily use.

• Easy Installation
Supports HDMI® CEC, LAN control. Six sizes allow users to choose the size that best suits the room space.

### Specifications (Tentative)

<table>
<thead>
<tr>
<th>Model</th>
<th>TH-86CQ1</th>
<th>TH-75CQ1</th>
<th>TH-65CQ1</th>
<th>TH-55CQ1</th>
<th>TH-50CQ1</th>
<th>TH-43CQ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen size</td>
<td>86-inch</td>
<td>75-inch</td>
<td>65-inch</td>
<td>55-inch</td>
<td>50-inch</td>
<td>43-inch</td>
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<tr>
<td>Brightness</td>
<td>400 cd/m²</td>
<td>400 cd/m²</td>
<td>400 cd/m²</td>
<td>400 cd/m²</td>
<td>400 cd/m²</td>
<td>400 cd/m²</td>
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<tr>
<td>LCD Panel</td>
<td>PS</td>
<td>VA</td>
<td>VA</td>
<td>VA</td>
<td>VA</td>
<td>VA</td>
</tr>
<tr>
<td>Resolution</td>
<td>4K (3840 x 2160)</td>
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### Key Features
- **Highly detailed images** in 4K resolution (3840 x 2160) supporting 4K/60p signals for faithful expression of high-quality content.
- **Versatile Basic Terminals**
  - Ideal for presentations and information sharing in offices and classrooms.
  - 16 hours of continuous operation for daily use.
- **Easy Installation**
  - Supports HDMI® CEC, LAN control. Six sizes allow users to choose the size that best suits the room space.