### Specifications

#### Main unit
- **Power supply**
  - AC 200–240 V, 50/60 Hz
  - AC 100–120 V, 50/60 Hz (Brightness is restricted to approximately 1/5)
- **Power consumption**
  - Normal: 3970 W
  - Eco: 3110 W
  - Standby mode: 8 W
- **Light source**
  - Laser Diodes
- **Light output**
  - Normal: 51,000lm (Center) / 50,000lm / 40,000 lm
  - Eco: 20,000 hours
- **Resolution**
  - 4096 x 2160 pixels
- **Contrast Ratio**
  - 20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)
- **Screen size (diagonal)**
  - 2.54–38.1 m (100–1500 in)
- **Center-to-corner uniformity**
  - 90%
- **Lens**
  - Optional (no lens included with this model)
- **Lens shift**
  - Vertical (from center of screen):
    - ±40% with ET-D3QT700/ET-D3QT800
    - ±30% with ET-D3Q7T0/ET-D3Q8T0
  - Horizontal (from center of screen):
    - ±14% with ET-D3Q3T700/ET-D3Q4T0
    - ±10% with ET-D3Q7T0/ET-D3Q8T0
- **Installation**
  - Ceiling/floor, front/rear, free 360-degree installation

#### Compatible signal
- **SDI**
  - HD-SDI signal
  - 3G-SDI signal
  - 6G-SDI signal
  - 12G-SDI signal
- **DIGITAL LINK**
  - Moving image signal resolution: 480/60i, 576/50i to 4096 x 2160
    - Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interface)
    - Dot clock frequency: 25 MHz to 297 MHz
- **HDMI**
  - Moving image signal resolution: 480/60i, 576/50i to 4096 x 2160
    - Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interface)
    - Dot clock frequency: 25 MHz to 162 MHz
- **DVI-D**
  - Moving image signal resolution: 480/60i, 576/50i to 2048 x 1080
    - Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interface)
    - Dot clock frequency: 25 MHz to 162 MHz
- **DisplayPort**
  - Moving image signal resolution: 720/60p to 4096 x 2160/60p
    - Still image signal resolution: 640 x 480 to 1920 x 1200 (non-interface)
    - Dot clock frequency: 25 MHz to 594 MHz

---

**NOTE**
- Weights and dimensions shown are approximate. Specifications subject to change without notice.

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As of January 2020

PT-RQ50K

**NOTE**
- Operating Temperature: 25 °C (77 °F), Altitude: 700m (2,300ft), IEC62787: 2008 Broadcast contents, Picture mode: Standard, Dynamic contrast [2]
- Average light-output value of all shipped products measured at center of screen in NORMAL Mode.
- Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped.
- Around this time, light output will have decreased by approximately 50 %. Dynamic Contrast [3], under conditions with 30°C (95°F), 700m (2,300ft) above sea level, and 0.15 mg/m² of particulate matter. Estimated time until light output declines to 50% varies depending on environment.

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**NOTE**
- Weights and dimensions shown are approximate. Specifications subject to change without notice.
This is supported when the optional Interface Board for DisplayPort 2 input (Model No.: ET-MDNDP10) is installed in the slot.

- Dot clock frequency: 25 MHz to 594 MHz
- Moving image signal resolution: 720/60p to 4096 x 2160/60p

Still image signal resolution:
- 640 x 400 to 1920 x 1200 (non-interlace)

This is supported when the optional Interface Board for HDMI 2 input (Model No.: ET-MDNHM10) is installed in the slot.

- Dot clock frequency: 25 MHz to 594 MHz
- Moving image signal resolution: 480/60i, 576/50i to 4096 x 2160

This is supported when the Interface Board for 12G-SDI input (Model No.: ET-MDN12G10) is installed in the slot.

- 12G-SDI signal
- 6G-SDI signal
- 3G-SDI signal
- HD-SDI signal

Risk Group

For the commercial availability of this product, please contact the nearest authorized dealer or Panasonic Sales Company, Ltd.

Laser Classification

USA and Canada: Class 3R (IEC 60825-1:2007)
Other Countries or regions: Class 1 (IEC/EN 60825-1:2014)

Operation noise

52dB

Operating temperature

0–45 °C (32–113 °F)

Operating humidity

10–80 % (no condensation)

Remote control unit

Power supply: 3 V DC (AA/R6 type battery x 2)
Operation range: Approx. 30 m (98 ft) when operated from directly in front of the signal receptor

Dimensions (W x H x D)

47.5 x 181.5 x 27.5 mm (1-7/8 x 7-5/32 x 1-3/32 inches)

Weight

Approx. 2.5 lb (1.1 kg) (including batteries)

Applicable software

Logo Transfer Software, Multi Monitoring & Control Software, Geometry Manager Pro, Smart Projector Control for iOS/Android™

Supplied Accessories

- Power cord**4, 12G-SDI Input Board x 1, Lens hole cover x 1, Wireless/wired remote control unit x 1, Batteries for remote control (AA/R6 type x 2)

Optional Accessories

- Lens: ET-D3QW300 (1.11-1.70:1), ET-D3OS400 (1.43-2.09:1), ET-D3OT500 (2.00-3.41:1), ET-D3OT600 (2.69-3.88:1), ET-D3OT700 (3.89-5.47:1), ET-D3OT800 (4.97-7.76:1)
- Interface Board:
  - HDMI Input (Input x 2)*: ET-MDNDPT2 (HDCP2.2)
  - DVI Input (Input x 2): ET-MDNDVI10
  - 12G-SDI Input (Input x 2, Input / Output x 2): ET-MDN12G10
  - Display Port (Input x 2): ET-MDN12DP10
- Wireless module: AJ-WM50 Series**5
- Early Warning Software: ET-SWA160 Series**4

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**1 Average value. May differ depending on the actual unit.
**2 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 1400 m (4593’) and 4200 m (13780’) above sea level.
**3 The operating environment temperature should be between 0°C (32°F) and 40°C (104°F) when the optional Wireless Module (Model No.: AJ-WM50 Series) is attached.
**4 When the [PROJECTOR SETUP] menu — [OPERATING MODE] is set to [NORMAL] or [ECO], the operating environment temperature exceeds the following value, the light output may be reduced to protect the projector.
  - When using the projector at an altitude lower than 2700 m (8858’) above sea level: 30°C (86°F)
  - When using the projector at an altitude between 2700 m (8858’) and 4200 m (13780’) above sea level: 25°C (77°F)
**5 The type and number of the supplied power cords vary depending on the country or region where you purchased the product.
**6 When performing the simultaneous input of the 4K image (resolution of 3840 x 2160 or 4096 x 2160) using the Interface Board for HDMI 2 input (Model No.: ET-MDNHM110), it is necessary for the firmware version of the Interface Board for HDMI 2 input to be 2.00 or later. If the version is earlier than 2.00, the simultaneous process is not performed even if corresponding signal in input. Consult your dealer regarding the version update to the latest firmware.
**7 The suffix of the Model No. differs according to the license type.
**8 In this document, the suffixes at the end of the model numbers are omitted.
**Terminals**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMOTE 1 IN / REMOTE 1 OUT</td>
<td>REMOTE 2 IN</td>
<td>SERIAL IN</td>
<td>SERIAL OUT</td>
<td>MULTI PROJECTOR SYNC IN / MULTI PROJECTOR SYNC OUT</td>
<td>SLOT 1 / SLOT 2</td>
<td>12G-SDI input board</td>
<td>SLOT Cover</td>
<td>LAN</td>
<td>DIGITAL LINK</td>
<td>DC OUT 1 / DC OUT 2</td>
<td>USB</td>
</tr>
</tbody>
</table>

**Power cord**

This projector supports AC 100 V to AC 120 V, and AC 200 V to AC 240 V as the power supply. A grounded outlet supporting 30 A is required when using the projector with AC 200 V to AC 240 V. A grounded outlet supporting 15 A is required when using the projector with AC 100 V to AC 120 V.

The shape of the usable outlet differs depending on the power supply. Following illustrations are examples.

**For 200V - 240V**

- At power outlet
- At projector

**For 200V - 240V**

- At power outlet
- At projector

**For 110V - 120V**

- At projector
- At power outlet

**At projector**

**Power outlets that can be used**

- AC IN terminal
- 2P/3W 30 A 250 V NEMA L6-30
- 2P/3W 30 A 250 V Clock position 6h
- 2P/3W 15 A 125 V

**NOTE**

- The light output will decrease to approximately 1/5 when using the projector with AC 100 V to AC 120 V.
- The supplied power cords vary depending on the country or region where you purchased the product.
Dimensions

1 Screw holes for eyebolts
   Screw diameter: M10, tapping depth inside the projector: 35 mm (1-3/8")
2 Handle (Removable)
3 Screw holes to fix the projector
   Screw diameter: M10, tapping depth inside the projector: 30 mm (1-3/16")

- Use a torque screwdriver or Allen torque wrench to tighten the fixing screws to their specified tightening torques.
- Do not use electric impact screwdrivers.

NOTE: This illustration is not drawn to scale.
Dimensions do not include the protrusion of the screw bolt for eyebolts. (3mm)  
unit: mm (inch)
NOTE
• This diagram assumes that the size and position of the projected image will be adjusted so that the image fills the entire screen.
• This illustration is not drawn to scale.
• The values are approximate.

| SH  | Projected image height |
| SW  | Projected image width   |
| SD  | Projected image size    |
| L   | Projection distance     |
| LW  | Minimum distance        |
| LT  | Maximum distance        |
| L1  | Distance from front of projector to edge of lens |

<table>
<thead>
<tr>
<th>Projection lens Model No.</th>
<th>Lens protrusion dimensions (L1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET-D3GW300</td>
<td>0.246</td>
</tr>
<tr>
<td>ET-D3GS400</td>
<td>0.232</td>
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<tr>
<td>ET-D3QF500</td>
<td>0.208</td>
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<tr>
<td>ET-D3QS600</td>
<td>0.149</td>
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<td>ET-D3QT700</td>
<td>0.221</td>
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<tr>
<td>ET-D3QT800</td>
<td>0.267</td>
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</table>
## Projection distance

**Screen aspect ratio 17: 9**

<table>
<thead>
<tr>
<th>Lens type</th>
<th>Zoom lens</th>
</tr>
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<tbody>
<tr>
<td>Projection lens Model No.</td>
<td>ET-D3QW300</td>
</tr>
<tr>
<td>Throw ratio<strong>1</strong></td>
<td>1.11-1.70:1</td>
</tr>
<tr>
<td><strong>Projection screen size</strong></td>
<td></td>
</tr>
<tr>
<td>Diagonal (SD) [m] / [in]</td>
<td>2.54 / 100</td>
</tr>
<tr>
<td>Height (SH) [m] / [in]</td>
<td>1.188 / 46.69</td>
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<tr>
<td>Width (SW) [m] / [in]</td>
<td>2.245 / 88.31</td>
</tr>
<tr>
<td>min. [LW]</td>
<td>7.94</td>
</tr>
<tr>
<td>max. [LT]</td>
<td>12.37</td>
</tr>
<tr>
<td>Projection distance (L)</td>
<td>10.28</td>
</tr>
<tr>
<td>15.23</td>
<td>18.07</td>
</tr>
<tr>
<td>15.22</td>
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<tr>
<td>19.42</td>
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<td>28.10</td>
<td>33.91</td>
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<td>35.99</td>
<td>43.40</td>
</tr>
<tr>
<td>56.49</td>
<td>68.08</td>
</tr>
</tbody>
</table>

**Lens type** | **Zoom lens** |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Projection lens Model No.</td>
<td>ET-D3QW300</td>
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<tr>
<td>Throw ratio**</td>
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<tr>
<td><strong>Projection screen size</strong></td>
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<tr>
<td>Diagonal (SD) [m] / [in]</td>
<td>2.54 / 100</td>
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<tr>
<td>Height (SH) [m] / [in]</td>
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<td>Width (SW) [m] / [in]</td>
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<td>min. [LW]</td>
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<td>12.37</td>
</tr>
<tr>
<td>Projection distance (L)</td>
<td>10.28</td>
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<tr>
<td>15.23</td>
<td>18.07</td>
</tr>
<tr>
<td>15.22</td>
<td>18.07</td>
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<td>33.91</td>
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<tr>
<td>35.99</td>
<td>43.40</td>
</tr>
<tr>
<td>56.49</td>
<td>68.08</td>
</tr>
</tbody>
</table>

*The throw ratio is based on the value during projection with the projected image size of 5.08 m (200*).

- The value for L (distance to screen) varies slightly within ±5% depending on the zoom lens characteristics.
- When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.
### Screen aspect ratio 16:10

<table>
<thead>
<tr>
<th>Lens type</th>
<th>Zoom lens</th>
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<tbody>
<tr>
<td><strong>Projection lens Model No.</strong></td>
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<td>ET-DQW300</td>
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<td>ET-DQW400</td>
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<tr>
<td>ET-DQW300</td>
<td>ET-DQW400</td>
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<td><strong>Throw ratio</strong></td>
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<td>Width (SW) [m] / [in]</td>
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<tr>
<td><strong>Projection screen size</strong></td>
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</tr>
<tr>
<td><strong>Max. [LW]</strong></td>
<td>2.76</td>
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<tr>
<td><strong>Max. [LT]</strong></td>
<td>4.30</td>
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<td><strong>Max. [DL]</strong></td>
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<td><strong>Throw ratio</strong></td>
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<tr>
<td><strong>Diagonal (LT) [m] / [in]</strong></td>
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<tr>
<td><strong>Height (LT) [m] / [in]</strong></td>
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</tr>
<tr>
<td><strong>Width (LT) [m] / [in]</strong></td>
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<td><strong>Zoom lens</strong></td>
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<tr>
<td><strong>Projection lens Model No.</strong></td>
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<tr>
<td><strong>Height (SH) [m] / [in]</strong></td>
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<tr>
<td><strong>Width (SW) [m] / [in]</strong></td>
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</tr>
<tr>
<td><strong>Zoom lens</strong></td>
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<tr>
<td><strong>Projection lens Model No.</strong></td>
<td>38.10 / 1500</td>
</tr>
<tr>
<td><strong>Height (SH) [m] / [in]</strong></td>
<td>8.89 / 350</td>
</tr>
<tr>
<td><strong>Width (SW) [m] / [in]</strong></td>
<td>7.53 / 295</td>
</tr>
</tbody>
</table>

*1 The throw ratio is based on the value during projection with the projected image size of 5.08 m (200').

- The value for L (distance to screen) varies slightly within ±5% with the zoom lens characteristics.
- When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.

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As of January 2020

RQ50KG STE 01_28/01/2020

Panasonic
<table>
<thead>
<tr>
<th>Lens type</th>
<th>Zoom lens</th>
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<tbody>
<tr>
<td>Projection lens Model No.</td>
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<td>2.54 / 100</td>
<td>1.245</td>
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<td>3.05 / 120</td>
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<td>5.08 / 200</td>
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<td>6.226</td>
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<td>15.24 / 600</td>
<td>7.472</td>
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<td>17.78 / 700</td>
<td>8.717</td>
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<td>20.32 / 800</td>
<td>9.966</td>
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<td>11.207</td>
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<td>12.453</td>
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<td>35.56 / 1400</td>
<td>17.434</td>
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<tr>
<td>38.10 / 1500</td>
<td>18.679</td>
</tr>
</tbody>
</table>

*1 The throw ratio is based on the value during 50% of the projected image size of 5.08 mm (200”).

- The value for L (distance to screen) varies slightly within ±5% depending on the lens zoom characteristics.

- When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.
### Screen aspect ratio 4:3

#### Lens type

<table>
<thead>
<tr>
<th>Projection lens Model No.</th>
<th>ET-D3QW300</th>
<th>ET-D3QS400</th>
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#### Projection screen size

<table>
<thead>
<tr>
<th>Projection distance (L)</th>
<th>ET-D3QW300</th>
<th>ET-D3QS400</th>
<th>ET-D3QT500</th>
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<th>ET-D3QT700</th>
<th>ET-D3QT800</th>
</tr>
</thead>
</table>

#### Projection distance (L) units

- **ET-D3QW300**: 50.80 - 216.00 (minimum to maximum)
- **ET-D3QS400**: 46.00 - 192.00 (minimum to maximum)
- **ET-D3QT500**: 41.00 - 168.00 (minimum to maximum)
- **ET-D3QT600**: 36.00 - 152.00 (minimum to maximum)
- **ET-D3QT700**: 31.00 - 136.00 (minimum to maximum)
- **ET-D3QT800**: 26.00 - 120.00 (minimum to maximum)

#### Projection distance (L) units (Unit: m)

<table>
<thead>
<tr>
<th>Lens type</th>
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<th>ET-D3QS400</th>
<th>ET-D3QT500</th>
<th>ET-D3QT600</th>
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</table>

### Lens type

<table>
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<th>ET-D3QS400</th>
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<th>ET-D3QT600</th>
<th>ET-D3QT700</th>
<th>ET-D3QT800</th>
</tr>
</thead>
</table>

#### Projection distance (L) units

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- **ET-D3QT500**: 41.00 - 168.00 (minimum to maximum)
- **ET-D3QT600**: 36.00 - 152.00 (minimum to maximum)
- **ET-D3QT700**: 31.00 - 136.00 (minimum to maximum)
- **ET-D3QT800**: 26.00 - 120.00 (minimum to maximum)

#### Projection distance (L) units (Unit: feet)

<table>
<thead>
<tr>
<th>Lens type</th>
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<th>ET-D3QS400</th>
<th>ET-D3QT500</th>
<th>ET-D3QT600</th>
<th>ET-D3QT700</th>
<th>ET-D3QT800</th>
</tr>
</thead>
</table>

*1 The throw ratio is based on the value during projection with the projected image size of 5.08 m (200")

- The value for L (distance to screen) varies slightly within ±5% depending on the zoom lens characteristics.
- When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.
Calculation of the projection distance

To use a projected image size not listed in this manual, check the projected image size SD (m) and use the respective formula to calculate projection distance.

The unit of all the formulae is m. (Values obtained by the following calculation formulae contain a slight error.)

When calculating a projection distance using image size designation (Value in inches), multiply the value in inches by 0.0254 and substitute it into SD in the formula for calculating the projection distance.

### Zoom lens

<table>
<thead>
<tr>
<th>Projection lens Model No.</th>
<th>Throw ratio</th>
<th>Aspect ratio</th>
<th>Projection distance (L) calculation formula</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Minimum (LW)</td>
<td>Maximum (LT)</td>
</tr>
<tr>
<td>ET-D3QW300</td>
<td>1.11-1.70:1</td>
<td>17:9</td>
<td>= 0.9981×SD - 0.1156 = 1.5291×SD - 0.1143</td>
</tr>
<tr>
<td></td>
<td>1.32-2.02:1</td>
<td>16:10</td>
<td>= 1.1341×SD - 0.1156 = 1.7374×SD - 0.1143</td>
</tr>
<tr>
<td></td>
<td>1.70-2.48:1</td>
<td>16:10</td>
<td>= 1.4590×SD - 0.1267 = 2.1302×SD - 0.1207</td>
</tr>
<tr>
<td></td>
<td>1.52-2.23:1</td>
<td>16:9</td>
<td>= 1.3496×SD - 0.1267 = 1.9705×SD - 0.1207</td>
</tr>
<tr>
<td></td>
<td>2.04-2.98:1</td>
<td>4:3</td>
<td>= 1.6517×SD - 0.1267 = 2.4115×SD - 0.1207</td>
</tr>
<tr>
<td>ET-D3QS400</td>
<td>1.43-2.09:1</td>
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<td>= 1.2841×SD - 0.1267 = 1.8748×SD - 0.1207</td>
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<td>1.70-2.48:1</td>
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<td>= 1.4590×SD - 0.1267 = 2.1302×SD - 0.1207</td>
</tr>
<tr>
<td></td>
<td>1.52-2.23:1</td>
<td>16:9</td>
<td>= 1.3496×SD - 0.1267 = 1.9705×SD - 0.1207</td>
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<td>2.04-2.98:1</td>
<td>4:3</td>
<td>= 1.6517×SD - 0.1267 = 2.4115×SD - 0.1207</td>
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<tr>
<td>ET-D3QT500</td>
<td>2.00-3.41:1</td>
<td>17:9</td>
<td>= 1.7060×SD + 0.3072 = 2.9627×SD + 0.2772</td>
</tr>
<tr>
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<td>2.36-4.03:1</td>
<td>16:10</td>
<td>= 1.9384×SD + 0.3072 = 3.3663×SD + 0.2772</td>
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<tr>
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<td>2.13-3.63:1</td>
<td>16:9</td>
<td>= 1.7931×SD + 0.3072 = 3.1139×SD + 0.2772</td>
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<tr>
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<td>2.82-4.83:1</td>
<td>4:3</td>
<td>= 2.1944×SD + 0.3072 = 3.8109×SD + 0.2772</td>
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<td>ET-D3QT600</td>
<td>2.69-3.88:1</td>
<td>17:9</td>
<td>= 2.4187×SD - 0.2235 = 3.4871×SD - 0.2915</td>
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<td>3.19-4.60:1</td>
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<td>= 2.7482×SD - 0.2235 = 3.9621×SD - 0.2915</td>
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<td>2.87-4.13:1</td>
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<td>= 2.5421×SD - 0.2235 = 3.6651×SD - 0.2915</td>
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<td>3.84-5.53:1</td>
<td>4:3</td>
<td>= 3.1111×SD - 0.2235 = 4.4855×SD - 0.2915</td>
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<tr>
<td>ET-D3QT700</td>
<td>3.89-5.47:1</td>
<td>17:9</td>
<td>= 3.4871×SD - 0.2923 = 4.9121×SD - 0.3863</td>
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<td>4.61-6.49:1</td>
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<td>= 3.9621×SD - 0.2923 = 5.5812×SD - 0.3863</td>
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<td>= 3.6651×SD - 0.2923 = 5.1627×SD - 0.3863</td>
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<td>5.54-7.80:1</td>
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<td>= 4.4855×SD - 0.2923 = 6.3184×SD - 0.3863</td>
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<tr>
<td>ET-D3QT800</td>
<td>4.97-7.76:1</td>
<td>17:9</td>
<td>= 4.4498×SD - 0.3333 = 6.9524×SD - 0.4407</td>
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<tr>
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<td>5.89-9.21:1</td>
<td>16:10</td>
<td>= 5.0559×SD - 0.3333 = 7.8994×SD - 0.4407</td>
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<tr>
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<td>5.30-8.28:1</td>
<td>16:9</td>
<td>= 4.6768×SD - 0.3333 = 7.3071×SD - 0.4407</td>
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<tr>
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<td>7.06-11.06:1</td>
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<td>= 5.7237×SD - 0.3333 = 8.9427×SD - 0.4407</td>
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</table>
**Lens shift range**

Optical axis shift function allows to shift the position of a projected image as shown below.

<table>
<thead>
<tr>
<th>Projection lens Model No.</th>
<th>ET-D3QW300</th>
<th>ET-D3QT600</th>
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</thead>
<tbody>
<tr>
<td>Lens shift range</td>
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<td></td>
</tr>
<tr>
<td>Projected image width H</td>
<td>0.14 H</td>
<td>0.08 H</td>
</tr>
<tr>
<td>Projected image height V</td>
<td>0.14 H</td>
<td>0.25 V</td>
</tr>
<tr>
<td>Optical axis center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard projection position</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Projection lens Model No.</th>
<th>ET-D3QS400, ET-D3QT500</th>
<th>ET-D3QT700, ET-D3QT800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lens shift range</td>
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<td></td>
</tr>
<tr>
<td>Projected image width H</td>
<td>0.16 H</td>
<td>0.1 H</td>
</tr>
<tr>
<td>Projected image height V</td>
<td>0.45 V</td>
<td>0.3 V</td>
</tr>
<tr>
<td>Optical axis center</td>
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<td></td>
</tr>
<tr>
<td>Standard projection position</td>
<td></td>
<td></td>
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</tbody>
</table>
Keystone correction range

<table>
<thead>
<tr>
<th>Projection lens Model No.</th>
<th>Only [KEYSTONE] used</th>
<th>[KEYSTONE] and [CURVED] used together</th>
<th>Only [CURVED] used</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>α (°)</td>
<td>β (°)</td>
<td>Min. value of R2/L2</td>
</tr>
<tr>
<td>ET-D3QW300</td>
<td>±28</td>
<td>±10</td>
<td>1.2</td>
</tr>
<tr>
<td>ET-D3QS400</td>
<td>±40</td>
<td>±20</td>
<td>0.9</td>
</tr>
<tr>
<td>ET-D3QT500</td>
<td>±40</td>
<td>±20</td>
<td>0.9</td>
</tr>
<tr>
<td>ET-D3QT600</td>
<td>±40</td>
<td>±20</td>
<td>0.9</td>
</tr>
<tr>
<td>ET-D3QT700</td>
<td>±40</td>
<td>±20</td>
<td>0.9</td>
</tr>
<tr>
<td>ET-D3QT800</td>
<td>±40</td>
<td>±20</td>
<td>0.9</td>
</tr>
</tbody>
</table>

*1 When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55°.

**NOTE**
- When [GEOMETRY] is used, the focus of the entire screen may be lost as correction increases.
- Make the curved screen a circular arc shape with one part of a perfect circle removed.
- Adjustment range of the [GEOMETRY] items may not match the listed projection range depending on the projection lens. Use this projector within the projection range, otherwise the correction may not work.
- The geometric adjustment function cannot be used when the video signal in simultaneous format is input.
- When installing the projector, follow the instructions below so that distortion does not occur in the projected image.
  - Use a flat screen.
  - Install the projector so that the front side of the projector is parallel to the screen.
  - Install the projector so that the image can be projected within the lens shift adjustment range.
**Installable angle**

360° omnidirectional projection is possible.

**Notes on installation**

- Do not stack three or more projectors
- Do not simultaneously use projectors that are stacked on top of each other without a frame
- Do not use the projector supporting it by the top
- Do not block the ventilation ports (intake and exhaust) of the projector
- Prevent hot and cool air from the air conditioning system to blow directly into the ventilation ports (intake and exhaust) of the projector.

- Do not install the projector in a confined space.
- When installing the projector in a confined space, provide air conditioning or ventilation separately. Exhaust heat may accumulate when the ventilation is not enough, triggering the protection circuit of the projector.
- Panasonic takes no responsibility for any damage to the product caused by an inappropriate choice of location for installing the projector, even if the warranty period of the product has not expired.
Cautions when conducting lifting work

- Use the eyebolts only when temporarily lifting the projector such as when installing the projector.
- Use ISO 3266 standard eyebolts (commercially available) for the M10 with an underhead length of 18 mm (23/32 inches) to 30 mm (1-3/16 inches). Also use ISO standard parts for other components to lift the projector (wires, etc.).
- Lift the projector using the eyebolts attached to 4 locations on the same plane.
- Set the lifting angle to 60° or more.
### List of compatible signals

For details of DisplayPort signal, refer to “List of DisplayPort compatible signals.” For details of SDI signal, refer to “List of single link SDI compatible signals,” “List of dual link SDI compatible signals,” and “List of quad link SDI compatible signals.” This projector supports the signal with ‘✓’ in the compatible signal column.

- **1**: Single link (displays one image using one input signal.)
- **2**: Quad link (displays one image using four input signals.)

<table>
<thead>
<tr>
<th>Signal name (SIGNAL FORMAT)</th>
<th>Resolution (Dots)</th>
<th>Scanning freq.</th>
<th>Dot clock freq. (MHz)</th>
<th>DIGITAL LINK</th>
<th>HDMI®</th>
<th>DVI-D®</th>
</tr>
</thead>
<tbody>
<tr>
<td>480/60p</td>
<td>720 x 480</td>
<td>31.5 59.9</td>
<td>27.0</td>
<td>✓</td>
<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>576/50p</td>
<td>720 x 576</td>
<td>31.3 50.0</td>
<td>27.0</td>
<td>✓</td>
<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>720/50p</td>
<td>1280 x 720</td>
<td>37.5 50.0</td>
<td>74.3</td>
<td>✓</td>
<td>✓</td>
<td>-</td>
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<tr>
<td>720/60p</td>
<td>1280 x 720</td>
<td>45.0 60.0*3</td>
<td>74.3</td>
<td>✓</td>
<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>720/120p</td>
<td>1280 x 720</td>
<td>90.0 120.0*3</td>
<td>148.5</td>
<td>-</td>
<td>✓</td>
<td>-</td>
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<tr>
<td>1080/50i</td>
<td>1920 x 1080</td>
<td>28.1 50.0</td>
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<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>1080/60i</td>
<td>1920 x 1080</td>
<td>33.8 60.0*3</td>
<td>74.3</td>
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<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>1080/24p</td>
<td>1920 x 1080</td>
<td>27.0 24.0*3</td>
<td>74.3</td>
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<td>-</td>
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<tr>
<td>1080/24F</td>
<td>1920 x 1080</td>
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<td>-</td>
</tr>
<tr>
<td>1080/25p</td>
<td>1920 x 1080</td>
<td>28.1 25.0</td>
<td>74.3</td>
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<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>1080/30p</td>
<td>1920 x 1080</td>
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<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>1080/50p</td>
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<td>56.3 50.0</td>
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<tr>
<td>1080/60p</td>
<td>1920 x 1080</td>
<td>67.5 60.0*3</td>
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</tbody>
</table>

*3-Chip DLP™ Projector

Panasonic

As of January 2020

RQ50KG_STE_01_2 8/01/2020

15/30
### 3-Chip DLP™ Projector

#### SPEC FILE

**PT-RQ50K**

<table>
<thead>
<tr>
<th>Signal name (SIGNAL FORMAT)</th>
<th>Resolution (dots)</th>
<th>Scanning freq.</th>
<th>Dot clock freq. (MHz)</th>
<th>Compatible signal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>H (kHz)</td>
<td>V (Hz)</td>
<td></td>
</tr>
<tr>
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<td>1600 x 900</td>
<td>46.4</td>
<td>49.9</td>
<td>96.5</td>
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<td>1600 x 900</td>
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<td>119.0</td>
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<td>1600 x 1200/50</td>
<td>1600 x 1200</td>
<td>61.8</td>
<td>49.9</td>
<td>131.5</td>
</tr>
<tr>
<td>1600 x 1200/60</td>
<td>1600 x 1200</td>
<td>75.0</td>
<td>60.0</td>
<td>162.0</td>
</tr>
<tr>
<td>1680 x 1050/50</td>
<td>1680 x 1050</td>
<td>54.1</td>
<td>50.0</td>
<td>119.5</td>
</tr>
<tr>
<td>1680 x 1050/60</td>
<td>1680 x 1050</td>
<td>65.3</td>
<td>60.0</td>
<td>146.3</td>
</tr>
<tr>
<td>1920 x 1200/50</td>
<td>1920 x 1200</td>
<td>61.8</td>
<td>49.9</td>
<td>158.3</td>
</tr>
<tr>
<td>1920 x 1200/60RB</td>
<td>1920 x 1200**</td>
<td>74.0</td>
<td>60.0</td>
<td>154.0</td>
</tr>
</tbody>
</table>

*1 This is supported when the optional Interface Board for HDMI 2 input (Model No.: ET-MDNHM10) is installed in the slot.

*2 This is supported when the optional Interface Board for DVI-D 2 input (Model No.: ET-MDNDV10) is installed in the slot.

*3 The signal with 1/1.001x vertical scanning frequency is also supported.

*4 YPbPr 4:2:0 format only

*5 VESA CVT-RB (Reduced Blanking)-compliant

---

**NOTE**

- The “i” at the end of the resolution indicates an interlaced signal.
- When interlaced signals are connected, flickering may occur on the projected image.
- Following settings will be disabled and fixed to [OFF] when an image with 720/120p or 1080/120p is being displayed.
- The [POSITION] menu → [GEOMETRY]

---

As of January 2020

RQ50KG_STE_01_28/01/2020

Panasonic
List of Plug and play compatible signals

The following table specifies the video signals compatible with plug and play. 

<table>
<thead>
<tr>
<th>Signal name (SIGNAL FORMAT)</th>
<th>Resolution (Dots)</th>
<th>Scanning freq.</th>
<th>Dot clock freq. (MHz)</th>
<th>Signal name</th>
<th>Resolution (Dots)</th>
<th>Scanning freq.</th>
<th>Dot clock freq. (MHz)</th>
<th>Plug and play Compatible signal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>H (KHz)</td>
<td>V (Hz)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>2K</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4K/60p</td>
</tr>
<tr>
<td></td>
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<td></td>
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<td>4K/30p</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>EDID1</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EDID2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EDID3</td>
</tr>
</tbody>
</table>

As of January 2020
### Signal name (SIGNAL FORMAT) | Resolution (Dots) | Scanning freq. | Dot clock freq. |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H (KHz)</td>
<td>V (Hz)</td>
<td>MHz</td>
</tr>
<tr>
<td>1600 x 900/50</td>
<td>46.4</td>
<td>49.9</td>
<td>96.5</td>
</tr>
<tr>
<td>1600 x 900/60</td>
<td>55.9</td>
<td>60.0</td>
<td>119.0</td>
</tr>
<tr>
<td>1600 x 1200/50</td>
<td>61.8</td>
<td>49.9</td>
<td>131.5</td>
</tr>
<tr>
<td>1600 x 1200/60</td>
<td>75.0</td>
<td>60.0</td>
<td>162.0</td>
</tr>
<tr>
<td>1680 x 1050/50</td>
<td>54.1</td>
<td>50.0</td>
<td>119.5</td>
</tr>
<tr>
<td>1680 x 1050/60</td>
<td>65.3</td>
<td>50.0</td>
<td>146.3</td>
</tr>
<tr>
<td>1920 x 1200/50</td>
<td>61.8</td>
<td>49.9</td>
<td>158.3</td>
</tr>
<tr>
<td>1920 x 1200/60RB</td>
<td>74.0</td>
<td>60.0</td>
<td>154.0</td>
</tr>
</tbody>
</table>

**Plug and play Compatible signal**

<table>
<thead>
<tr>
<th>DIGITAL LINK</th>
<th>HDMI<strong>1</strong></th>
<th>DVI-D<strong>2</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>4K/60p</td>
<td>4K/30p*3</td>
<td>2K</td>
</tr>
<tr>
<td>4K/60p*3</td>
<td>4K/30p</td>
<td>2K</td>
</tr>
<tr>
<td>4K/30p</td>
<td>2K</td>
<td>EDID1</td>
</tr>
<tr>
<td>2K</td>
<td>EDID2</td>
<td>EDID3</td>
</tr>
</tbody>
</table>

*1 This is supported when the optional Interface Board for HDMI 2 input (Model No.: ET-MDNHM10) is installed in the slot.

*2 This is supported when the optional Interface Board for DVI-D 2 input (Model No.: ET-MDNDV10) is installed in the slot.

*3 4K/30p indicates 4K/30p/SDR and 4K/30p/HDR.

*4 4K/60p indicates 4K/60p/SDR and 4K/60p/HDR.

*5 YPbPr 4:2:0 format only

*6 VESA CDT-RB (Reduced Blanking) compliant
List of DisplayPort compatible signals

The following table specifies the DisplayPort signals that the projector can project. This is supported when the optional Interface Board for DisplayPort 2input (Model No.: ET-MDNDP10) is installed in the slot.

The following table specifies the video signals compatible with plug and play. Signal with ✓ in the plug and play compatible signal column is the signal described in the EDID (extended display identification data) of the projector. For the signal without ✓ in the plug and play compatible signal column, the resolution may not be selected on the computer even if the projector is supporting it.

### Table: DisplayPort Signals

<table>
<thead>
<tr>
<th>Signal name (SIGNAL FORMAT)</th>
<th>Resolution (Dots)</th>
<th>Scanning freq.</th>
<th>Dot clock freq.</th>
<th>Plug and play Compatible signal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>H (kHz)</td>
<td>V (Hz)</td>
<td>4K/60p/HDR 4K/60p/SDR 4K/30p 2K</td>
</tr>
<tr>
<td>720/50p</td>
<td>1280 x 720</td>
<td>37.5</td>
<td>50.0</td>
<td>✓                 ✓               ✓</td>
</tr>
<tr>
<td>720/60p</td>
<td>1280 x 720</td>
<td>45.0</td>
<td>60.0†</td>
<td>✓                 ✓               ✓</td>
</tr>
<tr>
<td>720/120p</td>
<td>1280 x 720</td>
<td>90.0</td>
<td>120.0†</td>
<td>148.5             -               -</td>
</tr>
<tr>
<td>1080/24p</td>
<td>1920 x 1080</td>
<td>27.0</td>
<td>24.0†</td>
<td>✓                 ✓               ✓</td>
</tr>
<tr>
<td>1080/25p</td>
<td>1920 x 1080</td>
<td>28.1</td>
<td>25.0</td>
<td>✓                 ✓               ✓</td>
</tr>
<tr>
<td>1080/30p</td>
<td>1920 x 1080</td>
<td>33.8</td>
<td>30.0†</td>
<td>74.3              ✓               ✓</td>
</tr>
<tr>
<td>1080/50p</td>
<td>1920 x 1080</td>
<td>56.3</td>
<td>50.0</td>
<td>✓                 ✓               ✓</td>
</tr>
<tr>
<td>1080/60p</td>
<td>1920 x 1080</td>
<td>67.5</td>
<td>60.0†</td>
<td>✓                 ✓               ✓</td>
</tr>
<tr>
<td>1080/120p</td>
<td>1920 x 1080</td>
<td>135.0</td>
<td>120.0†</td>
<td>297.0             -               -</td>
</tr>
<tr>
<td>2K/24p</td>
<td>2048 x 1080</td>
<td>27.0</td>
<td>24.0†</td>
<td>-                 -               -</td>
</tr>
<tr>
<td>2K/25p</td>
<td>2048 x 1080</td>
<td>28.1</td>
<td>25.0</td>
<td>-                 -               -</td>
</tr>
<tr>
<td>2K/30p</td>
<td>2048 x 1080</td>
<td>33.8</td>
<td>30.0†</td>
<td>74.3              -               -</td>
</tr>
<tr>
<td>2K/48p</td>
<td>2048 x 1080</td>
<td>54.0</td>
<td>48.0†</td>
<td>148.5             -               -</td>
</tr>
<tr>
<td>2K/50p</td>
<td>2048 x 1080</td>
<td>56.3</td>
<td>50.0</td>
<td>-                 -               -</td>
</tr>
<tr>
<td>2K/60p</td>
<td>2048 x 1080</td>
<td>67.5</td>
<td>60.0†</td>
<td>-                 -               -</td>
</tr>
<tr>
<td>3840 x 2160/24p</td>
<td>3840 x 2160</td>
<td>54.0</td>
<td>24.0†</td>
<td>✓                 ✓               -</td>
</tr>
<tr>
<td>3840 x 2160/25p</td>
<td>3840 x 2160</td>
<td>56.3</td>
<td>25.0</td>
<td>✓                 ✓               -</td>
</tr>
<tr>
<td>3840 x 2160/30p</td>
<td>3840 x 2160</td>
<td>67.5</td>
<td>30.0†</td>
<td>297.0             ✓               ✓</td>
</tr>
<tr>
<td>3840 x 2160/50p</td>
<td>3840 x 2160</td>
<td>112.5</td>
<td>50.0</td>
<td>✓                 -               -</td>
</tr>
<tr>
<td>3840 x 2160/60p</td>
<td>3840 x 2160</td>
<td>135.0</td>
<td>60.0†</td>
<td>594.0             ✓               -</td>
</tr>
<tr>
<td>4096 x 2160/24p</td>
<td>4096 x 2160</td>
<td>54.0</td>
<td>24.0†</td>
<td>✓                 ✓               -</td>
</tr>
<tr>
<td>4096 x 2160/25p</td>
<td>4096 x 2160</td>
<td>56.3</td>
<td>25.0</td>
<td>✓                 ✓               -</td>
</tr>
<tr>
<td>4096 x 2160/30p</td>
<td>4096 x 2160</td>
<td>67.5</td>
<td>30.0†</td>
<td>297.0             ✓               ✓</td>
</tr>
<tr>
<td>4096 x 2160/50p</td>
<td>4096 x 2160</td>
<td>112.5</td>
<td>50.0</td>
<td>✓                 -               -</td>
</tr>
<tr>
<td>4096 x 2160/60p</td>
<td>4096 x 2160</td>
<td>135.0</td>
<td>60.0†</td>
<td>✓                 -               -</td>
</tr>
<tr>
<td>640 x 480/60</td>
<td>640 x 480</td>
<td>31.5</td>
<td>39.9</td>
<td>✓                 ✓               ✓</td>
</tr>
<tr>
<td>1024 x 768/50</td>
<td>1024 x 768</td>
<td>39.6</td>
<td>50.0</td>
<td>51.9              -               -</td>
</tr>
<tr>
<td>1024 x 768/60</td>
<td>1024 x 768</td>
<td>48.4</td>
<td>60.0</td>
<td>✓                 ✓               ✓</td>
</tr>
<tr>
<td>1280 x 800/50</td>
<td>1280 x 800</td>
<td>41.3</td>
<td>50.0</td>
<td>68.0              -               -</td>
</tr>
<tr>
<td>1280 x 800/60</td>
<td>1280 x 800</td>
<td>49.7</td>
<td>59.8</td>
<td>83.5              -               -</td>
</tr>
<tr>
<td>1400 x 1050/50</td>
<td>1400 x 1050</td>
<td>54.1</td>
<td>50.0</td>
<td>99.9              -               -</td>
</tr>
<tr>
<td>1400 x 1050/60</td>
<td>1400 x 1050</td>
<td>65.2</td>
<td>60.0</td>
<td>122.6             ✓               ✓</td>
</tr>
<tr>
<td>1600 x 900/60</td>
<td>1600 x 900</td>
<td>46.4</td>
<td>49.9</td>
<td>96.5              -               -</td>
</tr>
<tr>
<td>1600 x 900/60</td>
<td>1600 x 900</td>
<td>53.9</td>
<td>60.0</td>
<td>119.0             ✓               ✓</td>
</tr>
<tr>
<td>1600 x 1200/50</td>
<td>1600 x 1200</td>
<td>61.8</td>
<td>49.9</td>
<td>131.5             -               -</td>
</tr>
<tr>
<td>1600 x 1200/60</td>
<td>1600 x 1200</td>
<td>75.0</td>
<td>60.0</td>
<td>162.0             ✓               ✓</td>
</tr>
<tr>
<td>1920 x 1200/50</td>
<td>1920 x 1200</td>
<td>61.8</td>
<td>49.9</td>
<td>158.3             -               -</td>
</tr>
<tr>
<td>1920 x 1200/60/60</td>
<td>1920 x 1200</td>
<td>74.0</td>
<td>60.0</td>
<td>154.0             ✓               ✓</td>
</tr>
</tbody>
</table>

*1 The signal with 1/1.001x vertical scanning frequency is also supported.

*2 VESA DMT-RB (Reduced Blanking) compliant

**NOTE**

- Following settings will be disabled and fixed to [OFF] when an image with 720/120p or 1080/120p is being displayed.
- The [POSITION] menu ➔ [GEOMETRY]

- If connecting the projector to a computer that uses an early-type chipset or graphics card compatible with DisplayPort, the projector or computer may not be operated properly when the signal output from DisplayPort on the computer is input to the projector. In such a case, switch off the projector or computer and then switch it on.

- If the signal output from DisplayPort is input to the projector, use of the computer equipped with the latest chipset or graphics card is recommended.
### List of Single link SDI compatible signals

The following table specifies the Single link SDI signals that the projector can project.
- The content of the 4K division column is as follows.
  - SQ: Square (transmission format of Square Division)
  - IL: Interleave (transmission format of 2-Sample Interleave Division)

<table>
<thead>
<tr>
<th>Signal name (SIGNAL FORMAT)</th>
<th>Resolution (Dota)</th>
<th>Scanning freq.</th>
<th>Dot clock freq. (MHz)</th>
<th>4K division</th>
<th>Format</th>
<th>Color format</th>
<th>Sampling</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>H (kHz)</td>
<td>V (Hz)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>720/50p</td>
<td>1280 x 720</td>
<td>37.5</td>
<td>50.0</td>
<td>74.3</td>
<td>-</td>
<td>HD-SDI</td>
<td>YPbPr</td>
</tr>
<tr>
<td>720/60p</td>
<td>1280 x 720</td>
<td>45.0</td>
<td>60.0</td>
<td>74.3</td>
<td>-</td>
<td>HD-SDI</td>
<td>YPbPr</td>
</tr>
</tbody>
</table>

| 1080/50i                   | 1920 x 1080       | 28.1           | 50.0                 | 74.3        | -      | HD-SDI       | YPbPr  |
|                            | 28.1              | 50.0           | 74.3                 | 3G-SDI Level-A | YPbPr  |
|                            | 28.1              | 50.0           | 74.3                 | 3G-SDI Level-B | YPbPr  |
|                            | 28.1              | 50.0           | 74.3                 | 3G-SDI Level-A | YPbPr  |
|                            | 28.1              | 50.0           | 74.3                 | 3G-SDI Level-B | YPbPr  |
|                            | 28.1              | 50.0           | 74.3                 | 3G-SDI Level-A | YPbPr  |
|                            | 28.1              | 50.0           | 74.3                 | 3G-SDI Level-B | YPbPr  |
|                            | 28.1              | 50.0           | 74.3                 | 3G-SDI Level-A | YPbPr  |
|                            | 28.1              | 50.0           | 74.3                 | 3G-SDI Level-B | YPbPr  |
|                            | 28.1              | 50.0           | 74.3                 | 3G-SDI Level-A | YPbPr  |
|                            | 28.1              | 50.0           | 74.3                 | 3G-SDI Level-B | YPbPr  |
|                            | 28.1              | 50.0           | 74.3                 | 3G-SDI Level-A | YPbPr  |

| 1080/60i                   | 1920 x 1080       | 33.8           | 60.0                 | 74.3        | -      | HD-SDI       | YPbPr  |
|                            | 33.8              | 60.0           | 74.3                 | 3G-SDI Level-A | YPbPr  |
|                            | 33.8              | 60.0           | 74.3                 | 3G-SDI Level-B | YPbPr  |
|                            | 33.8              | 60.0           | 74.3                 | 3G-SDI Level-A | YPbPr  |
|                            | 33.8              | 60.0           | 74.3                 | 3G-SDI Level-B | YPbPr  |
|                            | 33.8              | 60.0           | 74.3                 | 3G-SDI Level-A | YPbPr  |
|                            | 33.8              | 60.0           | 74.3                 | 3G-SDI Level-B | YPbPr  |
|                            | 33.8              | 60.0           | 74.3                 | 3G-SDI Level-A | YPbPr  |

As of January 2020
## Specification Table

**3-Chip DLP™ Projector**

### Resolution (Data)

<table>
<thead>
<tr>
<th>Signal name (SIGNAL FORMAT)</th>
<th>Resolution (Data)</th>
<th>Scanning freq.</th>
<th>Dot clock freq. (MHz)</th>
<th>4K division</th>
<th>Format</th>
<th>Color format</th>
<th>Sampling</th>
</tr>
</thead>
<tbody>
<tr>
<td>1080/50p</td>
<td>1920 x 1080</td>
<td>56.3</td>
<td>50.0</td>
<td>148.5</td>
<td>-</td>
<td>3G-SDI Level-A</td>
<td>YPbPr</td>
</tr>
<tr>
<td></td>
<td>1920 x 1080†</td>
<td>56.3</td>
<td>50.0</td>
<td>148.5</td>
<td>-</td>
<td>3G-SDI Level-B</td>
<td>YPbPr</td>
</tr>
<tr>
<td></td>
<td>1920 x 1080‡</td>
<td>56.3</td>
<td>50.0</td>
<td>148.5</td>
<td>-</td>
<td>6G-SDI Type 1</td>
<td>YPbPr</td>
</tr>
<tr>
<td></td>
<td>1920 x 1080‡</td>
<td>56.3</td>
<td>50.0</td>
<td>148.5</td>
<td>-</td>
<td>6G-SDI Type 1</td>
<td>RGB</td>
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<tr>
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<td>1920 x 1080‡</td>
<td>56.3</td>
<td>50.0</td>
<td>148.5</td>
<td>-</td>
<td>6G-SDI Type 1</td>
<td>RGB</td>
</tr>
<tr>
<td></td>
<td>1920 x 1080‡</td>
<td>67.5</td>
<td>60.0*</td>
<td>148.5</td>
<td>-</td>
<td>3G-SDI Level-A</td>
<td>YPbPr</td>
</tr>
<tr>
<td></td>
<td>1920 x 1080‡</td>
<td>67.5</td>
<td>60.0*</td>
<td>148.5</td>
<td>-</td>
<td>3G-SDI Level-B</td>
<td>YPbPr</td>
</tr>
<tr>
<td></td>
<td>1920 x 1080‡</td>
<td>67.5</td>
<td>60.0*</td>
<td>148.5</td>
<td>-</td>
<td>6G-SDI Type 1</td>
<td>RGB</td>
</tr>
<tr>
<td></td>
<td>1920 x 1080‡</td>
<td>67.5</td>
<td>60.0*</td>
<td>148.5</td>
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**As of January 2020**

RQ50KG_STE_01_28/01/2020
## SIGNAL FORMAT

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<th>Dot clock freq. (MHz)</th>
<th>4K division</th>
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As of January 2020

RQ50KG_STE_01_28/01/2020

Panasonic
### Signal name (SIGNAL FORMAT) | Resolution (Dots) | Scanning freq. | Dot clock freq. (MHz) | 4K division | Format | Color format | Sampling
---|---|---|---|---|---|---|---
4096 x 2160/25p | 4096 x 2160** | 56.3 | 25.0 | 297.0 | SQ | 6G-SDI Type 2 | YPbPr | 4 : 2 : 2 10bit
| 4096 x 2160** | 56.3 | 25.0 | 297.0 | IL | 6G-SDI Type 2 | YPbPr | 4 : 2 : 2 10bit
| 4096 x 2160** | 56.3 | 25.0 | 297.0 | SQ | 12G-SDI Type 1 | YPbPr | 4 : 2 : 2 12bit
| 4096 x 2160** | 56.3 | 25.0 | 297.0 | IL | 12G-SDI Type 1 | YPbPr | 4 : 2 : 2 12bit
| 4096 x 2160** | 56.3 | 25.0 | 297.0 | SQ | 12G-SDI Type 1 | RGB | 4 : 4 : 4 10bit
| 4096 x 2160** | 56.3 | 25.0 | 297.0 | IL | 12G-SDI Type 1 | RGB | 4 : 4 : 4 10bit
| 4096 x 2160** | 56.3 | 25.0 | 297.0 | SQ | 12G-SDI Type 1 | RGB | 4 : 4 : 4 12bit
| 4096 x 2160** | 56.3 | 25.0 | 297.0 | IL | 12G-SDI Type 1 | RGB | 4 : 4 : 4 12bit

4096 x 2160/30p | 4096 x 2160** | 67.5 | 30.0** | 297.0 | SQ | 6G-SDI Type 2 | YPbPr | 4 : 2 : 2 10bit
| 4096 x 2160** | 67.5 | 30.0** | 297.0 | IL | 6G-SDI Type 2 | YPbPr | 4 : 2 : 2 10bit
| 4096 x 2160** | 67.5 | 30.0** | 297.0 | SQ | 12G-SDI Type 1 | YPbPr | 4 : 2 : 2 12bit
| 4096 x 2160** | 67.5 | 30.0** | 297.0 | IL | 12G-SDI Type 1 | YPbPr | 4 : 2 : 2 12bit
| 4096 x 2160** | 67.5 | 30.0** | 297.0 | SQ | 12G-SDI Type 1 | RGB | 4 : 4 : 4 10bit
| 4096 x 2160** | 67.5 | 30.0** | 297.0 | IL | 12G-SDI Type 1 | RGB | 4 : 4 : 4 10bit
| 4096 x 2160** | 67.5 | 30.0** | 297.0 | SQ | 12G-SDI Type 1 | RGB | 4 : 4 : 4 12bit
| 4096 x 2160** | 67.5 | 30.0** | 297.0 | IL | 12G-SDI Type 1 | RGB | 4 : 4 : 4 12bit

4096 x 2160/50p | 4096 x 2160** | 112.5 | 50.0 | 594.0 | SQ | 12G-SDI Type 1 | YPbPr | 4 : 2 : 2 10bit
| 4096 x 2160** | 112.5 | 50.0 | 594.0 | IL | 12G-SDI Type 1 | YPbPr | 4 : 2 : 2 10bit

4096 x 2160/60p | 4096 x 2160** | 135.0 | 60.0** | 594.0 | SQ | 12G-SDI Type 1 | YPbPr | 4 : 2 : 2 10bit
| 4096 x 2160** | 135.0 | 60.0** | 594.0 | IL | 12G-SDI Type 1 | YPbPr | 4 : 2 : 2 10bit

---

*1 The signal with 1/1.001x vertical scanning frequency is also supported.

*2 Only the combination of the <SDI 1 IN> terminal and the <SDI 3 IN> terminal of the optional interface Board for 12G-SDI (Model No.:ET-MDN12G10) is supported.
List of Dual link SDI compatible signals

The following table specifies the dual signal SDI signals that the projector can project.
- The content of the 4K division column is as follows.
  - SQ: Square (transmission format of Square Division)
  - IL: Interleave (transmission format of 2-Sample Interleave Division)

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<td>YPbPr</td>
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<td>2K/60p</td>
<td>1920 x 1080</td>
<td>67.5 60.0&quot; 148.5</td>
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<td>YPbPr</td>
<td>4:4:4 10bit</td>
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| 3840 x 2160 | 56.3 25.0 | 297.0 | IL | 3G-SDI Level-B Dual Stream | YPbPr | 4:2:2 10bit |
| 3840 x 2160/25p | 56.3 25.0 | 297.0 | SQ | 6G-SDI Type 1 | YPbPr | 4:2:2 12bit |
| 3840 x 2160/25p | 56.3 25.0 | 297.0 | IL | 6G-SDI Type 1 | YPbPr | 4:2:2 12bit |
| 3840 x 2160/25p | 56.3 25.0 | 297.0 | SQ | 6G-SDI Type 1 | YPbPr | 4:4:4 10bit |
| 3840 x 2160/25p | 56.3 25.0 | 297.0 | IL | 6G-SDI Type 1 | YPbPr | 4:4:4 12bit |
| 3840 x 2160/25p | 56.3 25.0 | 297.0 | IL | 6G-SDI Type 1 | RGB | 4:4:4 10bit |
| 3840 x 2160/25p | 56.3 25.0 | 297.0 | IL | 6G-SDI Type 1 | RGB | 4:4:4 12bit |

| **3840 x 2160/30p** | 56.3 30.0 | 297.0 | SQ | 3G-SDI Level-B Dual Stream | YPbPr | 4:2:2 10bit |
| 3840 x 2160 | 56.3 30.0 | 297.0 | IL | 3G-SDI Level-B Dual Stream | YPbPr | 4:2:2 10bit |
| 3840 x 2160/30p | 56.3 30.0 | 297.0 | SQ | 6G-SDI Type 1 | YPbPr | 4:2:2 12bit |
| 3840 x 2160/30p | 56.3 30.0 | 297.0 | IL | 6G-SDI Type 1 | YPbPr | 4:2:2 12bit |
| 3840 x 2160/30p | 56.3 30.0 | 297.0 | SQ | 6G-SDI Type 1 | YPbPr | 4:4:4 10bit |
| 3840 x 2160/30p | 56.3 30.0 | 297.0 | IL | 6G-SDI Type 1 | YPbPr | 4:4:4 10bit |
| 3840 x 2160/30p | 56.3 30.0 | 297.0 | IL | 6G-SDI Type 1 | RGB | 4:4:4 10bit |
| 3840 x 2160/30p | 56.3 30.0 | 297.0 | IL | 6G-SDI Type 1 | RGB | 4:4:4 12bit |
| 3840 x 2160/30p | 56.3 30.0 | 297.0 | IL | 6G-SDI Type 1 | RGB | 4:4:4 12bit |

| **3840 x 2160/50p** | 56.3 60.0 | 594.0 | SQ | 3G-SDI Level-B Dual Stream | YPbPr | 4:2:2 10bit |
| 3840 x 2160 | 56.3 60.0 | 594.0 | IL | 3G-SDI Level-B Dual Stream | YPbPr | 4:2:2 10bit |
| 3840 x 2160/50p | 56.3 60.0 | 594.0 | SQ | 6G-SDI Type 1 | YPbPr | 4:2:2 12bit |
| 3840 x 2160/50p | 56.3 60.0 | 594.0 | IL | 6G-SDI Type 1 | YPbPr | 4:2:2 12bit |
| 3840 x 2160/50p | 56.3 60.0 | 594.0 | IL | 6G-SDI Type 1 | YPbPr | 4:4:4 10bit |
| 3840 x 2160/50p | 56.3 60.0 | 594.0 | IL | 6G-SDI Type 1 | RGB | 4:4:4 10bit |
| 3840 x 2160/50p | 56.3 60.0 | 594.0 | IL | 6G-SDI Type 1 | RGB | 4:4:4 12bit |

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| 4096 x 2160 | 54.0 24.0 | 297.0 | IL | 3G-SDI Level-B Dual Stream | YPbPr | 4:2:2 10bit |
| 4096 x 2160/24p | 54.0 24.0 | 297.0 | SQ | 6G-SDI Type 1 | YPbPr | 4:2:2 12bit |
| 4096 x 2160/24p | 54.0 24.0 | 297.0 | IL | 6G-SDI Type 1 | YPbPr | 4:2:2 12bit |
| 4096 x 2160/24p | 54.0 24.0 | 297.0 | SQ | 6G-SDI Type 1 | YPbPr | 4:4:4 10bit |
| 4096 x 2160/24p | 54.0 24.0 | 297.0 | IL | 6G-SDI Type 1 | YPbPr | 4:4:4 12bit |
| 4096 x 2160/24p | 54.0 24.0 | 297.0 | SQ | 6G-SDI Type 1 | RGB | 4:4:4 10bit |
| 4096 x 2160/24p | 54.0 24.0 | 297.0 | IL | 6G-SDI Type 1 | RGB | 4:4:4 12bit |
| 4096 x 2160/24p | 54.0 24.0 | 297.0 | IL | 6G-SDI Type 1 | RGB | 4:4:4 12bit |</p>
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1. The signal with 1/1.001x vertical scanning frequency is also supported.
2. Only the combination of the <SDI 1 IN> terminal and the <SDI 3 IN> terminal of the optional interface Board for 12G-SDI (Model No.:ET-MDN12G10) is supported.
### List of Quad link SDI compatible signals

The following table specifies the quad link SDI signals that the projector can project. In addition to the standard SDI input, the content of the 4K division column is as follows.

- **SQ**: Square (transmission format of Square Division)
- **IL**: Interleave (transmission format of 2-Sample Interleave Division)

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### 3-Chip DLP™ Projector

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<td>297.0 MHz</td>
<td>SQ</td>
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<td>YPbPr</td>
<td>2:2:12bit</td>
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<td>YPbPr</td>
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As of January 2020

RQ50KG_STE_01_28/01/2020
### Signal name (SIGNAL FORMAT)

<table>
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<tr>
<th>Resolution (Data)</th>
<th>Scanning freq.</th>
<th>Dot clock freq. (MHz)</th>
<th>4K division</th>
<th>Format</th>
<th>Color format</th>
<th>Sampling</th>
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<tbody>
<tr>
<td>H (kHz)</td>
<td>V (Hz)</td>
<td>135.0</td>
<td>60.0</td>
<td>10bit</td>
<td>4:2:2</td>
<td>10bit</td>
</tr>
<tr>
<td>4096 x 2160</td>
<td>56.3</td>
<td>25.0</td>
<td>297.0</td>
<td>SQ</td>
<td>HD-SDI</td>
<td>4:2:2:10bit</td>
</tr>
<tr>
<td>4096 x 2160</td>
<td>56.3</td>
<td>25.0</td>
<td>297.0</td>
<td>SQ</td>
<td>3G-SDI Level-A</td>
<td>4:2:2:12bit</td>
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<td>56.3</td>
<td>25.0</td>
<td>297.0</td>
<td>IL</td>
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<td>IL</td>
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</tr>
</tbody>
</table>

*1 The signal with 1/1.001x vertical scanning frequency is also supported.
## List of Simultaneous input compatible signals

The following table specifies the simultaneous input compatible video signals that the projector can project.

<table>
<thead>
<tr>
<th>Signal name (SIGNAL FORMAT)</th>
<th>Resolution (Dots)</th>
<th>Scanning freq.</th>
<th>Dot clock freq. (MHz)</th>
<th>Simultaneous input compatible signal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>H (KHz)</td>
<td>V (Hz)</td>
<td>HDMI*1</td>
</tr>
<tr>
<td>1080/60p</td>
<td>1920 x 1080</td>
<td>67.5</td>
<td>60.0</td>
<td>✓</td>
</tr>
<tr>
<td>1080/50p</td>
<td>1920 x 1080</td>
<td>56.3</td>
<td>50.0</td>
<td>✓</td>
</tr>
<tr>
<td>3840 x 2160/50</td>
<td>3840 x 2160</td>
<td>112.5</td>
<td>50.0</td>
<td>✓</td>
</tr>
<tr>
<td>3840 x 2160/60</td>
<td>3840 x 2160</td>
<td>135.0</td>
<td>60.0</td>
<td>✓</td>
</tr>
<tr>
<td>4096 x 2160/50</td>
<td>4096 x 2160</td>
<td>112.5</td>
<td>50.0</td>
<td>✓</td>
</tr>
<tr>
<td>4096 x 2160/60</td>
<td>4096 x 2160</td>
<td>135.0</td>
<td>60.0</td>
<td>✓</td>
</tr>
</tbody>
</table>

*1 This is supported when an optional HDMI 2 input interface board (model number: ET-MDNHM10) is installed in both slots.
*2 This is supported when the optional Interface Board for DVI-D 2 input (Model No.: ET-MDNDV10) is installed in both slots.
*3 This is supported when the optional Interface Board for DisplayPort 2 input (Model No.: ET-MDNDP10) is installed in both slots.
*4 When performing the simultaneous input of the 4K image (resolution of 3840 x 2160 or 4096 x 2160) using the Interface Board for HDMI 2 input (Model No.: ET-MDNHM10), it is necessary for the firmware version of the Interface Board for HDMI 2 input to be 2.00 or later. If the version is earlier than 2.00, the simultaneous process is not performed even if corresponding signal is input. Consult your dealer regarding the version update to the latest firmware.
*5 This is supported when the Interface Board for 12G-SDI input (Model No.: ET-MDN12G10) is installed in both slots.

**NOTE**
- The geometric adjustment function cannot be used when the video signal in simultaneous format is input.