More Interactive Projection in a Limited Space
Space-Saving, Easy Interactivity”, Powered by a Long-Lasting Lamp

With its compact, lightweight body, the TW341R series enables large-screen projection even in limited spaces, making it ideal for small meeting rooms and classrooms. Interactive functions*1 make lectures and meetings more effective and give high-impact presentations.

Superb Performance with Interactive Functionality”

Interactive Functions Let You Write on a Projected Image (PT-TW341R Only)
You can write or draw figures on the projected image with the Interactive Pen/Pointer*. The scanning camera frame rate of the PT-TW341R, which is higher compact to our previous products,*2 ensures smoother writing. In addition, two users can write simultaneously to make classes and presentations more effective. It is also easy to store the words and figures in a computer for information sharing.

Convenient Interactive Features
• Auto driver installation
  No need to install a special driver from a CD-ROM.*4
• Auto calibration
  Auto calibration helps to reduce setting time. Manual calibration is also available by touching four points with the Interactive Pen/Pointer**.
• Functionality improved
  The faster frame rate ensures smooth, comfortable writing.

A Full 3,500 lm of Brightness*6 and 5,000:1 Contrast Ratio
A remarkable 3,500 lm*6 of brightness and 5,000:1 contrast have been achieved in a compact, easy-to-carry body. Bright, clear images enhance the variety of viewing situations and applications.

A Maximum 8,000-Hour Lamp Replacement Cycle*8
It enables to operate for up to 8,000 hours without needing to be replaced. This also helps reduce maintenance and operating costs.

Quiet 29-dB*7 Design Helps to Hold Viewers’ Attention
The noise level is as low as 29 dB. This helps your audience to keep their attention on the discussion or on the screen images during quiet scenes.

Daylight View Lite
The Daylight View Lite function supports easy and comfortable viewing during presentations and lectures in a bright room. Using the remote controller, you can easily turn on/off the brightness and color level.

Ease of Installation
Wide 80-inch Screen Images with a Short Projection Distance of 75 cm*9 (2.5 ft)
Close range projection reduces not only the shadows of the presenter but also the glare of the projection light, making lectures and meetings more comfortable.

Curved Screen Correction*10
Barrel and pincushion distortion is easily corrected when projecting onto a curved screen.

Corner Keystone Correction*12 Enables Angled Projection
All you need to do is designate four points as the corners of the projected image, and this function easily carries out horizontal and vertical keystone correction.

Multiple Unit Monitoring Capability
Multi Projector Monitoring and Control Software is available for monitoring and controlling multiple Panasonic projectors from a single PC.
**Memory Viewer Function**
In addition to JPEG/BMP image and text files, PDF files can also be projected by simply inserting a USB memory device containing the data into the USB memory port. Now you can start your presentation without having to connect to a computer.

**USB Display Function** for Easy Projection Using a USB Cable
USB Display outputs images and sounds from the computer without the need to install any software. Simply connect to the USB port with a single USB cable and start your presentation.

**Equipped with an HDMI Input Terminal and Abundant Interfaces**
Supports a wide range of system architectures.

**Other Useful Features**
- Built-in closed caption decoder
- Start up logo
- PJLink™ compatibility
- Built-in 10 W speaker
- Direct power off
- Easy lamp and filter replacement
- Projector identification system for up to 6 projectors
- Blackboard modes
- Equipped with a security bar for theft prevention

**Eco-friendly**
- Ecology conscious design
- No halogenated flame retardants are used in the cabinet.
- Lead-free glass is used for the lens.
- Coating-free cabinet for easy recycling.
- Switchable lamp mode

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**Built-in camera**
PT-TW341R

**Variety of Useful Features**

**Projection distance**

<table>
<thead>
<tr>
<th>Model</th>
<th>PT-TW341R/TW340/TW250</th>
<th>PT-TX400/TX310/TX210</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagonal</td>
<td>Projected image</td>
<td>Height from the edge of screen to center of lens</td>
</tr>
<tr>
<td>image size</td>
<td>distance (L)</td>
<td>(unit: feet [meters])</td>
</tr>
<tr>
<td>50&quot;</td>
<td>1.59 (0.53)</td>
<td>0.42 (0.13)</td>
</tr>
<tr>
<td>60&quot;</td>
<td>1.86 (0.56)</td>
<td>0.50 (0.15)</td>
</tr>
<tr>
<td>70&quot;</td>
<td>2.27 (0.70)</td>
<td>0.58 (0.18)</td>
</tr>
<tr>
<td>80&quot;</td>
<td>2.65 (0.85)</td>
<td>0.66 (0.20)</td>
</tr>
<tr>
<td>90&quot;</td>
<td>3.06 (0.93)</td>
<td>0.74 (0.22)</td>
</tr>
<tr>
<td>100&quot;</td>
<td>3.50 (1.07)</td>
<td>0.82 (0.25)</td>
</tr>
</tbody>
</table>

*Lens performance cannot be guaranteed for projection sizes larger than 1.14 m.*

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**Note:** A built-in camera is featured on the PT-TW341R only.

**PT-TX210**

**Variety of Useful Features**

**Projection distance**

<table>
<thead>
<tr>
<th>Model</th>
<th>PT-TX341R/TX340/TX220</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagonal</td>
<td>Projected image</td>
</tr>
<tr>
<td>image size</td>
<td>distance (L)</td>
</tr>
<tr>
<td>50&quot;</td>
<td>1.49 (0.45)</td>
</tr>
<tr>
<td>60&quot;</td>
<td>1.81 (0.55)</td>
</tr>
<tr>
<td>70&quot;</td>
<td>2.19 (0.67)</td>
</tr>
<tr>
<td>80&quot;</td>
<td>2.55 (0.78)</td>
</tr>
<tr>
<td>90&quot;</td>
<td>2.97 (0.91)</td>
</tr>
<tr>
<td>100&quot;</td>
<td>3.42 (1.05)</td>
</tr>
</tbody>
</table>

*The value for L (distance to screen) varies slightly depending on the zoom lens characteristics.*

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**Note:** Only vertical keystone correction for the PT-TX210. *11 Excluding the PT-TX210. *12 2 W speaker for the PT-TX210.
### Specifications

**Model**
- PT-TW341R
- PT-TW340
- PT-TW250
- PT-TX400
- PT-TX310
- PT-TX210

**Power supply**
- AC100–240 V 50/60 Hz

**Lamp power**
- Display method: Transmissive (3 LCDs)
- View method: Active matrix method

**Panel size**
- 1.5 mm (0.059 inch) diagonal; 16:10 aspect ratio

**Throw**
- 1.5 m (4.9 ft) diagonal; 4:3 aspect ratio

**Lamp**
- Fixed focus, Manual focus, 1:1, 0.68:1, 0.68:1 (Image Ratio: 0.48:1)

**Screen size**
- 1.27–2.64 m (4–8.6 feet) diagonal; 4:3 aspect ratio

**Resolution**
- 1,280 x 800 pixels (Input signals that exceed this resolution will be converted to 1,280 x 800 pixels)
- 1,024 x 768 pixels (Input signals that exceed this resolution will be converted to 1,024 x 768 pixels)

**Brightness (Lamp power: Normal)**
- 2,200 lm

**Lamp replacement cycle**
- 14,000 hr

**Caution**
- If stacking projector units, care must be taken to provide the recommended space between units.
- Make sure there is an unobstructed space of 1000 mm (3 ft 3 in) or more around the projector's exhaust openings.
- Never place objects on top of the projector while it is in operation.
- The projector uses a high-voltage mercury lamp under high internal pressure. This lamp may break, emitting a popping sound, or fail to illuminate, due to impact or extended use.

**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>unit: mm (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>335 (13-3/16)</td>
<td>329 (12-15/16)</td>
</tr>
</tbody>
</table>

**Weight**
- 4.1 kg (9 lbs)

**Power supply**
- 100–240 V, 50/60 Hz

**Lamp**
- 29 W

**Power consumption**
- 335 (13-3/16) x 329 (12-15/16)

**Speaker output**
- 10 W, mono

**Operation time**
- PT-TW341R: 2000 hr

**Display resolution**
- H: 1920 pixels, V: 1080 pixels

**Contrast**
- 5,000:1 (all white/black) (RGB signal input, Color mode: Dynamic, Lamp power: Normal)

**Lamp life**
- 14,000 hr

**Lamp replacement cycle**
- 14,000 hr

**Lamp type**
- ET-LAH300, ET-LAH310

**Interactive function**
- Interactive pen

**Lens**
- Fixed zoom, Manual focus lens, F=1.8, f=6.08 mm, Throw Ratio: 0.46:1

**Color**
- NTSC4.43, PAL, SECAM, NTSC, PAL-M, PAL-N

**Input**
- D-sub HD 15-pin (female) × 1
- HDMI 19P (x 1)
- RJ-45 (x 1)

**Output**
- D-sub HD 15-pin (female) × 1
- HDMI 19P (x 1)
- RJ-45 (x 1)

**Connection**
- LAN

**Supplied accessories**
- Wireless remote control unit, Power cord (x 2), USB cable (4.5 m), Interactive pen (x 2), Instruction manual, CD-ROM (x 1)

**Operating environment**
- Temperature: 5 °C–40 °C (41 °F–104 °F) [Less than 1,400 m (4,500 ft)], 5 °C–35 °C (41 °F–95 °F) [Less than 1,400–2,700 m (4,500–8,800 ft)]

**Operating hours and lamp life**
- Lamp life: 14,000 hr

**Lamp replacement cycle**
- 14,000 hr

**Lamp replacement cycle**
- 14,000 hr

**NOTES ON USE**

1. The projector uses a high-voltage mercury lamp under high internal pressure. This lamp may break, emitting a popping sound, or fail to illuminate, due to impact or extended use.
2. The high-voltage lamp becomes very hot during operation. Please observe the following precautions:
   - Make sure there is an unobstructed space of 1,000 mm (3.3 ft) or more around the projector's exhaust openings.
   - Do not place objects on top of the projector while it is in operation.
   - The projector uses a high-voltage mercury lamp under high internal pressure. This lamp may break, emitting a popping sound, or fail to illuminate, due to impact or extended use.
3. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.
4. Due to natural characteristics of lamps, screen brightness may fluctuate. This is not an indication of faulty lamp performance.
5. The brightness of the lamp will gradually decrease with use.
6. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.

**Weights and dimensions**

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. This product may be used to report control export regulations. The projection distances and throw ratios given in this brochure are for use only as guidelines. For more detailed information, please consult the dealer from whom you are purchasing the product. The PJLink trademark is an application trademark in Japan, the United States, and other countries and regions or registered trademark of PJLink, LLC. Crestron Connected™ is a registered trademark of Crestron Electronics, Inc. All other trademarks are the property of their respective trademark owners. Projected images simulated.

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All information included here is valid as of January 2014.