### Notes on Use

- Make sure there is an unobstructed space of 1000 mm (3 ft 3 in) or more around the projector's exhaust openings.

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### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>LB412G1</th>
<th>LB360G1</th>
<th>LB332G1</th>
<th>LB300G1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>PT-LB412G1</td>
<td>PT-LB360G1</td>
<td>PT-LB332G1</td>
<td>PT-LB300G1</td>
</tr>
<tr>
<td><strong>Brand</strong></td>
<td>Panasonic</td>
<td>Panasonic</td>
<td>Panasonic</td>
<td>Panasonic</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>LCD Projector</td>
<td>LCD Projector</td>
<td>LCD Projector</td>
<td>LCD Projector</td>
</tr>
<tr>
<td><strong>Lamp</strong></td>
<td>300 W</td>
<td>300 W</td>
<td>300 W</td>
<td>300 W</td>
</tr>
<tr>
<td><strong>Lamp Life</strong></td>
<td>5000 h</td>
<td>6000 h</td>
<td>8000 h</td>
<td>8000 h</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>3800 lm</td>
<td>3300 lm</td>
<td>3600 lm</td>
<td>3100 lm</td>
</tr>
<tr>
<td><strong>Contrast Ratio</strong></td>
<td>10,000:1</td>
<td>10,000:1</td>
<td>10,000:1</td>
<td>10,000:1</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>1024 × 768</td>
<td>1024 × 768</td>
<td>1024 × 768</td>
<td>1024 × 768</td>
</tr>
<tr>
<td><strong>Display Method</strong></td>
<td>Active matrix method</td>
<td>Active matrix method</td>
<td>Active matrix method</td>
<td>Active matrix method</td>
</tr>
<tr>
<td><strong>Screen Size</strong></td>
<td>786,432 pixels (1,024 × 768 pixels)</td>
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</tr>
<tr>
<td><strong>Projection Distance</strong></td>
<td>21118</td>
<td>21118</td>
<td>21118</td>
<td>21118</td>
</tr>
<tr>
<td><strong>Throw Ratio</strong></td>
<td>1.48–1.78:1</td>
<td>1.48–1.78:1</td>
<td>1.48–1.78:1</td>
<td>1.48–1.78:1</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>Manual focus lens</td>
<td>Manual focus lens</td>
<td>Manual focus lens</td>
<td>Manual focus lens</td>
</tr>
<tr>
<td><strong>Zoom Ratio</strong></td>
<td>1.2 ×</td>
<td>1.2 ×</td>
<td>1.2 ×</td>
<td>1.2 ×</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>3.3 kg</td>
<td>3.3 kg</td>
<td>3.3 kg</td>
<td>3.3 kg</td>
</tr>
<tr>
<td><strong>Supplied Accessories</strong></td>
<td>Remote control, Batteries (2xAAA), RGB signal cable (1x), Power cord (2x)</td>
<td>Remote control, Batteries (2xAAA), RGB signal cable (1x), Power cord (2x)</td>
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</tr>
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### Notes on Use

- Make sure there is an unobstructed space of 1000 mm (3 ft 3 in) or more around the projector's exhaust openings. Ensure there is sufficient ventilation to prevent hot air from the exhaust openings being re-circulated.

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### Notes on Use

- Caution: If the projector is placed in a box or enclosure, the temperature of the air surrounding the projector must match the operating environment temperature. In addition, ensure the exhaust openings are not blocked.

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Bright, Easy to Use, Mobile, and Reliable for 10,000 Hours

The compact PT-LB412 Series projectors are bright, easy to use, mobile, and reliable—ideal for educational and corporate users. They feature a long-life lamp and filter with a replacement cycle of 10,000 hours* and optional wireless projection** capability.

* The maximum replacement cycle of the lamp when the lamp control is set to Eco2, and also the maximum replacement cycle of the filter. Both replacement cycles are affected by the usage environment. 8,000-hour lamp/filter replacement cycle in Eco2 mode for the PT-LB300/LB280.

** The optional ET-WML100 Wireless Module is required. Wireless projection is only compatible with the PT-LB412/LB412U.

Excellent Performance in a Compact Body

- High Brightness and High Contrast in a Light-weight Body
  - A brightness level ranging from 2,800 lm* to 4,100 lm* and contrast ratio of 10,000:1** have been achieved in a compact lightweight body. Clear and bright images enhance the learning and working experience.

- Replacement Cycle of Lamp and Air Filter Became Longer
  - Normal 10,000 hours
    - Lamp Mode: 6,000 hours
    - Normal: 5,000 hours

Daylight View Lite

The Daylight View Lite function can be activated from the remote control for easy and comfortable viewing during presentations and lectures in a bright room.

Quiet 28 dB** Design Helps to Hold Viewers' Attention

The noise level is as low as 28 dB.* This helps your audience to keep their attention on the discussion or on the screen images during quiet scenes.

4:3 Aspect Ratio

- Normal
  - 90˝ (2.142 m) [5.08]
  - 14.9˝ (0.394 m) [0.653]
  - 11.9˝ (0.305 m) [0.603]
  - 9.9˝ (0.251 m) [0.51]
- Eco2
  - 6.9˝ (0.174 m) [0.452]
  - 3.5˝ (0.089 m) [0.227]

1.2x Zoom Lens Allows Flexible Installation

The 1.2x zoom lens lets the projector support a wide range of projection distances.

Easy Lamp and Filter Replacement

For easier maintenance, you can replace the lamp from the top and the air filter from the side, even after the projector is installed on the ceiling. This eliminates the need to detach the projector from its mounting bracket in ceiling-mounted applications.

Multiple Unit Monitoring Capability

Multi Projector Monitoring and Control Software is available for monitoring and controlling multiple Panasonic projectors from a single PC.

Variety of Useful Features

- Easy Wireless Projection by Optional Module
  - Simply inserting the optional ET-WML100 Wireless Module into the USB port on the projector makes easy wireless projection from Windows PCs, iOS devices, or Android devices on which the proper freeware is installed.
  - Projector Light for Windows PCs
    - Pictures, videos, and any documents including PDF files are displayed in the PC screen can be projected.
  - This image is from up to four PCs can be projected simultaneously.

- Memory Viewer Function
  - Just insert a USB memory device into the projector and start projection straight away. There is no need for a PC.

- USB Display Function for Easy Projection Using a USB Cable
  - USB Display outputs images and sounds from the computer by connecting to the USB port with a single USB cable.

- Equipped with an HDMI Input Terminal and Abundant Interfaces
  - Supports a wide range of system architectures. Includes an HDMI input terminal, two sets of computer input terminals, a monitor output terminals, and controlling multiple Panasonic projectors from a single PC.

Projection Distance

- Projection distance unit: feet [meters]
- The PT-LB412/LB412U is with 1.2x zoom lens (0.97:1 to 1.78:1).
- The PT-LB360/LB360U is with 1.2x zoom lens (0.97:1 to 1.78:1).

- PT-LB412 Series
  - 2,800 lm
  - 3,800 lm
  - 4,100 lm
- PT-LB382 Series
  - 3,100 lm
  - 3,600 lm
  - 4,000 lm
- PT-LW362 Series
  - 2,900 lm
  - 3,300 lm
  - 3,800 lm
- PT-LB300 Series
  - 2,100 lm
  - 2,500 lm
  - 3,000 lm
- PT-LB280 Series
  - 2,000 lm
  - 2,500 lm
  - 3,000 lm

Eco-friendly

- 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.
- **Compliant with RoHS directive" ETPS/01-0-2008."
NOTES ON USE

Do not install the projector in locations that are subject to excessive water, humidity, steam or oily smoke. Doing so may result in fire, malfunction or electric shock.

* The filter cover shown in the photo is not included.

2. The high-wattage lamp becomes very hot during operation. Please observe the following precautions:

- Do not look directly into the light source. The irresistible brightness may damage your eyes.
- Do not touch the lamp housing. The surface may become very hot.
- Do not move the projector while the lamp is heating up or cooling down.
- Do not turn the projector on and off rapidly.
- Do not expose the lamp to water or dust.
- Do not transport the projector using the lamp as a handle.
- Do not place anything on the lamp housing.

Operating environment temperature: Normal use: 5 °C (41 °F) to 30 °C (86 °F) (Elevation: 2,700 m (8,858') – 3,000 m (9,843'); [Highland]: [On 2])

Operating environment humidity: 20–80 % (no condensation)

Normal: 37 dB, Eco1: 33 dB, Eco2: 28 dB

Power consumption: 300 W (6 W when Standby mode set to Normal, 0.5 W when Standby mode set to Eco* 1)

Panasonic Visual System Solutions web site-
panasonic.net/avc/projector

Frame rate

fH: 67.50 kHz, f V: 60 Hz [1125 (1080)/60p], f H: 56.25 kHz, f V: 50 Hz [1125 (1080)/50p], f H: 28.13 kHz, f V: 25 Hz [1125 (1080)/25p], f H: 27.00 kHz, f V: 24 Hz [1125 (1080)/24p], f H: 27.00 kHz, f V: 48 Hz [1125 (1080)/24sF], f H: 33.75 kHz, f V: 30 Hz [1125 (1080)/30p], f H: 45.00 kHz, f V: 60 Hz [750 (720)/60p], f H: 37.50 kHz, f V: 50 Hz [750 (720)/50p], f H: 33.75 kHz, f V: 60 Hz [1125 (1080)/60i], f H: 28.13 kHz, f V: 50 Hz [1125 (1080)/50i], f H: 27.00 kHz, f V: 50 Hz [1125 (1080)/50sF], f H: 33.75 kHz, f V: 50 Hz [1125 (1080)/60sF], f H: 60.00 kHz, f V: 60 Hz [750 (720)/60i], f H: 37.50 kHz, f V: 50 Hz [750 (720)/50i], f H: 33.75 kHz, f V: 60 Hz [1125 (1080)/60sF], f H: 28.13 kHz, f V: 50 Hz [1125 (1080)/50sF]

Screen size

786,432 (1,024 × 768) pixels

Dimensions

335 mm × 96 mm (when legs at shortest position) × 252 mm

Approval of the lamp for the projector and lamp replacement cycle is the maximum value, at which lumiance will become 50 %. The usage control using the serial terminal. *2 The value for the recommended lamp replacement cycle is the maximum value, at which lumiance will become 70 %.

Projector Mount Bracket: ET-PKL420B, Ceiling Mount Bracket (for high ceilings): ET-PKL100H, Ceiling Mount Bracket (for low ceilings): ET-PKL100S

• Wireless remote control unit (× 1)    • Power cord (× 1) (× 2 for A model only)    • CD-ROM (× 1) ··· Instruction manual, Multi Projector Monitoring and Control Software* 5    • Instruction manual (Basic guide)

All information included here is valid as of August 2015.

Panasonic — Your satisfaction is our priority. If you have any questions, please contact your local Panasonic dealer.

For more information about Panasonic projectors, please visit:
Projector Online Site: panasonic.net/avc/projector
Facebook: www.facebook.com/panasonicprojector
Twitter: www.twitter.com/panasonicprojector

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http://panasonic.net/avc/visual_system/

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PT-LB412G1 Printed in Japan.