**NOTES ON USE**

**Caution**

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.

**D-sub/S-Video Conversion Cable**

- If the projector is placed in a box or enclosure, the temperature of the air surrounding the projector must match the temperature of the air inside.
- Make sure there is an unobstructed space of 1000 mm (3 ft 3 in) or more around the projector's exhaust openings.

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

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.

**Optional accessories**

- Wireless Module
- D-SUB/S-Video Conversion Cable: ET-ADSV
- LAL600 Wireless Module
- AV cable, HDMI cable, Audio cable
- Power cord (× 2) 1.5 m (5 ft)
- Power cord safety hook
- CD-ROM (× 1) ··· Logo Transfer Software
- Batteries for remote control (R03/LR03/AAA type battery (× 2))
- RGB signal cable (× 1)
- Ceiling/floor, front/rear
- Lightweight carry bag

**Specifications**

- **Model:** PT-SX320AG1
- **Screen size:** 0.84–7.62 m (33–300 inches) diagonally
- **Resolution:** 1,024 × 768 pixels (Input signals that exceed this resolution will be converted to 1,280 × 800 pixels.)
- **Brightness:** 3,000 lumens
- **Contrast:** 2,000:1
- **Power consumption:** 295 W (0.5 W when STANDBY MODE set to ECO, 8W when STANDBY MODE set to Normal.)
- **Input signals:**
  - Y/C: Y: 1.0 Vp-p (including sync signal), P B/PR: 0.7 Vp-p, 75 ohms
  - YPbPR: Y: 1.0 Vp-p, 75 ohms, P B/PR: 0.7 Vp-p, 75 ohms (SYNC IN GREEN: 1.0 Vp-p, 75 ohms), SYNC/HD: TTL high impedance, automatic positive/negative polarity compatible, VD: TTL high impedance, automatic positive/negative polarity compatible
  - HDMI: 19-pin × 1, Deep Color, compatible with HDCP, Audio signal: Linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)
  - RGB: D-sub 9-pin (female) × 1 For external control (RS-232C compatible)
  - AUDIO IN: Pin jack × 1, 1.0 Vp-p, 75 ohms

**Weights and dimensions**

- **Weight:** Approx. 2.3 kg (5.1 lbs)
- **Dimensions (W × H × D):** 307 mm × 80 mm (when legs at shortest position) × 210 mm (12-3/32 × 3-5/32 × 8-1/4 inches)

**Caution**

- Do not place objects on top of the projector while it is in operation. Please refer to the Installation Instructions for the position of the exhaust openings.
- If the projector is operated in a location that exceeds the operating temperature listed in the specifications table during use, also, make sure the projector's intake and exhaust openings are not blocked. Ensure there is sufficient ventilation to prevent hot air from the exhaust openings being recirculated.

**Operating environment**

- **Temperature:** Normal use: 0 °C (32 °F) to 40 °C (104 °F) (Elevation: below 1,400 m (4,593 ft); When the ambient operating temperature is 35–40 °C (95–104 °F), [Lamp Power] will switch automatically to [Eco mode].)
- **Humidity:** 20–80 % (no condensation)
- **Ambient light:** Brightness: 100 lux (1,000 fc)
- **Operating noise:** Above 250 cc min.

**Power**

- **Power supply:** 100–240 V, 50/60 Hz
- **Power consumption:** 295 W (0.5 W when STANDBY MODE set to ECO, 8W when STANDBY MODE set to Normal.)

**Lamp**

- **Lamp:** 230 W UHM lamp
- **Lamp life:** 4000 h/Eco: 5000 h (This value is calculated by continuously turning the lamp on for 3.5 hours and off for 0.5 hours.)
- **Brightness:** 3,000 lumens
- **Contrast:** 2,000:1
- **Power consumption:** 295 W (0.5 W when STANDBY MODE set to ECO, 8W when STANDBY MODE set to Normal.)

**Optical engine**

- **Type:** 6-segment color wheel
- **Lamp control:** Normal, Image mode: Dynamic, Auto Powersave: Off
- **Horizontal/Vertical Keystone:** ± 40°
- **Keystone correction range:** ± 40°
- **Contrast range:** Dynamic
- **Center-to-corner uniformity:** 80 %
- **Color reproducibility:** 1024:1
- **Color matrix:** 1024:1
- **Video/S-Video**
  - Y: 1.0 Vp-p (including sync signal), P B/PR: 0.7 Vp-p, 75 ohms
  - YPbPR: Y: 1.0 Vp-p, 75 ohms, P B/PR: 0.7 Vp-p, 75 ohms (SYNC IN GREEN: 1.0 Vp-p, 75 ohms), SYNC/HD: TTL high impedance, automatic positive/negative polarity compatible, VD: TTL high impedance, automatic positive/negative polarity compatible
- **HDMI**
  - 19-pin × 1, Deep Color, compatible with HDCP, Audio signal: Linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)
- **RGB**
  - D-sub 9-pin (female) × 1 For external control (RS-232C compatible)
  - AUDIO IN: Pin jack × 1, 1.0 Vp-p, 75 ohms

**Dimensions**

- **Width:** 307 mm (12-3/32 inches)
- **Depth:** 210 mm (8-1/4 inches)
- **Height:** 80 mm (3-5/32 inches)

For more information about Panasonic projectors, please visit:

Facebook – panasonic.net/avc/projector

YouTube – panasonic.net/avc/projector

Panasonic Projectors and Professional Displays, please visit:

http://panasonic.net/avc/projector/
Excellent Performance and Flexibility in a Compact Body

The PT-SX320A Series are stylish, compact projectors for corporate users. They provide the ideal level of brightness for use in brightly lit places. They also offer wireless option* and other excellent functions.

- Easy Operation
  Comer Keystone Correction 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 keystoning correction.
  Curved Screen Correction
  Barrel and pincushion distortions are easily corrected when projecting onto a curved screen.

- Flexible Usability
  Easy Wireless Projection by Optional Module
  Simply inserting the optional ET-WML100E Wireless Module into the USB port on the projector enables easy wireless projection from Windows PCs, iOS devices, or Android devices on which the proper freeware is installed.
  Presenter Light 1.0 for Windows® PCs
  Proper freeware is installed.
  Easy Wireless Projection by Optional Module
  Simply inserting the optional ET-WML100E Wireless Module into the USB port on the projector allows wireless projection from up to four PCs, iOS devices, or Android devices.
  Easy Lamp and Filter Replacement
  For easier maintenance, you can replace the lamp from the top of the unit and the air filter from the side, even after the projector is installed on the ceiling.
  Memory Viewer Light Function
  Just insert a USB memory device into the projector and start projection straight away. There is no need for a PC. JPEG, BMP, PNG, GIF, and TIFF images can be projected.

- Excellent Performance
  Daylight View Basic
  This function ensures easy, comfortable viewing of presentations in bright rooms. Using a built-in ambient light sensor, it adjusts halftone colors and brightness levels to match ambient lighting.

- Easy to Carry
  Proportion distance (L) (4:3 aspect ratio)
  without Daylight View Basic
<table>
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<th>300˝</th>
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<th>120˝</th>
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<td>28.6</td>
<td>23.1</td>
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<td>9.6</td>
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<td>307</td>
<td>250</td>
<td>200</td>
<td>120</td>
<td>80</td>
<td>60</td>
<td>50</td>
</tr>
</tbody>
</table>

- Other Useful Features

- Resistance to Sudden Voltage Fluctuations

- Other Features
  Whiteboard Mode
  Startup logo
  Built-in 1 W speaker
  Security bar for theft prevention
  Ecology-conscious design
  No tin-lead solder is used in the cabinet
  Coating-free cabinet for easy recycling
  Switchable lamp model

- Intelligible Power Management Function

- Projected image

- Image size

- Easy projection from a wireless device

* The optional ET-WML100E Wireless Module is required.
NOTES ON USE

ÉT-D-sub/S-Video Conversion Cable

• Never place objects on top of the projector while it is in operation.

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

3. Do not touch the lamp housing immediately after use. The lamp becomes hot while in use. Do not touch the lamp housing immediately after use.

4. Due to natural characteristics of lamps, screen brightness may fluctuate. This is not an indication of faulty lamp performance.

5. Do not look directly into the beam of light. Be especially careful when operating the projector at high outdoor locations.

6. When changing the lamp, please detach it by turning it counterclockwise. Please refer to the Instructional Procedures in this manual.

7. Be careful not to open or close the lens cover when the lamp is on. This can cause the lamp to break.

8. The lamp is a consumable item. Please replace the lamp after the lamp replacement cycle is reached. The lamp replacement cycle is indicated in the specifications section of this manual.

9. Lamp replacement cycle

Normal: 4000 h/Eco: 5000 h (This value is calculated by continuously turning the lamp on for 3.5 hours and off for 0.5 hours.)

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21. Lamp replacement cycle

Normal: 4000 h/Eco: 5000 h (This value is calculated by continuously turning the lamp on for 3.5 hours and off for 0.5 hours.)

22. When changing the lamp, please detach it by turning it counterclockwise. Please refer to the Instructional Procedures in this manual.

23. Be careful not to open or close the lens cover when the lamp is on. This can cause the lamp to break.

24. The lamp is a consumable item. Please replace the lamp after the lamp replacement cycle is reached. The lamp replacement cycle is indicated in the specifications section of this manual.

25. Lamp replacement cycle

Normal: 4000 h/Eco: 5000 h (This value is calculated by continuously turning the lamp on for 3.5 hours and off for 0.5 hours.)

26. When changing the lamp, please detach it by turning it counterclockwise. Please refer to the Instructional Procedures in this manual.

27. Be careful not to open or close the lens cover when the lamp is on. This can cause the lamp to break.

28. The lamp is a consumable item. Please replace the lamp after the lamp replacement cycle is reached. The lamp replacement cycle is indicated in the specifications section of this manual.

29. Lamp replacement cycle

Normal: 4000 h/Eco: 5000 h (This value is calculated by continuously turning the lamp on for 3.5 hours and off for 0.5 hours.)

30. When changing the lamp, please detach it by turning it counterclockwise. Please refer to the Instructional Procedures in this manual.

31. Be careful not to open or close the lens cover when the lamp is on. This can cause the lamp to break.

32. The lamp is a consumable item. Please replace the lamp after the lamp replacement cycle is reached. The lamp replacement cycle is indicated in the specifications section of this manual.

33. Lamp replacement cycle

Normal: 4000 h/Eco: 5000 h (This value is calculated by continuously turning the lamp on for 3.5 hours and off for 0.5 hours.)

34. When changing the lamp, please detach it by turning it counterclockwise. Please refer to the Instructional Procedures in this manual.

35. Be careful not to open or close the lens cover when the lamp is on. This can cause the lamp to break.

36. The lamp is a consumable item. Please replace the lamp after the lamp replacement cycle is reached. The lamp replacement cycle is indicated in the specifications section of this manual.

37. Lamp replacement cycle

Normal: 4000 h/Eco: 5000 h (This value is calculated by continuously turning the lamp on for 3.5 hours and off for 0.5 hours.)

38. When changing the lamp, please detach it by turning it counterclockwise. Please refer to the Instructional Procedures in this manual.

39. Be careful not to open or close the lens cover when the lamp is on. This can cause the lamp to break.

40. The lamp is a consumable item. Please replace the lamp after the lamp replacement cycle is reached. The lamp replacement cycle is indicated in the specifications section of this manual.

41. Lamp replacement cycle

Normal: 4000 h/Eco: 5000 h (This value is calculated by continuously turning the lamp on for 3.5 hours and off for 0.5 hours.)