

# Panasonic

ideas for life

PT-LB60U  
Micro Portable XGA LCD Projector

3200 lm XGA



## Presentations in Light



- Daylight View 2 technology
  - Looks max. 50% brighter\*<sup>1</sup>
  - Vivid colors in a bright room
  - Auto operation with ambient light sensor (ALS)
- High power and portability
  - Bright 3,200 lumens
  - Ultra-lightweight: 5.5 lbs/2.5 kg
  - Slim and compact design: 3-1/4" (83-mm) thickness\*<sup>2</sup>
- Quick operation
  - 2-second speed start
  - Auto search
  - Real-time keystone correction
  - Operation assistance
  - Direct power off

\*<sup>1</sup> Comparison with Daylight View 2 turned On and Off, using an 80-inch screen and ordinary meeting room lighting of 400 lux. (Screen gain: 2.6)

\*<sup>2</sup> Legs and protruding parts not included.

# Sharp Images in Brightly Lit Rooms

The PT-LB50U incorporates Panasonic's original Daylight View 2 technology, which makes images easy to see even in brightly lit rooms. Also, the PT-LB50U is built for exceptional portability, quick and easy operation.



## Daylight View 2 Technology

### Looks max. 50% brighter

Panasonic's Daylight View 2 technology, which helps project sharp, crisp images that are easy to see even in brightly lit rooms. A built-in sensor measures the ambient light, and the halftone colors and brightness level are adjusted accordingly in real-time. Viewing brightness is increased by as much as 50%\*1.



Simulated image when the Daylight View 2 is turned off.



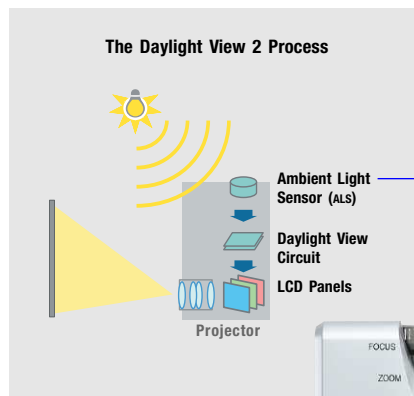
Simulated image when the Daylight View 2 is turned on.

### Vivid colors in a Bright Room

Panasonic designed and adjusted its projector image display based on use in a well-lit room in developing Daylight View technology. This technology greatly improves color perception in bright rooms. Pale colors are divided into six basic color components (red, green, blue, yellow, cyan and magenta) for more precise control. Daylight View achieves a superb level of image performance that produces less of a difference between PC display images and projected images.

### Ambient Light Sensor

The top panel of the unit is equipped with an ambient light sensor (ALS). The ALS detects changes in the ambient light intensity and optimizes color compensation in four steps according to the environment. The Daylight View mode also provides white balance adjustment settings for both fluorescent and incandescent lamps to match the room lighting.





The volume of the sound, from the built-in speaker or external speakers connected to the audio output terminal, can be adjusted using the supplied remote control. The remote control also features pointer control functions.



Front view



Rear view

A total of three independent audio inputs are provided for PC 1, PC 2 and S-Video/Video.

## High Power and Portability

### Powerful 3,200-Lumen Projectors

Thanks to a high-performance optical system and high-efficiency 220-W UHM™ lamp, the PT-LB60U delivers super-bright pictures with 3,200 lumens brightness. Sharp, crisp images are easy to see.

### Ultra-Lightweight and Compact

Weighing only 5.5 pounds, the PT-LB60U is easy to carry even with a laptop. Also, it packs powerful functions into a compact body—12-27/32" wide by 9-5/32" deep and only 3-1/4" high.

## Quick Operation

### Two-Second Speed Start

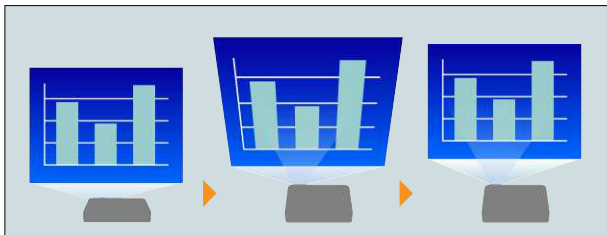
With Speed Start, the image appears in about two seconds after you press the power button.

### Auto Search

When a source is connected and you switch the unit on, it automatically detects what kind of source is connected and begins projection.

### Real-Time Keystone Correction

The projector automatically senses if you adjust its angle (vertical direction) during operation and instantly makes whatever keystone correction is necessary for optimum viewing.



### Direct Power Off

You can disconnect the power cable and move the projector as soon as your presentation is finished, because the cooling fan keeps operating until the lamp is cooled. For fixed installation systems, this means you can turn off the room's main power without waiting for the projector to cool down.



## Other Features

- Operation assistance
- Short-throw zoom lens
- Anti-theft features: User password, control panel lock and text superimposing
- Projector AI
- Index Window
- Auto power off
- Two RGB inputs
- RGB 2 IN can be switched to RGB 1 OUT for loop-through monitoring
- HDTV compatibility
- Full compatibility with sRGB color space for accurate color reproduction (in natural mode)
- Picture mode selection (standard/dynamic/ natural)
- Blackboard mode allows you to project images onto an ordinary classroom or conference room blackboard
- 3x digital zoom
- Shutter function for image/sound muting
- Selectable 17-language on-screen menu
- Ceiling mountable (option)



Optional ceiling mount bracket:ET-PKB30

\*1 Comparison with Daylight View 2 turned On and Off, using an 80-inch screen and ordinary meeting room lighting of 400 lux. (Screen gain: 2.6)

## Specifications

<b>Power supply</b>	100–240 V AC, 50/60 Hz
<b>Power consumption</b>	300 W (Approx. 3 W in standby mode with fan stopped)
<b>LCD panel</b>	4:3 aspect ratio
<b>Panel size</b>	0.8" (20.32 mm) diagonal
<b>Display method</b>	Transparent LCD panel (x 3, R/G/B)
<b>Drive method</b>	Active matrix
<b>Pixels</b>	786,432 (1,024 x 768) x 3, total of 2,359,296 pixels
<b>Pixel configuration</b>	Stripe
<b>Lens</b>	Manual zoom (1:1–1:1.2), manual focus, F 1.7–1.8, f 24.0–28.8 mm
<b>Lamp</b>	220 W UHM™ lamp
<b>Colors</b>	Full color (16,777,216 colors)
<b>Brightness</b>	3,200 lumens
<b>Contrast</b>	400:1*1 (full on/full off)
<b>Scanning frequency</b>	
<b>RGB</b>	Horizontal: 15–91 kHz, Vertical: 50–85 Hz
<b>YPbPr</b>	480i (525i): f <sub>H</sub> 15.75 kHz; f <sub>V</sub> 60 Hz 576i (625i): f <sub>H</sub> 15.63 kHz; f <sub>V</sub> 50 Hz 480p (525p): f <sub>H</sub> 31.5 kHz; f <sub>V</sub> 60 Hz 576p (625p): f <sub>H</sub> 31.25 kHz; f <sub>V</sub> 50 Hz 720p (750p): f <sub>H</sub> 45 kHz; f <sub>V</sub> 60 Hz 1080i (1125i): f <sub>H</sub> 33.75 kHz; f <sub>V</sub> 60 Hz 1080p (1125p): f <sub>H</sub> 28.125 kHz; f <sub>V</sub> 50 Hz
<b>S-Video/Video</b>	NTSC, NTSC4.43, PAL-M, PAL60: f <sub>H</sub> 15.75 kHz; f <sub>V</sub> 60 Hz PAL, SECAM, PAL-N: f <sub>H</sub> 15.63 kHz; f <sub>V</sub> 50 Hz
<b>Projection size</b>	33–300 inches/838–7,620 mm diagonally
<b>Throw distance</b>	3'7"–36'5" (1.1 m–11.1 m)
<b>Optical axis shift</b>	6:1 (fixed)
<b>Keystone correction range</b>	Vertical: ±30°
<b>On-screen menu</b>	17 languages: English, French, German, Spanish, Italian, Korean, Russian, Chinese, Japanese, Swedish, Norwegian, Danish, Portuguese, Polish, Hungarian, Czech, and Thai
<b>Installation</b>	Front/rear ceiling/desk (menu selection)
<b>Built-in speakers</b>	1-9/16" x 1-3/16" (4 x 3 cm) x 1 (oval), 1.0 W (monaural) output power
<b>Terminals</b>	
<b>PC 1 IN</b>	D-sub HD 15-pin x 1
<b>RGB signal</b>	R, G, B: 0.7 Vp-p, 75 ohms, Sync on green: 1.0 Vp-p, 75 ohms HD/SYNC, VD: TTL (positive/negative polarity compatible)
<b>YPbPr signal</b>	Y: 1.0 Vp-p (including sync signal), 75 ohms; Pb, Pr: 0.7 Vp-p, 75 ohms
<b>PC 2 IN/PC 1 OUT</b>	D-sub HD 15-pin x 1 (input/output selec- table using on-screen menu)
<b>RGB signal</b>	R, G, B: 0.7 Vp-p, 75 ohms, Sync on green: 1.0 Vp-p, 75 ohms HD/SYNC, VD: TTL (positive/negative polarity compatible)
<b>YPbPr signal</b>	Y: 1.0 Vp-p (including sync signal), 75 ohms; Pb, Pr: 0.7 Vp-p, 75 ohms

<b>VIDEO IN</b>	RCA pin x 1, 1.0 Vp-p, 75 ohms
<b>S-VIDEO IN</b>	Mini DIN 4-pin x 1, Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms
<b>AUDIO IN</b>	RCA (L-R) x 1, 0.5 Vrms (for VIDEO/S-VIDEO)
<b>PC 1 AUDIO IN</b>	M3 (stereo) x 1, 0.5 Vrms
<b>PC 2 AUDIO IN</b>	M3 (stereo) x 1, 0.5 Vrms
<b>AUDIO OUT</b>	M3 (stereo) x 1, 0–2.0 Vrms (variable)
<b>SERIAL</b>	Mini DIN 8-pin x 1 (RS-232C)
<b>Power cord length</b>	6'7" (2 m)
<b>Cabinet material</b>	Molded material (ABS/PC)
<b>Dimensions** (W x H x D)</b>	12-27/32" x 3-1/4" x 9-5/32" (327 x 83 x 233 mm)
<b>Weight</b>	5.5 lbs. (2.5 kg)
<b>Operating environment</b>	
<b>Temperature</b>	0°–40°C (32°–104°F)
<b>Humidity</b>	20%–80% (no condensation)
<b>Remote Control Unit</b>	
<b>Power supply</b>	3 V DC (AAA battery x 2)
<b>Operation range**3</b>	Approx. 7 m (23 feet) when operated from directly in front of the signal receptor
<b>Dimensions (W x H x D)</b>	2" x 4-13/16" x 13/16" (51.5 x 123 x 2.11 mm)
<b>Weight</b>	2.6 ozs. (74 g) (including batteries)

### Supplied Accessories

- Power cord
- Wireless remote control
- Batteries for remote control
- VGA cable
- Lens cover
- Carrying bag
- Wireless Manager ME 3.0 (CD-ROM)

### Optional Accessories

ET-LAB30	Replacement lamp unit
ET-PKB30	Ceiling mount bracket
ET-RM300	Full-function wireless remote control
ET-ADSER	Serial adapter (DIN 8-pin/D-sub 9-pin)

\*1: In All mode.

\*2: Legs and protruding parts not included.

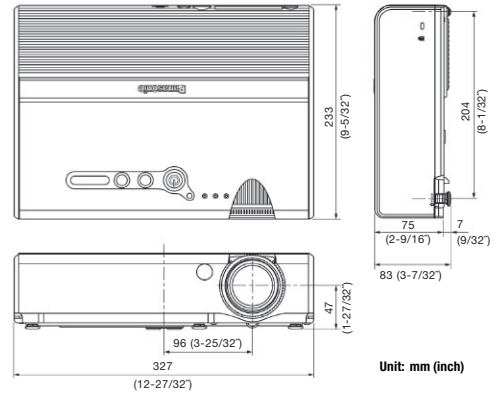
\*3: Operation range differs depending on the environment.

## Ecology-Conscious Design

Panasonic works from every angle to minimize environmental impact in the product design, production and delivery processes, and in the performance of the product itself over its life cycle. The PT-LB60U reflects the following ecological considerations.

- Lead-free solder is used to mount components to the printed circuit boards.
- No halogenated flame retardants are used in the cabinet.
- No styrofoam is used in the packing materials.
- Lead-free glass is used for the lens.
- The packing case and operating manual are made from recycled paper.

## Dimensions



## Projection Distance

Diagonal image size (4:3 aspect ratio)	Distance to screen (L)			Height from the edge of screen to center of lens
	min.	recommended*	max.	
33" / 0.84 m / 2.7'	—	—	1.1 m / 3.6'	5 cm / 2.0"
40" / 1.02 m / 3.3'	1.2 m / 3.9'	1.4 m / 4.6'	1.4 m / 4.6'	8 cm / 3.1"
50" / 1.27 m / 4.2'	1.5 m / 4.9'	1.7 m / 5.6'	1.7 m / 5.6'	11 cm / 4.3"
60" / 1.52 m / 4.9'	1.8 m / 5.9'	2.1 m / 6.9'	2.1 m / 6.9'	13 cm / 5.1"
70" / 1.78 m / 5.8'	2.1 m / 6.9'	2.5 m / 8.5'	2.5 m / 8.5'	15 cm / 6.3"
80" / 2.03 m / 6.7'	2.4 m / 7.9'	2.8 m / 9.2'	2.8 m / 9.2'	17 cm / 6.7"
90" / 2.29 m / 7.5'	2.7 m / 8.9'	3.2 m / 10.5'	3.2 m / 10.5'	19 cm / 7.5"
100" / 2.54 m / 8.3'	3.0 m / 9.8'	3.5 m / 11.5'	3.5 m / 11.5'	21 cm / 8.3"
120" / 3.05 m / 10.0'	3.6 m / 11.8'	4.3 m / 14.1'	4.3 m / 14.1'	25 cm / 9.8"
150" / 3.81 m / 12.5'	4.6 m / 15.1'	5.4 m / 17.7'	5.4 m / 17.7'	32 cm / 12.6"
200" / 5.08 m / 16.7'	6.1 m / 20.0'	7.2 m / 23.6'	7.2 m / 23.6'	42 cm / 16.5"
250" / 6.35 m / 20.8'	7.6 m / 24.9'	9.0 m / 29.5'	9.0 m / 29.5'	53 cm / 20.9"
300" / 7.62 m / 25.0'	9.1 m / 29.9'	10.8 m / 35.4'	10.8 m / 35.4'	63 cm / 24.8"



Optional replacement  
lamp unit: ET-LAB30

### NOTES ON USE

- The projector uses a high-voltage mercury lamp that contains high internal pressure. This lamp may break, emitting a large sound, or fail to illuminate, due to impact or extended use. The length of time that it takes for the lamp to break or fail to illuminate varies greatly depending on individual lamp characteristics and usage conditions.
- The brightness of the lamp will gradually decrease with use.
- The lamp, LCD panel, polarizing plate, and polarizing beam splitter (PBS) are consumable parts. These parts may need to be replaced during the guarantee period if the projector is used for six or more hours per day.
- The replacement cycle of the LCD panel, polarizing plate, and polarizing beam splitter (PBS) will be shortened if the projector is subjected to continuous use for six or more hours. Likewise, the replacement cycle of the lamp will be shortened if the power is frequently turned on and off or the projector is subjected to continuous use for 10 or more hours.
- Interruptions may occur in the wireless connection due to signal interference or PC conditions.

# Panasonic®

Panasonic Projector Systems Company  
1-800-528-8601  
www.panasonic.com/projectors

**Headquarters**  
1 Panasonic Way, 4E-7  
Secaucus, NJ 07094  
201 392 6463

**Panasonic Canada Inc.**

5770 Ambler Drive  
Mississauga, Ontario  
Canada L4W 2T3  
905 624 5010

Please contact Panasonic or your dealer for a demonstration.

Weights and dimensions shown are approximate. Specifications are subject to change without notice. This product may be subject to export control regulations. UHM is a trademark of Matsushita Electric Industrial Co., Ltd. VGA and XGA are trademarks of International Business Machines Corporation. Windows and PowerPoint are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are the property of their respective trademark owners. Projection images simulated.  
PT-LB60U-06APR10K Printed in Japan.