# Panasonic
## ideas for life

PT-**LB50NT**U
**Micro Portable Wireless XGA LCD Projector**

PT-**LB50**U
**Micro Portable XGA LCD Projector**

PT-**LB50S**U
**Micro Portable SVGA LCD Projector**



# The World's Fastest
# Wireless Transmission Projectors

## Easy wireless projection (PT-LB50NTU)

- **World's fastest data transfer**\*¹
- **Wireless PC motion/sound streaming**\*²
- **Abundant wireless functions, including secondary display transmission and 16-window index style**
- **Simple, user-friendly settings**

## Daylight View 2 technology

- **Looks max. 50% brighter**\*³
- **Vivid colors in a bright room**
- **Auto operation with ambient light sensor (ALS)**

## High power and portability

- **Bright 2,000 lumens**
- **Ultra-lightweight: 4.0 lbs/4.2 lbs (1.8 kg/1.9 kg)**\*⁴
- **Slim and compact design: 2-1/4″ (57-mm) thickness**\*⁵

## Quick operation

- **2-second speed start**
- **Auto search**
- **Real-time keystone correction**
- **Operation assistance**
- **Direct power off**

There are no cables to connect, so projector setup is quick and easy, and you have full layout flexibility. Wireless Manager ME 3.0 software (provided) increases transmission speed by five times compared to our previous model\*⁶. You get fast, smooth, stress-free transmission even with large video files\*². You can copy Wireless Manager to a memory card and take it with you on a trip. This lets you enjoy wireless transmission even at presentation sites where the computer doesn't have the software\*⁷.
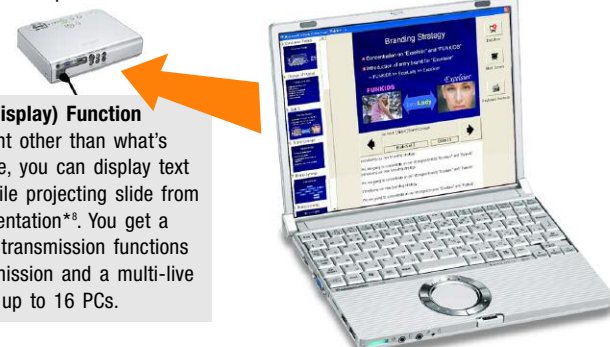
**Wireless Prompter (Secondary Display) Function**
This allows transmission of content other than what's displayed on your PC. For example, you can display text documents on your PC screen while projecting slide from your Microsoft® PowerPoint® presentation\*⁸. You get a host of other convenient wireless transmission functions too, such as area-specified transmission and a multi-live mode for simultaneous display of up to 16 PCs.
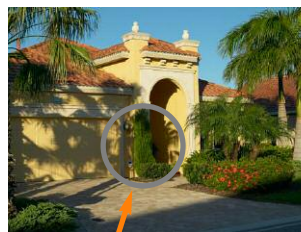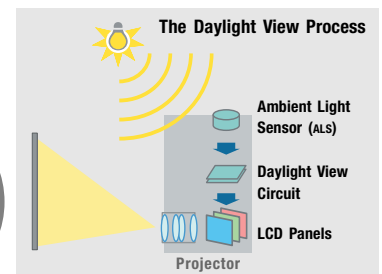
**Daylight View 2**
A built-in sensor measures the ambient light, and the halftone colors and brightness level are adjusted accordingly in real time. Viewing brightness is increased up to 150%\*³.

**The Daylight View Process**

- Ambient Light Sensor (ALS)
- Daylight View Circuit
- LCD Panels
- Projector

**Rear View**



## Specifications

| | |
|---|---|
| **Power supply** | 100–240 V AC, 50/60 Hz |
| **Power consumption** | 240 W (Approx. 2 W in standby mode with fan stopped) |
| **LCD panel** | 4:3 aspect ratio, micro lens array |
|     **Panel size** | 0.6″ (15.24 mm) diagonal |
|     **Display method** | Transparent LCD panel (x 3, R/G/B) |
|     **Drive method** | Active matrix |
|     **Pixels** | |
|     PT-LB50NTU/LB50U | 786,432 (1,024 x 768) x 3, total of 2,359,296 pixels |
|     PT-LB50SU | 480,000 (800 x 600) x 3, total of 1,440,000 pixels |
|     **Pixel configuration** | Stripe |
| **Lens** | Manual zoom (1:1–1:1.2), manual focus, F 1.6–1.9, f 18.8–22.6 mm |
| **Lamp** | 165 W UHM™ lamp |
| **Colors** | Full color (16,777,216 colors) |
| **Brightness** | 2,000 lumens |
| **Uniformity** | 85% |
| **Contrast** | 400:1*1 (full on/full off) |
| **Scanning frequency** | |
|     **RGB** | Horizontal: 15–91 kHz, Vertical: 50–85 Hz |
|     **YP$_B$P$_R$** | 480i (525i): f$_H$ 15.75 kHz; f$_V$ 60 Hz<br>576i (625i): f$_H$ 15.63 kHz; f$_V$ 50 Hz<br>480p (525p): f$_H$ 31.5 kHz; f$_V$ 60 Hz<br>576p (625p): f$_H$ 31.25 kHz; f$_V$ 50 Hz<br>720p (750p): f$_H$ 45 kHz; f$_V$ 60 Hz<br>1080i (1125i): f$_H$ 33.75 kHz; f$_V$ 60 Hz<br>1080i (1125i): f$_H$ 28.125 kHz; f$_V$ 50 Hz |
|     **S-Video/Video** | NTSC, NTSC4.43, PAL-M, PAL60: f$_H$ 15.75 kHz; f$_V$ 60 Hz<br>PAL, SECAM, PAL-N: f$_H$ 15.63 kHz; f$_V$ 50 Hz |
| **Projection size** | 33–300 inches/838–7,620 mm diagonally |
| **Throw distance** | |
|     PT-LB50NTU/LB50U | 3′7″–36′5″ (1.1 m–11.1 m) |
|     PT-LB50SU | 3′7″–35′9″ (1.1 m–10.9 m) |
| **Optical axis shift** | 6:1 (fixed) |
| **Keystone correction range** | Vertical: ±30° |

| | |
|---|---|
| **On-screen menu** | 17 languages: English, French, German, Spanish, Italian, Korean, Russian, Chinese, Japanese, Swedish, Norwegian, Danish, Portuguese, Polish, Hungarian, Czech, and Thai |
| **Installation** | Front/rear ceiling/desk (menu selection) |
| **Built-in speakers** | 1-9/16″ x 25/32″ (4 x 2 cm) x 1 (oval), 1.0 W (monaural) output power |
| **Terminals** | |
|     **PC 1 IN** | D-sub HD 15-pin x 1 |
|         **RGB signal** | 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) |
|         **YP$_B$P$_R$ signal** | Y: 1.0 Vp-p (including sync signal), 75 ohms; P$_B$, P$_R$: 0.7 Vp-p, 75 ohms |
|     **PC 2 IN/PC 1 OUT** | D-sub HD 15-pin x 1 (input/output selectable using on-screen menu) |
|         **RGB signal** | 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) |
|         **YP$_B$P$_R$ signal** | Y: 1.0 Vp-p (including sync signal), 75 ohms; P$_B$, P$_R$: 0.7 Vp-p, 75 ohms |
|     **VIDEO IN** | RCA pin x 1, 1.0 Vp-p, 75 ohms |
|     **S-VIDEO IN** | Mini DIN 4-pin x 1, Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms |
|     **AUDIO IN** | RCA (L, R) x 1, 0.5 Vrms (for VIDEO/S-VIDEO) |
|     **PC AUDIO IN** | M3 (L, R) x 1, 0.5 Vrms |
|     **AUDIO OUT** | M3 (L, R) x 1, 0–2.0 Vrms (variable) |
|     **SERIAL** | Mini DIN 8-pin x 1 (RS-232C) |
| **Power cord length** | 6′7″ (2 m) |
| **Cabinet material** | Moulded material (ABS/PC) |
| **Dimensions (W x H x D)** | 11-11/16″ x 2-1/4″ x 8-1/4″ (297 x 57 x 210 mm) |
| **Weight** | |
|     **PT-LB50NTU** | 4.2 lbs. (1.9 kg) |
|     **PT-LB50U/LB50SU** | 4.0 lbs. (1.8 kg) |
| **Operating environment** | |
|     **Temperature** | 32°–104°F (0°–40°C) |
|     **Humidity** | 20%–80% (no condensation) |

| | |
|---|---|
| **Remote Control Unit** | |
|     **Power supply** | 3 V DC (button battery x 1) |
|     **Operation range**\*2 | Approx. 23 feet (7 m) when operated from directly in front of the signal receptor |
|     **Dimensions (W x H x D)** | 2-1/16″ x 4-27/32″ x 13/16″ (52 x 123 x 21 mm) |
|     **Weight** | 2.6 ozs. (74 g) (including batteries) |
| **Wireless LAN (PT-LB50NTU)** | |
|     **Standard** | IEEE802.11b/g |
|     **Modulation** | |
|         **IEEE802.11b** | Direct sequence spread spectrum (DS-SS) system |
|         **IEEE802.11g** | Orthogonal frequency division multiplex (OFDM) system |
|     **Transmission system** | |
|         **IEEE802.11b** | CCK (11/5.5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps) |
|         **IEEE802.11g** | 64-QAM (54/48 Mbps), 16-QAM (36/24 Mbps), QPSK (18/12 Mbps), BPSK (9/6 Mbps) |
|     **Transmission speed** | |
|         **IEEE 802.11b** | 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps |
|         **IEEE 802.11g** | 54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps |
|     **Operation range**\*2 | Approx. 98′5″ (30 m) |
|     **Frequency range** | 2,412 MHz–2,462 MHz |
|     **Channels** | 1–11 ch |

**Supplied Accessories**
- Power cord
- Wireless remote control
- Batteries for remote control
- VGA cable
- Carrying bag
- Wireless Manager ME 3.0 (CD-ROM)\*3

**Optional Accessories**

| | |
|---|---|
| ET-LAB50 | Replacement lamp unit |
| ET-PKB50 | Ceiling mount bracket |
| ET-RM300 | Full-function wireless remote control |
| ET-ADSER | Serial adapter (DIN 8-pin/D-sub 9-pin) |

\*1: In AI mode.
\*2: Operation range differs depending on the environment.
\*3: For the PT-LB50NTU only.

---

**N O T E S   O N   U S E**
- 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.

**To use wireless functions, a PC is required that meets the conditions given below:**

| | |
|---|---|
| **OS:** | Microsoft® Windows® 2000 Professional, Windows® XP Professional, Windows® XP Home Edition |
| **CPU:** | Pentium® III or higher, or other compatible processor (1 GHz or higher is recommended). |
| **Memory:** | 256 MB or more |
| **Free hard disk space:** | 60 MB or more |
| **CD-ROM drive:** | CD-ROM drive or DVD drive |
| **Wireless LAN:** | IEEE 802.11b/g compatible (built-in wireless LAN system or external IEEE 802.11b/g LAN card must be installed and running normally.) However, some IEEE 802.11g/b wireless LAN may not allow connection to the projector. |
| **Web browser:** | Internet Explorer 6.0 or later, Netscape Communicator 7.0 or later |
| **Direct X:** | DirectX® 8.1b or later must be installed. |

Operation is not guaranteed for all computers that meet the above conditions

---

# Panasonic

ISO 9001
JQA-1617

PT-LB50NTU2-06MAR5K Printed in Japan.