Panasonic
ideas for life

PT-LB50NTEA
Micro Portable Wireless XGA LCD Projector
PT-LB50EA
Micro Portable XGA LCD Projector
PT-LB50SEA
Micro Portable SVGA LCD Projector

Fast Wireless Transmission Projector

Easy wireless projection (PT-LB50NTEA)

- Fast data transfer
- Wireless*[1] 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 colours in a bright room
- Auto operation with ambient light sensor (ALS)

High power and portability

- Bright 2,000 lumens
- Ultra-lightweight: 1.8 kg/1.9 kg (4.0 lbs/4.2 lbs)*[4]
- Slim and compact design: 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].
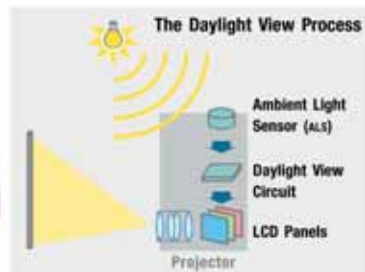
Wireless Prompter (Secondary Display) Function

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 colours 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

*1 Wireless projection function is featured on the PT-LB50NTEA only.
*2 Content and DVDs set with DRM (Digital Rights Management) cannot be transmitted.
*3 Comparison with Daylight View 2 turned On and Off, using an 80-inch screen and ordinary meeting room lighting of 400 lux. (Projector: PT-LB50NTEA, screen gain: 2.6)
*4 1.8 kg/4.0 lbs for the PT-LB50EA and PT-LB50SEA; 1.9 kg/4.2 lbs for the PT-LB50NTEA.
*5 Legs and protrudings not included.
*6 PT-LB20NTEA
*7 Transmission will be slower than transmission with a computer that has the software installed. Also, certain functions may not be available.
*8 With Wireless Manager ME 3.0, you can use the projector screen as a secondary monitor for the PC. In this setup, Microsoft® PowerPoint® must be set to "Show Presenter View."

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-LB50NTEA/LB50EA	786,432 (1,024 x 768) x 3, total of 2,359,296 pixels
PT-LB50SEA	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
Colours	Full colour (16,777,216 colours)
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
YPₚPᵣ	480i (525i): f_H 15.75 kHz; f_V 60 Hz
	576i (625i): f_H 15.63 kHz; f_V 50 Hz
	480p (525p): f_H 31.5 kHz; f_V 60 Hz
	576p (625p): f_H 31.25 kHz; f_V 50 Hz
	720p (750p): f_H 45 kHz; f_V 60 Hz
	1080i (1125i): f_H 33.75 kHz; f_V 60 Hz
	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
	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-LB50NTEA/LB50EA	1.1 m–11.1 m (3′7″–36′5″)
PT-LB50SEA	1.1 m–10.9 m (3′7″–35′9″)
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	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)
YPₚPᵣ signal	Y: 1.0 Vp-p (including sync signal), 75 ohms; Pₚ, Pᵣ: 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)
YPₚPᵣ signal	Y: 1.0 Vp-p (including sync signal), 75 ohms; Pₚ, Pᵣ: 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	2 m (6′7″)
Cabinet material	Moulded material (ABS/PC)
Dimensions (W x H x D)	297 x 57 x 210 mm (11-11/16″ x 2-1/4″ x 8-1/4″)
Weight	
PT-LB50NTEA	1.9 kg (4.2 lbs.)
PT-LB50EA/LB50SEA	1.8 kg (4.0 lbs.)

Operating environment

Temperature	0°–40°C (32°–104°F)
Humidity	20%–80% (no condensation)

Remote Control Unit

Power supply	3 V DC (button battery x 1)
Operation range[*2]	Approx. 7 m (23 feet) when operated from directly in front of the signal receptor
Dimensions (W x H x D)	52 x 123 x 21 mm (2-1/16″ x 4-27/32″ x 13/16″)
Weight	74 g (2.6 ozs.) (including batteries)

Wireless LAN (PT-LB50NTEA)

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. 30 m (98′5″)
Frequency range	2,412 MHz–2,472 MHz
Channels	1–13 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-LB50NTEA only.

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, polarising plate, and polarising 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, polarising plate, and polarising 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

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