Panasonic
ideas for life

PT-**LB10NT**E
Micro Portable Wireless XGA LCD Projector

PT-**LB10**E
Micro Portable XGA LCD Projector

PT-**LB10V**E
Micro Portable XGA LCD Projector

PT-**LB10S**E
Micro Portable SVGA LCD Projector

The Notebook-Size Wireless

Panasonic

■ **High performance, compact body**
- Bright 2000/1600 lumens*1
- Notebook-size compact body
- Ultra-lightweight: 2.1 kg*2
- Short-throw zoom lens

*1 PT-LB10NTE/LB10E/LB10SE: 2000 lumens
   PT-LB10VE: 1600 lumens
*2 PT-LB10NTE: 2.2 kg (4.9 lbs)
   PT-LB10E/LB10VE/LB10SE: 2.1 kg (4.7 lbs)

■ **Quick operation**
- 5-second speed start
- One-touch auto setup with digital keystone correction
- Direct power off

■ **Sophisticated functions**
- Projector AI
- Index window
- Secure, anti-theft features
- Auto power off

■ **Easy wireless projection (PT-LB10NTE)**
- Simple settings
- User-friendly interface
- Handy "Live" mode
- "Multi Live" mode

Set Yourself Free

PT-**LB10NT**E `2000 lm`
WIRELESS XGA Projector

[WIRELESS]

Unplug and Go

PT-**LB10**E `2000 lm`
MOBILE XGA Projector

PT-**LB10S**E `2000 lm`
MOBILE SVGA Projector

PT-**LB10V**E `1600 lm`
MOBILE VGA Projector

High Performance, Compact Body

Bright 2000/1600 Lumens
A high-performance optical system combines with a high-efficiency 155-W UHM™ lamp to deliver a super-bright 2000 lumens (PT-LB10NTE, PT-LB10E, PT-LB10SE) or 1600 lumens (PT-LB10VE). All models deliver crisp, bright images that are easy for the audience to see.

Notebook-Size Compact Body
PT-LB10 models are 297 mm wide by 210 mm deep—the same size as an A4 paper—and only 65 mm high. Each slips easily into a bag or briefcase. The compact size makes these models highly mobile and minimises the space required for presentations or storage.

297 mm (11-23/32˝)
65 mm (2-9/16˝)
210 mm (8-9/32˝)

Ultra-Lightweight: 2.1 kg
At only 2.1 kg*, PT-LB10 models won't weigh you down—even when you're toting along a notebook PC as well. Convenient size and weight are just two reasons why the PT-LB10 series is the logical choice for mobile presentations.

*PT-LB10NTE: 2.2 kg

Short-Throw Zoom Lens
This saves space by shortening the distance needed between screen and projector. You can project a 100˝ image from just three metres away, which lets you place the projector at the front of the table.

Quick Operation

Set
5-Sec Speed Start
Switch the power on and the projector is ready in just five seconds.

Ready
One-Touch Auto Setup
Simply point the projector toward the screen and press the Auto Setup button. The projector makes all the necessary settings itself.

Presentation

Go
Direct Power Off
When the presentation is finished, you can switch off the power, unplug, and leave with the projector right away.

These three functions give you a quicker start and a faster finish. They take all the trouble out of setting up, so you can concentrate on your presentation.

Quick Operation

5-Second Speed Start

Speed Start slashes the time it takes to get your presentation under way. The image appears in approximately 5 seconds after you press the power button. Behind this breakthrough is Panasonic's high-precision lamp and lamp power supply—an advantage made possible by our advanced production technology.

One-Touch Auto Setup with Digital Keystone Correction

This function assures quick and easy setup. The projector handles the basic image adjustments, from phasing to vertical and horizontal position. The built-in gravity sensor detects the projector's angle relative to the floor and corrects for vertical keystone distortion accordingly.

Direct Power Off

When the presentation is completed, Direct Power Off lets you disconnect the power cable and move the projector right away* because the cooling fan keeps operating until the lamp is cooled.

> * The projector cannot be placed into a bag until the cooling fan stops operating.

Auto Search

This detects which signal is input and switches automatically. It also memorises the input last used so that you don't have to press the Input Select button next time you turn on the projector if you usually project the same input source.

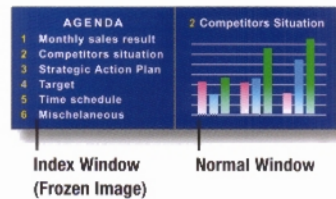# Sophisticated Functions

Secure, Anti-Theft Features

The PT-LB10 series is designed with effective anti-theft features, including a User Password, Control Panel Lock and Text Superimposing. It also has a security lock slot compatible with the Kensington MicroSaver® cable.

Projector AI

It automatically adjusts the lamp power to the optimum level to match the characteristics of the picture in real time. The result is increased dynamic range for higher contrast.

Index Window

Any image in the presentation, RGB or video input, can be frozen, and displayed on the left or right side of the screen as an Index Window, while the display of subsequent images continues on the other side.

Index Window   Normal Window
(Frozen Image)

Auto Power Off

This lets you specify a time (from 15 to 60 minutes, in 5-minute steps) after which the projector automatically enters standby mode if unused.

More Valuable Features

- Automatic input signal detector
- HDTV compatibility
- Full compatibility with sRGB colour space for accurate colour reproduction (in natural mode)
- Colour temperature selection (standard/high/low)
- Picture mode selection (standard/dynamic/natural)
- Blackboard mode allows to project images onto an ordinary classroom or conference room blackboard*
- Still mode
- 3x digital zoom
- Freeze
- Shutter function for image and sound muting
- Selectable 8-language on-screen menu (English, German, French, Spanish, Italian, Russian, Chinese, Korean)
- Discrete S-Video and video inputs allow connection of two DVD/video sources at a time
- Card remote control
- Ceiling mountable (option)
- Lamp power high/low selection
- Temperature warning indication
- Lamp replacement warning indication

* Not featured on the PT-LB10VE

Direct Power Off

When the presentation is done, just unplug the power cord, pack up and go. The projector continues cooling even after you pull the plug, so you can move quickly from one site to the next.

Simple, easy-to-understand control buttons with logical layout

Separate power supply for cooling fan and control circuit

Easy Wireless Projection
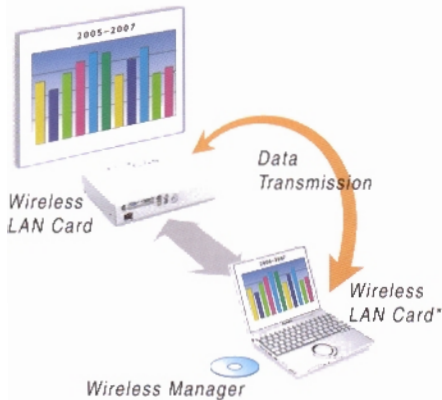## (PT-LB10NTE)

Wireless Presentation

The PT-LB10NTE adds an IEEE 802.11b-compliant wireless LAN function. Using the PT-LB10NTE with a PC that supports a wireless LAN*, you can conduct presentations with wireless ease and freedom. Setup is simple. On your PC, just launch the "Wireless Manager ME (Mobile Edition)" program that comes bundled with the PT-LB10NTE, and select the desired functions. With wireless projection, there's no need to reconnect PC cables when you're using more than one PC.

* You can also use the PT-LB10NTE's wireless function with IEEE 802.11g-compliant PC models for they have IEEE 802.11b compatibility.

Wireless LAN Card

Data Transmission

Wireless LAN Card*

Wireless Manager

* Built-in or optional

Simple Settings

We have simplified the process for installing Wireless Manager ME and setting up a PC for a wireless presentation. The process is even easier with Intel® Centrino™ PCs. Just insert the CD-ROM into a PC, and many settings are made automatically.* When the presentation is finished, Wireless Manager restores all PC settings to their original state, so the PC is ready to reconnect to your company LAN.

* The number of manual settings required may vary depending on the PC model.

User-Friendly Interface

All the operations you need for a wireless presentation can be controlled using the control panel displayed on your PC screen. This graphic user interface makes it easy to conduct the presentation.

Wireless Manager Control Panel

Handy "Live" Mode

Select Live mode from Wireless Manager's menu and you can project images the same way as when the projector and PC are connected by cable. This lets you give active, 'animated' presentations using PowerPoint® effects and motion-type Web pages, while still enjoying full wireless convenience.

Multi-Live Mode

In this mode the PT-LB10NTE can receive data from several PCs and project in either of two ways: Four Window Style and Index Style.

In Four Window Style, the PT-LB10NTE projects images into four separate windows. In Index Style, it projects images from up to four PCs as small windows (like thumbnails) along the bottom of the screen. Using the supplied remote control, you can then select any one of the index windows and display it on the main window.

Four Window Style

Index Style

Other Wireless Features

- Projector control/status monitoring capability via an Internet browser
- Follows the Advanced Encryption Standard (AES), which has been adopted as an official U.S. Government standard
- One-shot mode

To use wireless functions, a PC is required that meets the conditions given below:
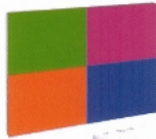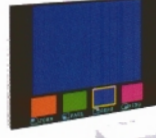
OS:	Windows XP/2000/Me/98SE (Windows XP or 2000 recommended)
CPU:	Pentium III or faster, or other compatible processor (Celeron 633 MHz or faster recommended; however 800 MHz or faster recommended when using the "live" mode).
Memory:	64 MB or more (128 MB or more for Windows XP/2000)

Browser control function can be operated with Mac OS that meets the conditions given below:

OS:	Mac OS 8.6 or later
CPU:	Power PC processor or faster
Memory:	64 MB or more

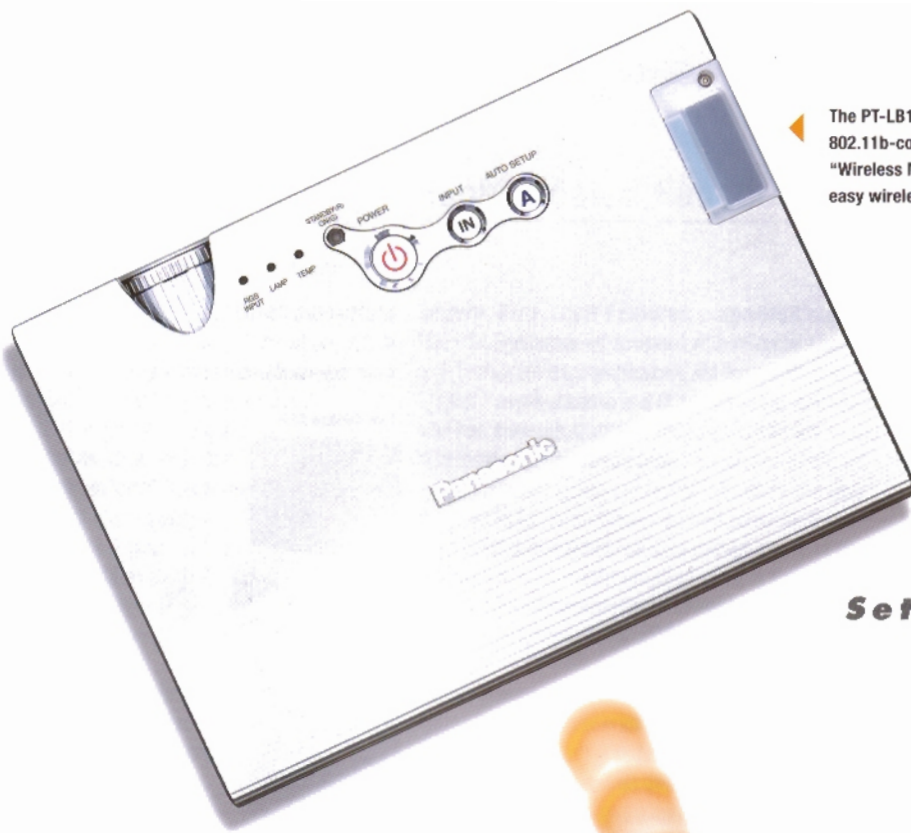**Operation is not guaranteed for all computers that meet the above conditions.**

Ecology-Conscious Design

Panasonic works from every angle to minimise environmental impact in the product design, production and delivery processes, and in the performance of the product itself over its life cycle. The PT-LB10 Series 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.

PT-LB10 Series Feature Comparison

	PT-LB10NTE	PT-LB10E	PT-LB10VE	PT-LB10SE
Brightness	2000 lumens	2000 lumens	1600 lumens	2000 lumens
Contrast ratio	500:1	500:1	400:1	400:1
Native resolution (max.)	XGA (UXGA)	XGA (UXGA)	XGA (UXGA)	SVGA (UXGA)
Throw distance	1.1–11.0 m	1.1–11.0 m	1.1–11.0 m	1.1–11.0 m
5-Second speed start	Yes	Yes	Yes	Yes
One-touch auto setup	Yes	Yes	Yes	Yes
Direct power off	Yes	Yes	Yes	Yes
Blackboard mode	Yes	Yes	No	Yes
Notebook-size compact body (297 x 65 x 210 mm)	Yes	Yes	Yes	Yes
Weight	2.2 kg	2.1 kg	2.1 kg	2.1 kg
Wireless presentation capability	Yes	No	No	No

Set yourself free.

Give Your Presentation From Wherever You Like

Imagine that you are listening to a presentation and the presenter projects some data onto the screen. You, however, have urgent updated data that it would be useful to share. With the PT-LB10NTE (and the presenter's permission, of course) you can do so.

The PT-LB10NTE lets you send data from a notebook PC directly to the projector—no cables or wires to connect—for projection onto the screen. You don't even have to leave your seat.

The Panasonic PT-LB10NTE has achieved an entirely new level of wireless ease and mobility, freeing you from the bondage of cables connecting projector with PC. That the PT-LB10NTE is also exceptionally compact and lightweight makes this achievement even more remarkable.

Direct Power Off
— Unplug and Go —

○ You can move quickly from one site to the next

○ The cooling fan keeps operating

Optional ceiling mount bracket: ET-PKC80
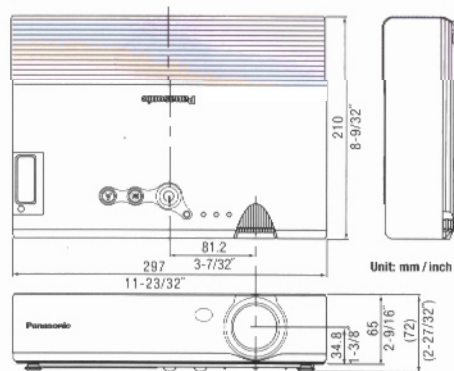
Specifications

Power supply	100–240 V AC, 50/60 Hz
Power consumption	220 W (6 W in standby mode with fan stopped)
Optical system	Dichroic mirror separation/prism synthesis system
LCD panel	
Panel size	0.7˝ diagonal with micro lens array (4:3 aspect ratio)
Display method	Transparent LCD panel (x 3, R/G/B)
Drive method	Active matrix
Pixels	
PT-LB10NTE/LB10E/LB10VE	786,432 (1,024 x 768) x 3, total of 2,359,296 pixels
PT-LB10SE	480,000 (800 x 600) x 3, total of 1,440,000 pixels
Pixel configuration	Stripe
Lens	Manual zoom/focus lens (1:1–1:1.2),
PT-LB10NTE/LB10E/LB10SE	F 1.7–1.9, f 21.5–25.8 mm
PT-LB10VE	F 2.0–2.3, f 22.0–26.2 mm
Lamp	155 W UHM™ lamp
Screen size	838–7,620 mm (33–300 inches) diagonally, 4:3 aspect ratio
Colours	Full colour (16,777,216 colours)
Brightness	
PT-LB10NTE/LB10E/LB10SE	2000 lumens
PT-LB10VE	1600 lumens
Uniformity	90%
Contrast	
PT-LB10NTE/LB10E	500:1*1 (full on/full off)
PT-LB10VE/LB10SE	400:1*1 (full on/full off)
Scanning frequency	
RGB	Horizontal: 15–91 kHz, Vertical: 50–85 Hz
YPBPR	480i (525i): fH 15.75 kHz; fV 60 Hz
	576i (625i): fH 15.63 kHz; fV 50 Hz
	480p (525p): fH 31.5 kHz; fV 60 Hz
	576p (625p): fH 31.25 kHz; fV 50 Hz
	720p (750p): fH 45 kHz; fV 60 Hz
	1080i (1125i): fH 33.75 kHz; fV 60 Hz
	1080i (1125i): fH 28.125 kHz; fV 50 Hz
S-Video/Video	NTSC, NTSC4.43, PAL-M, PAL60: fH 15.75 kHz; fV 60 Hz
	PAL, SECAM, PAL-N: fH 15.63 kHz; fV 50 Hz
Optical axis shift	6:1 (fixed)
Keystone correction range	Vertical: approx. ±30°
On-screen menu	8 languages: English, French, German, Spanish, Italian, Chinese, Korean, Russian
Installation	Ceiling/desk, front/rear (menu selection)
Built-in speakers	1.0 W (monaural) output power
Terminals	
RGB IN	D-sub HD 15-pin x 1
RGB signal	G: 0.7 Vp-p (1.0 Vp-p for Sync on G), 75 Ω
	R, B: 0.7 Vp-p, 75 Ω
	HD, VD, SYNC: TTL, high impedance (positive/negative polarity)

YPBPR signal	Y: 1.0 Vp-p (including sync signal), 75 Ω
	PB, PR: 0.7 Vp-p, 75 Ω
RGB OUT	D-sub HD 15-pin x 1
RGB signal	G: 0.7 Vp-p (1.0 Vp-p for Sync on G), 75 Ω
	R, B: 0.7 Vp-p, 75 Ω
	HD, VD, SYNC: TTL, high impedance (positive/negative polarity)
YPBPR signal	Y: 1.0 Vp-p (including sync signal), 75 Ω
	PB, PR: 0.7 Vp-p, 75 Ω
VIDEO IN	RCA pin x 1, 1.0 Vp-p, 75 Ω
S-VIDEO IN	Mini DIN 4-pin x 1,
	Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 Ω
AUDIO IN	RCA (L, R) x 1, 0.5 Vrms, for RGB/VIDEO/S-VIDEO
SERIAL	Mini DIN 8-pin x 1 (RS-232C)
Wireless card slot (PT-LB10NTE)	x1, For supplied CompactFlash™ type wireless card
Power cord length	2 m (6´7˝)
Cabinet material	ABS/PC
Dimensions (W x H x D)	297 x 65 x 210 mm (11-23/32˝ x 2-9/16˝ x 8-9/32˝)*2
Weight	
PT-LB10NTE	2.2 kg (4.9 lbs.)
PT-LB10E/LB10VE/LB10SE	2.1 kg (4.7 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*3	Approx. 7 m (23 feet) when operated from directly in front of the signal receptor
Dimensions (W x H x D)	40 x 86 x 6.5 mm (1-9/16˝ x 3-3/8˝ x 1/4˝)
Weight	17.5 g (0.62 oz.) (including a battery)
Wireless card (PT-LB10NTE)	
Standard	IEEE802.11b

Supplied Accessories

- Card-type remote control • Battery for remote control • Power cord • VGA cable • Carrying bag • Software CD-ROM (PT-LB10NTE)

Optional Accessories

ET-LAB10	Replacement lamp unit
ET-PKC80	Ceiling mount bracket
ET-RM300	Full-function wireless remote control
ET-ADSER	Serial adapter (DIN 8-pin/D-sub 9-pin)
ET-CDWL3	IEEE802.11b-compliant wireless LAN card for PC (PT-LB10NTE)

*1: In AI mode. *2: Height including protruding parts and legs: 72 mm (2-27/32˝).

Dimensions

210 / 8-9/32˝
81.2 / 3-7/32˝
297 / 11-23/32˝
34.8 / 1-3/8˝
65 (72) / 2-9/16˝ (2-27/32˝)

Unit: mm / inch

Projection Distance

PT-LB10NTE/LB10E/LB10SE

Diagonal image size (4:3 aspect ratio)	Distance to screen min.	max.	Height from the edge of screen to centre of lens
33˝ / 0.84 m / 2.7´	–	1.1 m / 3.6´	8 cm / 3.1˝
40˝ / 1.02 m / 3.3´	1.2 m / 3.9´	1.4 m / 4.6´	9 cm / 3.5˝
50˝ / 1.27 m / 4.2´	1.5 m / 4.9´	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´	14 cm / 5.5˝
70˝ / 1.78 m / 5.8´	2.1 m / 6.9´	2.4 m / 7.9´	16 cm / 6.3˝
80˝ / 2.03 m / 6.7´	2.4 m / 7.9´	2.8 m / 9.2´	18 cm / 7.1˝
90˝ / 2.29 m / 7.5´	2.7 m / 8.9´	3.2 m / 10.5´	20 cm / 7.9˝
100˝ / 2.54 m / 8.3´	3.0 m / 9.8´	3.5 m / 11.5´	22 cm / 8.7˝
120˝ / 3.05 m / 10.0´	3.6 m / 12.5´	4.2 m / 13.8´	26 cm / 10.2˝
150˝ / 3.81 m / 12.5´	4.5 m / 14.8´	5.3 m / 17.4´	33 cm / 13.0˝
200˝ / 5.08 m / 16.7´	6.0 m / 19.7´	7.1 m / 23.3´	44 cm / 17.3˝
250˝ / 6.35 m / 20.8´	7.5 m / 24.6´	8.9 m / 29.2´	55 cm / 21.7˝
300˝ / 7.62 m / 25.0´	9.0 m / 29.5´	10.7 m / 35.1´	66 cm / 26.0˝

PT-LB10VE

Diagonal image size (4:3 aspect ratio)	Distance to screen min.	max.	Height from the edge of screen to centre of lens
33˝ / 0.84 m / 2.7´	–	1.1 m / 3.6´	8 cm / 3.1˝
40˝ / 1.02 m / 3.3´	1.2 m / 3.9´	1.4 m / 4.6´	9 cm / 3.5˝
50˝ / 1.27 m / 4.2´	1.5 m / 4.9´	1.8 m / 5.9´	11 cm / 4.3˝
60˝ / 1.52 m / 4.9´	1.8 m / 5.9´	2.1 m / 6.9´	14 cm / 5.5˝
70˝ / 1.78 m / 5.8´	2.1 m / 6.9´	2.5 m / 8.3´	16 cm / 6.3˝
80˝ / 2.03 m / 6.7´	2.4 m / 7.9´	2.9 m / 9.5´	18 cm / 7.1˝
90˝ / 2.29 m / 7.5´	2.8 m / 9.2´	3.2 m / 10.5´	20 cm / 7.9˝
100˝ / 2.54 m / 8.3´	3.0 m / 9.8´	3.6 m / 11.8´	22 cm / 8.7˝
120˝ / 3.05 m / 10.0´	3.7 m / 12.1´	4.3 m / 14.1´	26 cm / 10.2˝
150˝ / 3.81 m / 12.5´	4.6 m / 15.1´	5.4 m / 17.7´	33 cm / 13.0˝
200˝ / 5.08 m / 16.7´	6.1 m / 20.0´	7.3 m / 24.0´	44 cm / 17.3˝
250˝ / 6.35 m / 20.8´	7.6 m / 24.9´	9.1 m / 29.9´	55 cm / 21.7˝
300˝ / 7.62 m / 25.0´	9.2 m / 30.2´	11.0 m / 36.1´	66 cm / 26.0˝

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ISO 9001
JQA-1617

JAB EMS Accreditation RE 009

ISO 14001

JACO JAPAN AUDIT AND CERTIFICATION ORGANIZATION FOR ENVIRONMENT AND QUALITY

UKAS ENVIRONMENTAL MANAGEMENT 051