Panasonic
ideas for life

PT-**LB3** Series
LCD Projectors

PT-**LB3**U
PT-**LB2V**U

FOR EDUCATION

Superb Performance with a 5,000-Hour Lamp Replacement Cycle

Compact, Mobile Projectors

FOR BUSINESS

Outstanding Performance and Excellent Mobility Ideal for a Wide Range of Uses — From Business to Education

The PT-LB3 Series offers superb basic performance, such as a 5,000-hour*1 lamp replacement cycle.
Its Intelligent Power Management function allows resistance to sudden voltage fluctuations.
A network function reduces management tasks with a wired LAN connection, and allows flexible system upgrading.
And an easy setup function enables quick operation for portable use.
This kind of versatility brings efficient visual communication to all kinds of applications.

Enhanced Basic Performance

A 5,000-hour*1 lamp replacement cycle saves operating costs. Also, the Intelligent Power Management function allows the projector to continue operating even when the power supply voltage is fluctuated.

Installation Flexibility

The PT-LB3 Series has useful features such as a wired LAN network.It is a mobile projector, but can also be used on a desktop or mounted to the ceiling.

Easy Operation

Setup is fast and easy thanks to features like Speed Start, which brings up the image quickly*2, and simple, single-leg adjustment of the projector angle.

Balanced Quality and Performance

PT-**LB3**U

3,200 lm | XGA

PT-**LB2V**U

2,600 lm | XGA

*1 This value is calculated by continuously turning the lamp on for 2 hours and off for 0.25 hour.
The lamp replacement cycle will decrease if the lamp is turned on/off more frequently, or if it is left on for longer intervals.
*2 Standby mode : Normal

Portable Convenience and High Basic Performance, Including a 5,000-hour[*1] Lamp Replacement Cycle and a Resistance to Sudden Voltage Fluctuations[*3]

The New Lamp Drive System Enables a 5,000-hour[*1] Lamp Replacement Cycle

Panasonic employs a number of advanced technologies — including a proprietary lamp drive system — that help maintain lamp performance . This has resulted in a 5,000-hour[*1] lamp replacement cycle. It helps saving operating cost by providing longer usage between lamp replacements.

Intelligent Power Management Function Allows Resistance to Sudden Voltage Fluctuations[*3]

Momentary power outages[*4] or voltage drops[*5] can cause the projector to shut down, interrupting the projection. The PT-LB3 Series equipped with the Intelligent Power Management function controls the power supply to cope with power fluctuations, to enable continued projection.

The Daylight View Basic Function Ensures Clear Images Even in Brightly Lit Rooms

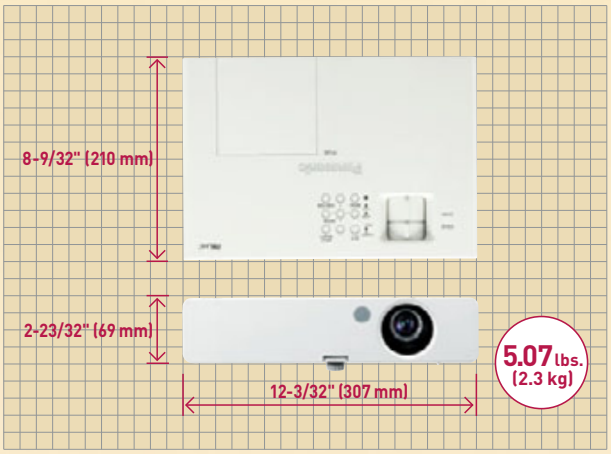
Panasonic's Daylight View Basic technology achieves sharp, easy-to-see images by clearly reproducing the details in dark image areas, which were previously difficult to see in brightly lit rooms. A built-in sensor measures the ambient light, and the Daylight View Basic function adjusts the halftone color and brightness level according to the surrounding illumination.

Quiet 29 dB[*6] Design Helps to Hold Viewers' Attention

The noise level is as low as 29 dB[*6]. This helps your audience to keep their attention on the discussion or on the screen images during quiet scenes.

Easy Portability with a Compact, A4-File-Size Body

The compact body is the size of an A4 file and weighs only about 2.3 kg, while producing a brightness of 3,200 lm[*7]. Its handy size and weight make it easy to carry from room to room, or to a client's office for an on-site presentation. It gives you sharp, clear images wherever and whenever you need them.



Low Standby Power Consumption of 0.3 W[*8] Helps the Environment

The ecological design of the PT-LB3 Series greatly reduces its environmental impact. In Eco Standby mode[*9], power consumption is only 0.3 W[*8]. As examples of other environmental design features, the uncoated cabinet uses no halogenated flame retardants, the lens uses lead-free glass, and an Auto Off Timer switches the projector to Standby mode when no input signal is received for a preset time.
The PT-LB3 Series also complies with the standards of the RoHS Directive[*10].

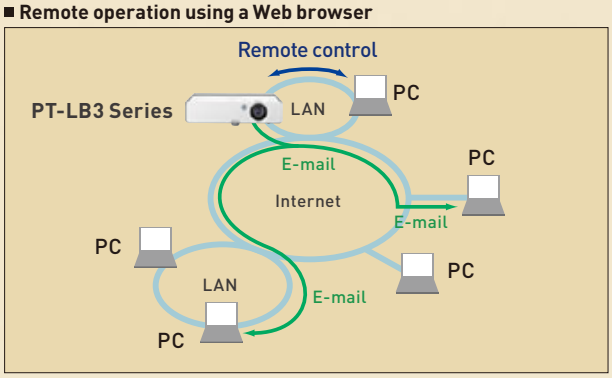
*1 This value is calculated by continuously turning the lamp on for 2 hours and off for 0.25 hour.
The lamp replacement cycle will decrease if the lamp is turned on/off more frequently, or if it is left on for longer intervals.
*3 Fluctuations may occur in the electricity power supply except the power outage.
*4 Continuing 0V power supply during several tens of milliseconds.
*5 Power supply voltage reduction. Excluding momentary power outage.
*6 Lamp mode : Eco
*7 For the PT-LB3U. The brightness of the PT-LB2VU is 2,600 lm.
*8 0.3 W at 100-120V AC. 0.4 W at 220-240V AC.
*9 When the standby mode is set to ECO, network functions such as power on over the LAN will not operate.
Also, only certain commands can be received for external control using the serial terminal.
*10 Restriction of the use of certain Hazardous Substances. The specified toxic substances used in the electrical and electronic equipment that is manufactured and distributed within Europe are controlled (the six substances are lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl esters (PBDE)), and all Panasonic projectors comply with the standards of the European RoHS Directive.

A Wired LAN Network Function and Other Functions Allow Easy System Integration

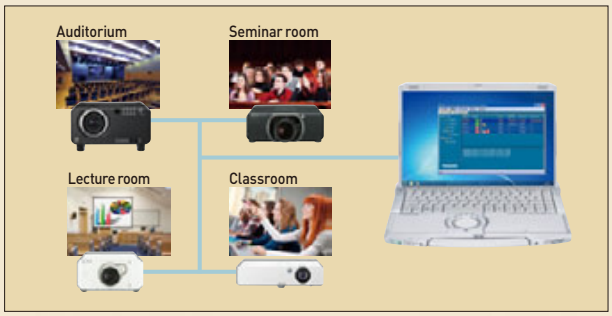
Easy Remote Monitoring and Control Even When Mounted on the Ceiling

A Web browser on a computer connected through a wired LAN system lets you remotely operate projectors and check their status. An e-mail messaging function can also notify you when a lamp needs replacement, and indicate the overall projector status. In addition, Multi Projector Monitoring and Control Software is included for monitoring and controlling multiple Panasonic projectors from a single PC. The wired LAN terminal is compatible with PJLink™ (Class1), an open protocol that is used by many manufacturers, to enable integrated control of systems that contain different brands of projectors.

■ **Remote operation using a Web browser**



■ **Basic concept of the Multi Projector Monitoring and Control Software**

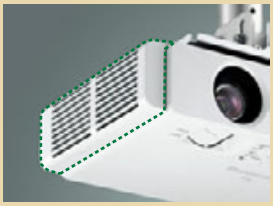


Top-Panel Lamp Replacement and Side Air Filter Replacement Simplify Maintenance Even for a Ceiling-Mounted Projector

The lamp can be accessed through the top panel for easy replacement, and the air filter can be removed and installed through the side panel. This eliminates the need to detach the projector from its ceiling bracket and greatly simplifies maintenance. The air filter uses a Micro Cut Filter, which is an electrostatic filter that employs an ion effect to attract and trap dust particles with high efficiency.

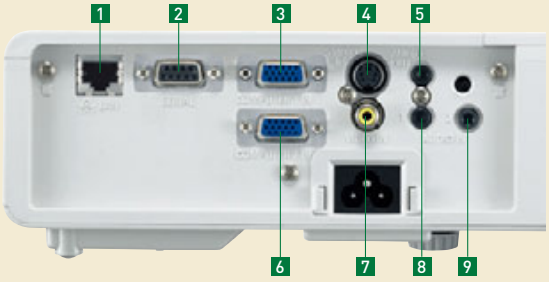
Optional Highly Durable Filter for Use in Dusty Areas

The external ET-KFB2 highly durable filter mounts to the PT-LB3 Series projector to boost dust and particle collection. This optional filter is recommended if the projector is to be installed in a dusty area.



Various Interfaces Allow Use with a Wide Range of Systems

Various interfaces: Interfaces include two computer (RGB) inputs, a wired LAN terminal, and a serial (RS-232C) terminal for external control. The serial terminal has an Emulate function that lets you continue using existing control systems when replacing a previous Panasonic model. It is also possible to output audio during Standby mode. This is convenient when connecting an external audio system*11 through the projector.



1 LAN
2 Serial input
3 Computer 1 input
4 S-Video input
5 Audio output
6 Computer 2 input
7 Video input
8 Audio 1 input
9 Audio 2 input

*11 Requires speakers and an audio amplifier.

Usability was Also a High Design Priority, as Seen in Versatile Functions for Easy Setup.

A Variety of Functions Provide Easy Setup

•With Speed Start, the image quickly appears*12 after you press the power button.

•Single-leg simplifies adjustment of the projector angle.

•With Real-Time Keystone Correction, the projector automatically senses if you adjust its angle (in the vertical direction) during operation and instantly makes whatever keystone correction is necessary for optimal viewing.

•Auto Signal Search automatically detects what kind of source is connected and begins projection.*13

•On-Screen Help Display: If images cannot be projected when a PC is connected by a VGA cable, this function displays the output setting method for the PC. The Help screen guides you through the button operations according to the maker of the connected PC.

•Input Guidance Function: This function displays on-screen illustrations to show the selected channel and whether the input signal is being received or not. It lets you confirm the input conditions at a glance, even when multiple devices are connected to the input terminals.

•Whiteboard and Blackboard modes are convenient when projecting in rooms that don't have a screen.

Direct Power Off Function — Unplug the Power Cord Immediately After Use

The Direct Power Off function keeps the cooling fan turned on even when you unplug the power cord right after use. Electric power stored inside the unit is used to operate the cooling fan to lower the internal temperature. This lets you put everything away and carry the projector quickly to your next presentation or lecture.

Convenient Carrying Bag

A carrying bag with a handy shoulder strap comes with the projector. It also protects the projector from impacts.

Effective Theft Prevention with the Startup Logo

You can change the default Panasonic start up logo to any logo you want. A new logo can be easily uploaded by connecting a computer to the PT-LB3 Series through the LAN or serial connection by using the Logo Transfer Software*14. An abundance of other security measures are also included, such as a security anchor, a user password, a control panel lock, and text superimposing.

Security anchor

Other Features

•Index Window: You can split the screen into two windows, right and left, and display a frozen (still) image in one and a real-time action image in the other.

A frozen image A real-time action image

•Digital Zoom: Expands selected parts of the display up to three times their original size.*15

•Freeze Function: This function lets you display still images by freezing a motion image.

•AV mute: Temporarily turns off both the image and the sound.

•Background Color: When there is no signal from the source device, a solid background color (settable to either blue or black) is displayed on the screen to help prevent connection errors.

•A Compact, Easy-to-Use Wireless Remote Control

•Selectable 17-language on-screen menu

•Built-in closed caption decoder

Eco Information

- No halogenated flame retardants are used in the cabinet.
- Non-coated cabinet for easy recycling.
- Daylight View Basic function makes the screen seem brighter without increasing power consumption.
- Lead-free glass is used for the lens.
- Standby power consumption of only 0.3 W*8 has been achieved (standby mode: ECO)*9.
- An Auto Off Timer switches the projector to Standby mode when no input signal is received for a preset time.

Designed in Japan

The PT-LB3 Series projectors are carefully designed by Panasonic in Japan to meet demands for high quality and performance.

*12 Standby mode : Normal
*13 Searches for approximately 5 minutes after the power is turned on.
*14 Uploadable still images are limited to 1024 X 768 pixel bitmap files. Also, the application will reduce the number of colors to 191.
*15 Up to two times their original size when using video/S-Video signal input.

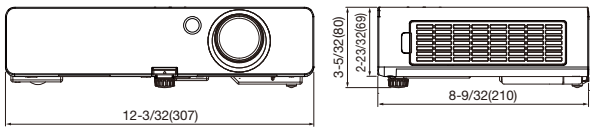
Specifications

Models		PT-LB3U	PT-LB2VU
Power supply		100-240 V AC, 50/60 Hz	
Power consumption		300 W	290 W
		0.3 W at 100-120 V AC, 0.4 W at 220-240 V AC when standby mode set to eco*1, 15 W when standby mode set to normal, 18 W when standby mode set to normal and audio monitor out.	
Optical system		Dichroic mirror separation/prism synthesis system	
LCD panel	Panel size	0.63˝ (16 mm) diagonal, 4:3 aspect ratio	
	Display method	Transparent LCD panel (x 3, R/G/B)	
	Drive method	Active matrix	
	Pixels	786,432 pixels (1,024 x 768) x 3 panels	
Lens		Manual zoom (1:1-1:1.2), manual focus, F 1.64-1.87, f 18.80-22.56 mm, throw ratio: 1.4-1.7:1	Manual zoom (1:1-1:1.2), manual focus, F 2.00-2.20, f 19.22-22.68 mm, throw ratio: 1.5-1.7:1
Lamp		220 W UHM lamp (The lamp replacement cycle is 5,000 hours.*2)	
Screen size (diagonal)		33-300 inches (0.84-7.62 m) (4:3 aspect ratio)	
Color		Full color (16,777,216 colors)	
Brightness		3,200 lumens*3	2,600 lumens*3
Center-to-corner uniformity		85%*3	
Contrast		600:1 (full on/full off)*3	
Resolution		1,024 x 768*4	
Scanning frequency	RGB	Horizontal: 15-91 kHz, Vertical: 50-85 Hz	
	YP_BP_R/YC_BC_R	480i(525i): f_H 15.75 kHz; fv 60 Hz / 480p(525p): f_H 31.50 kHz; fv 60 Hz / 720p(750p): f_H 45.00 kHz; fv 60 Hz / 1080i(1125i): f_H 33.75 kHz; fv 60 Hz / 1080p(1125p): f_H 67.50 kHz; fv 60 Hz 576i(625i): f_H 15.63 kHz; fv 50 Hz / 576p(625p): f_H 31.25 kHz; fv 50 Hz / 720p(750p): f_H 37.50 kHz; fv 50 Hz / 1080i(1125i): f_H 28.13 kHz; fv 50 Hz / 1080p(1125p): f_H 56.25 kHz; fv 50 Hz	
	S-Video/Video	NTSC, NTSC4.43, PAL-M, PAL60: f_H 15.75 kHz; fv 60 Hz PAL, SECAM, PAL-N: f_H 15.63 kHz; fv 50 Hz	
Optical axis shift		5:1 (fixed)	
Keystone correction range		Vertical: ±30°	
Installation		Front/rear ceiling/desk (menu selection)	
Built-in speaker		1.0 W (monaural)	
Terminals	COMPUTER 1 IN	D-sub HD 15-pin x 1 (RGB/YP_BP_R/YC_BC_R x 1)	
	COMPUTER 2 IN	D-sub HD 15-pin x 1 (RGB/YP_BP_R/YC_BC_R x 1)	
	VIDEO IN	RCA pin x 1 (Composite video x 1)	
	S-VIDEO IN	Mini DIN 4-pin x 1 (S-Video x 1)	
	AUDIO IN	M3 x 2 (L-R x 2)	
	VARIABLE AUDIO OUT	M3 x 1 (L-R x 1)	
	SERIAL	D-sub 9-pin x 1 (RS-232C)	
	LAN	RJ-45 x 1, compatible with PJLink™ (class 1), 100BASE-TX/10BASE-T	
Cabinet material		Moulded plastic (PC+ABS)	
Dimensions (W x H x D)		12-3/32" x 2-23/32" x 8-9/32" (307 x 69 x 210 mm)*5	
Weight		Approx. 5.07 lbs. (2.3 kg)*6	
Noise level		37 dB(Lamp mode : Normal) , 29 dB(Lamp mode : Eco)	
Operation environment		Temperature: 32°-104°F (0°-40°C)*7, Humidity: 20%-80% (no condensation)	
Supplied accessories		Power cord, power cord secure lock, wireless remote control unit, batteries (AAA type x2), VGA cable, carrying bag, software CD-ROM	

*1: When the standby mode is set to eco, network functions such as power on over the LAN will not operate. Also, only certain commands can be received for external control using the serial terminal.
*2: This value is calculated by continuously turning the lamp on for 2 hours and off for 0.25 hour. The lamp replacement cycle will decrease if the lamp is turned on/off more frequently, or if it is left on for longer intervals.
*3: Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
*4: Input signals that exceed this resolution will be converted to 1,024 x 768 pixels.
*5: Protruding parts not included.
*6: Average value (excluding lens cap). May differ depending on models.
*7: The operating temperature range is 32°F to 95°F (0°C to 35°C) when used in High-Altitude mode (4,593 to 8,858 feet (1,400 to 2,700 m)). Also, in Lamp Normal mode, if the ambient temperature exceeds 95°F /35°C (85°F /30°C in High-Altitude mode), the light output may be reduced approximately 30% to protect the projector.

Dimensions

unit : inch (mm)



Optional Accessories

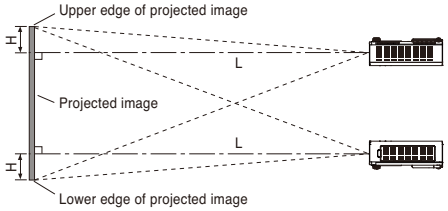
Ceiling mount bracket:
ET-PKB2

Highly durable filter unit:
ET-KFB2

Replacement filter for ET-KFB2:
ET-RFB2

Replacement lamp unit:
ET-LAB2

Projection Distance (Screen aspect ratio = 4:3)



Project size (diagonal)	[PT-LB3U] Projection distance (L)		[LB2VU] Projection distance (L)		Height from the edge of screen to center of lens (H)
	Min (wide)	Max (telephoto)	Min (wide)	Max (telephoto)	
33˝ (0.84 m)	-	3.7´ (1.1 m)	-	3.8´ (1.1 m)	0.28´ (0.08 m)
40˝ (1.02 m)	3.7´ (1.1 m)	4.5´ (1.4 m)	3.9´ (1.2 m)	4.6´ (1.4 m)	0.33´ (0.10 m)
50˝ (1.27 m)	4.7´ (1.4 m)	5.6´ (1.7 m)	4.8´ (1.5 m)	5.8´ (1.8 m)	0.42´ (0.13 m)
60˝ (1.52 m)	5.6´ (1.7 m)	6.8´ (2.1 m)	5.8´ (1.8 m)	6.9´ (2.1 m)	0.50´ (0.15 m)
70˝ (1.78 m)	6.6´ (2.0 m)	7.9´ (2.4 m)	6.8´ (2.1 m)	8.1´ (2.5 m)	0.58´ (0.18 m)
80˝ (2.03 m)	7.6´ (2.3 m)	9.1´ (2.8 m)	7.8´ (2.4 m)	9.3´ (2.8 m)	0.67´ (0.20 m)
90˝ (2.29 m)	8.5´ (2.6 m)	10.2´ (3.1 m)	8.8´ (2.7 m)	10.5´ (3.2 m)	0.75´ (0.23 m)
100˝ (2.54 m)	9.5´ (2.9 m)	11.4´ (3.5 m)	9.8´ (3.0 m)	11.6´ (3.5 m)	0.83´ (0.25 m)
120˝ (3.05 m)	11.4´ (3.5 m)	13.7´ (4.2 m)	11.8´ (3.6 m)	14.0´ (4.3 m)	1.00´ (0.30 m)
150˝ (3.81 m)	14.4´ (4.4 m)	17.1´ (5.2 m)	14.8´ (4.5 m)	17.5´ (5.3 m)	1.25´ (0.38 m)
200˝ (5.08 m)	19.0´ (5.8 m)	22.9´ (7.0 m)	19.7´ (6.0 m)	23.4´ (7.1 m)	1.67´ (0.51 m)
250˝ (6.35 m)	23.8´ (7.3 m)	28.7´ (8.7 m)	24.7´ (7.5 m)	29.3´ (8.9 m)	2.08´ (0.64 m)
300˝ (7.62 m)	28.6´ (8.7 m)	34.4´ (10.5 m)	29.6´ (9.0 m)	35.1´ (10.7 m)	2.50´ (0.76 m)

Panasonic®

For more information about Panasonic projectors
http://panasonic.net/avc/projector

JQA-QMA14392

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export control regulations. The projection distances and throw ratios given in this brochure are for use only as guidelines. For more detailed information, please consult the dealer from whom you are purchasing the product.
Also, the throw ratios shown are the values for an 80-inch image size (measured diagonally). The throw ratio varies depending on the diagonal image size. The PJLink trademark is an application trademark in Japan, the United States, and other countries and regions or registered trademarks. All other trademarks are the property of their respective trademark owners. Projection images simulated.
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