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ideas for life
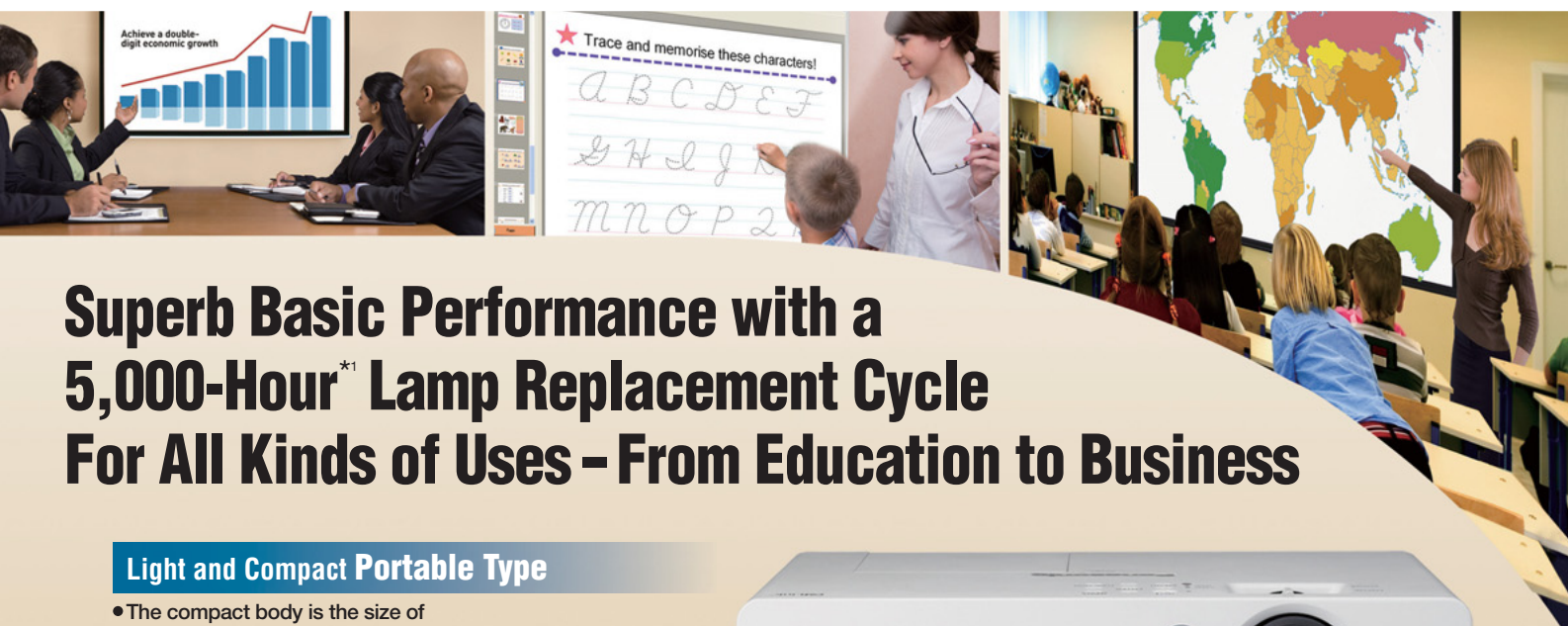
Superb Basic Performance with a 5,000-Hour*¹ Lamp Replacement Cycle For All Kinds of Uses – From Education to Business

Light and Compact **Portable Type**

● The compact body is the size of an A4 file and weights only about 2.3 kg.

PT-**LB2** | 2600 lm | XGA
PT-**LB1** | 2200 lm | XGA

The PT-LB2/LB1 are scheduled for release in early summer 2010.

Short Throw Type for Close-Range Projection

● Projects large, 80-inch images with a throw distance of only 82 cm.
● Reduces shadows on the screen.

PT-**ST10** | 2500 lm | XGA

The PT-ST10 is scheduled for release in summer 2010.

High Basic Performance

■ The *new lamp drive system* enables a 5,000-hour*¹ lamp replacement cycle.

■ The *Power Stabilizer function* lets you use the projector even in places with unstable electrical power.

■ The *Daylight View Basic function* ensures clear images even in brightly lit rooms.

■ *Low standby power consumption of 0.4 W*² helps the environment.

Easy System Upgrading

■ The projector comes with a *wired LAN terminal* and *Multi Projector Monitoring and Control software* that lets you monitor and operate multiple Panasonic projectors from a PC.

■ *Top-panel lamp replacement and side air filter replacement* simplify maintenance even for a ceiling-mounted projector.

■ *Optional air filter unit ET-KFB2* for use in dusty environment.

■ *Various interfaces* allow use with a wide range of systems.

Special Convenient Functions

■ With *Speed Start*, the image appears in about five seconds*³ after you press the power button.

■ The *Start-Up Logo function* displays any desired logo as soon as projection begins.

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

■ The *Direct Power-Off function* lets you immediately pull the plug from the power outlet when you are finished using the projector.

*¹ The above value is the maximum cycle for projector usage in which the lamp is turned on for 3.5 hours and then off for 30 minutes. The lamp replacement cycle will be shorter if the lamp is turned on more frequently or if it is kept on consecutively for a longer period of time.
*² In Standby Eco mode.   *³ With the Start-up Logo function disabled.

Specifications

Models	PT-LB2	PT-LB1	PT-ST10
Power supply	100-240 V AC, 50/60 Hz		
Power consumption	300W (0.4 W*1 in eco standby mode. 15 W in normal standby mode. 18 W in normal standby mode when set to audio monitor out and with fan stopped.)		
Optical system	Dichroic mirror separation/prism synthesis system		
LCD panel — Panel size	16 mm (0.63″) diagonal, 4:3 aspect ratio		
LCD panel — Display method	Transparent LCD panel (x 3, R/G/B)		
LCD panel — Drive method	Active matrix		
LCD panel — Pixels	786,432 pixels ((1,024 x 768) x 3 panels)		
Lens	Manual zoom (1:1-1:1.2), manual focus, F 1.65-1.93, f 18.53-22.18 mm	Manual zoom (1:1-1:1.2), manual focus, F 2.00-2.20, f 19.22-22.68 mm	Fixed, manual focus, F 1.80, f 6.74 mm
Lamp	220 W UHM lamp (The lamp replacement cycle is 5,000 hours.)*2		
Screen size	33-300 inches (4:3 aspect ratio)		50-110 inches (4:3 aspect ratio)
Brightness*3	2,600 lumens	2,200 lumens	2,500 lumens
Center-to-corner uniformity*3	85%		
Contrast*3	500:1 (full on/full off)		
Resolution	1,024 x 768*4		
Scanning frequency — RGB	Horizontal: 15-91 kHz, Vertical: 50-87 Hz		
Scanning frequency — YPBPR/YCBCR	480i(525i): fH 15.75 kHz; fV 60 Hz / 576i(625i): fH 15.63 kHz; fV 50 Hz	480p(525p): fH 31.50 kHz; fV 60 Hz / 576p(625p): fH 31.25 kHz; fV 50 Hz — 720p(750p): fH 45.00 kHz; fV 60 Hz / 720p(750p): fH 37.50 kHz; fV 50 Hz	1080i(1125i): fH 33.75 kHz; fV 60 Hz / 1080i(1125i): fH 28.13 kHz; fV 50 Hz
Scanning frequency — 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	5:1 (fixed)		10:-0.5 (fixed)
Installation	Front/rear ceiling/desk (menu selection)		
Terminals — COMPUTER 1 IN	D-sub HD 15-pin x 1 (RGB/YPBPR/YCBCR x 1)		
Terminals — COMPUTER 2 IN	D-sub HD 15-pin x 1 (RGB/YPBPR/YCBCR x 1)		
Terminals — VIDEO IN	RCA pin x 1 (Composite video x 1)		
Terminals — S-VIDEO IN	Mini DIN 4-pin x 1 (S-Video x 1)		
Terminals — AUDIO IN	M3 x 2 (L-R x 2)		
Terminals — VARIABLE AUDIO OUT	M3 x 1 (L-R x 1)		
Terminals — SERIAL	D-sub 9-pin x 1 (RS-232C)		
Terminals — LAN	RJ-45 x 1, compatible with PJLink™ (class 1), 10BASE-T/100BASE-TX		
Cabinet material	Moulded plastic (PC+ABS)		
Dimensions (W x H x D)	307 x 69 x 210 mm (12″ x 2-5/7″ x 8-1/14″)*5		327 x 117.5 x 308 mm (12-7/8″ x 4-5/6″ x 12-1/8″)*5
Weight*6	Approx. 2.3 kg (5.07 lbs.)		Less than 3 kg (Less than 6.6 lb)
Operation environment	Temperature: 0°-40°C*7 (32°-104°F), Humidity: 20%-80% (no condensation)		
Supplied accessories	Power cord, power cord secure lock, wireless remote control, batteries for remote control (AA type x2 for North/South America, R6/LR6 type x2 for Europe/Asia), VGA cable, carrying bag, Application software (CD-ROM)		Power cord, power cord secure lock, wireless remote control, batteries for remote control (AA type x2 for North/South America, R6/LR6 type x2 for Europe/Asia), VGA cable, Application software (CD-ROM)

*1: In eco standby mode, network functions such as Standby On via LAN are not available, and only certain commands can be received from RS-232C control.
*2: The above value is the maximum cycle for projector usage in which the lamp is turned on for 3.5 hours and then off for 30 minutes. The lamp replacement cycle will be shorter if the lamp is turned on more frequently or if it is kept on consecutively for a longer period of time.
*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.
*7: The operating temperature range is 0°C (32°F) to 35°C (95°F) when used in High-Altitude mode (1,400 to 2,700 m (4,593 to 8,858 feet)). Also, in Lamp Normal mode, if the ambient temperature exceeds 35°C (95°F)(30°C (85°F) in High-Altitude mode), the light output may be reduced approximately 30% to protect the projector.

Projection Distance

PT-LB2/LB1 (Screen aspect ratio = 4:3)

Project size (diagonal)	[PT-LB2] Projection distance (L) Min (wide)	[PT-LB2] Projection distance (L) Max (telephoto)	[PT-LB1] Projection distance (L) Min (wide)	[PT-LB1] Projection distance (L) Max (telephoto)	Height from the edge of screen to center of lens (H)
33″	-	1.1 m (3.6′)	-	1.1 m (3.6′)	0.08 m (0.26′)
40″	1.1 m (3.6′)	1.4 m (4.6′)	1.2 m (3.9′)	1.4 m (4.6′)	0.10 m (0.32′)
50″	1.4 m (4.6′)	1.7 m (5.6′)	1.5 m (4.9′)	1.8 m (5.9′)	0.13 m (0.43′)
60″	1.7 m (5.6′)	2.1 m (6.9′)	1.8 m (5.9′)	2.1 m (6.9′)	0.15 m (0.49′)
70″	2.0 m (6.6′)	2.4 m (7.9′)	2.1 m (6.9′)	2.5 m (8.2′)	0.18 m (0.59′)
80″	2.3 m (7.5′)	2.8 m (9.2′)	2.4 m (7.9′)	2.8 m (9.2′)	0.20 m (0.66′)
90″	2.6 m (8.5′)	3.1 m (10.1′)	2.7 m (8.8′)	3.2 m (10.5′)	0.23 m (0.75′)
100″	2.9 m (9.5′)	3.5 m (11.5′)	3.0 m (9.8′)	3.5 m (11.5′)	0.25 m (0.82′)
120″	3.5 m (11.5′)	4.2 m (13.8′)	3.6 m (11.8′)	4.3 m (14.1′)	0.30 m (0.98′)
150″	4.4 m (14.4′)	5.2 m (17.1′)	4.5 m (14.8′)	5.3 m (17.4′)	0.38 m (1.25′)
200″	5.8 m (19.0′)	7.0 m (23.0′)	6.0 m (19.7′)	7.1 m (23.3′)	0.51 m (1.67′)
250″	7.3 m (24.0′)	8.7 m (28.5′)	7.5 m (24.6′)	8.9 m (29.2′)	0.64 m (2.10′)
300″	8.7 m (28.5′)	10.5 m (34.4′)	9.0 m (29.5′)	10.7 m (35.1′)	0.76 m (2.49′)

PT-ST10 (Screen aspect ratio = 4:3)

Project size (diagonal)	Projection distance (L)	Height from the edge of screen to center of lens (H)
50″	0.50 m (1.64′)	-0.04 m (-0.13′)
60″	0.60 m (1.97′)	-0.05 m (-0.16′)
70″	0.71 m (2.33′)	-0.05 m (-0.16′)
80″	0.82 m (2.69′)	-0.06 m (-0.20′)
90″	0.92 m (3.02′)	-0.06 m (-0.20′)
100″	1.03 m (3.38′)	-0.08 m (-0.26′)
110″	1.14 m (3.74′)	-0.08 m (-0.26′)

Optional Accessories

Air filter unit: ET-KFB2
Replacement lamp unit: ET-LAB2
Ceiling mount bracket: ET-PKB2

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 projector includes consumable parts. The frequency of replacement for the lamp and other consumable parts will increase if the projector is subjected to extended, continuous use. For details, please consult a service representative.

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