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High Brightness in a Compact Body.
Portable Projectors with Advanced Eco Performance.
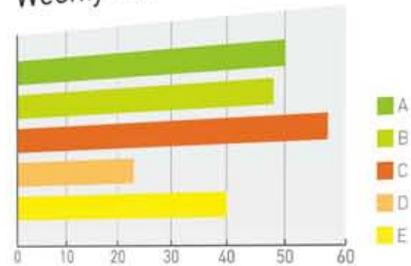
Enhanced Basic Performance in a Compact, 3.5-kg (7.7-lb) Body.
Setting a New Standard for Portable Projectors.

The PT-VW330 Series portable projectors offer high brightness in a compact, 3.5-kg (7.7-lb) body. These models also feature a wide range of functions that greatly reduce the hassle and cost of maintenance, such as a lamp replacement cycle of up-to-5,000 hours[1] and an air filter replacement cycle of up-to-6,000 hours.[2] A newly developed intelligent lamp control system effectively reduces power consumption. These advanced models provide powerful visual support with superb performance while minimizing environmental impact.

PT-**VW330**[*]

WXGA	3,000 lm	Side-by-Side/P-in-P

PT-**VX400**[*]

XGA	4,000 lm

* Product numbers vary depending on the market. The product number in North America and Taiwan is PT-VW330U and PT-VX400U. The product number in Europe (except UK) and CIS is PT-VW330E and PT-VX400E. The product number in UK, Asia (except Taiwan), Oceania, Middle East, and Africa is PT-VW330EA and PT-VX400EA.

Superb Basic Performance in a Compact, 3.5-kg (7.7-lb) Body

A Full 4,000 lm/3,000 lm[3] of Brightness and 2,000:1 Contrast

A remarkable 4,000 lm/3,000 lm[3] of brightness and 2,000:1 contrast have been achieved in a compact, easy-to-carry, 3.5-kg (7.7-lb) body. Bright, clear images enhance a variety of viewing situations and applications.

A Maximum 5,000-Hour[1] Lamp Replacement Cycle and 6,000-Hour[2] Air Filter Replacement Cycle

These handy portables offer a lamp replacement cycle of up-to-5,000 hours[1] for extended, maintenance-free use. Three-layered air filters, in which each layer contains a different mesh size, are installed in two parts of the body. Increasing the filters' surface area made it possible to achieve a replacement cycle of up-to-6,000 hours.[2] This reduces maintenance hassles for long periods of use, and helps to lower maintenance costs and reduce environmental impact.

▌Air Filter Unit

3-Layer Air Filter

Metal mesh	Urethane	Hole punched (metal)

Dust	○ Large	● Medium	○ Small

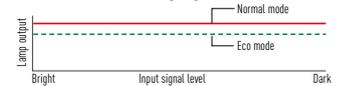### Quiet 29-dB[4] Design Does Not Interrupt Meetings or Classes

The quiet design keeps noise levels down to 29 dB,[4] so the sound of the cooling fan is hardly noticeable. This helps the audience to keep their attention on the speech when someone is giving a presentation or on the screen images during quiet scenes.
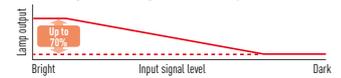
Versatile Eco Performance Helps the Environment

Intelligent Lamp Control System Reduces Power Consumption

When the lamp power is set to Auto, the intelligent lamp control system automatically adjusts the lamp output in accordance with the brightness of the projected image and reduces it by up to 70%. It also combines with color shift correction, which corrects the shift in the color balance that occurs when the lamp output reduces. As a result, power consumption is effectively reduced while excellent color reproduction is maintained.

▌**Conventional Lamp System**

Lamp output — Normal mode / Eco mode
Bright — Input signal level — Dark

▌**Intelligent Lamp Control System**

Up to 70%
Lamp output
Bright — Input signal level — Dark

Bright scene   Dark scene

Displaying the Total Amount of Reduced Power Consumption and CO_2 Emission

When the lamp power is set to Eco1, Eco2 or Auto, you can display the total amount of reduced power consumption and decreased CO_2 emission compared to when the lamp power is set to Normal. It can be shown by day, month or year. Quantitatively checking these reductions helps to increase the awareness of energy saving and the environment.

Environmentally Friendly Standby Power Consumption of Only 0.48 W[5]

When Standby mode is set to Eco, the standby power consumption is low at 0.48 W.[5] This lowers running costs, and helps to reduce environment impact.

1.6x Zoom Lens Allows Flexible Installation

When projecting onto a 100-inch wide screen, the 1.6x zooms lens lets the PT-VW330, for example, support a wide range of projection distances, from 2.5 to 4.1 meters (8.2 to 13.5 feet).

Auto Input Signal Search and Input Guidance Enables Easy Setup

The Auto Input Signal Search function automatically detects the input signal and selects the input channel based on the signal. This function lets you start a presentation without any complicated setup required. If the input signal cannot be detected, the Input Guidance function will display connection instructions on the projector screen, for easy setup.

10-Watt Speakers and a Microphone Input Enables Audio Playback Directly from the Projector

These portable projectors feature high-output 10-watt speakers that produce a high sound volume without requiring external speakers. They also feature a microphone input terminal that allows microphone sounds to be output from the projector. These features make presentations even more effective.
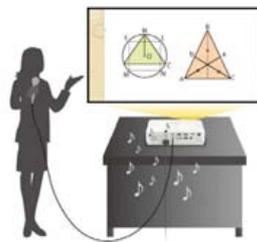
## HDMI Input Terminal and Abundant Interfaces

Extensive interfaces include an HDMI input terminal, 2 sets of computer (RGB) input terminals, a wired LAN terminal, and a serial (RS-232C) terminal for external control. These features support a wide range of system architectures for portable or ceiling-mounted use.

## Easy Remote Monitoring and Control over a LAN

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 available 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.

▌ Basic concept of the Multi Projector Monitoring and Control Software

Auditorium
Seminar room
Lecture room
Classroom
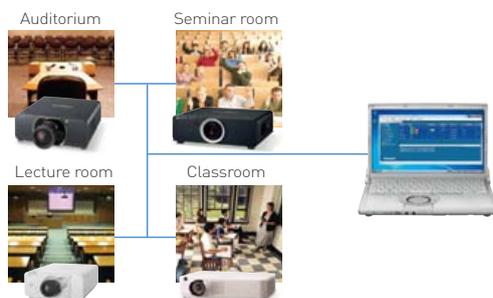
Side-by-Side and P-in-P Function*[6] (PT-VW330) for Effective Presentations and Lectures

Two different image sources can be simultaneously displayed onto a single screen. You can also switch to P-in-P (Picture-in-Picture) mode and display a sub-window onto the main screen. The sub-window can be positioned at any of the four corners (upper left, upper right, lower left, lower right) to expand the usable area as only a wide-screen projector can do.
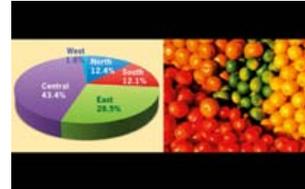
Side-by-Side Mode   **P-in-P Mode**

Top-Panel Lamp Replacement Simplifies Maintenance

The lamp can be reached through the top panel for easy replacement. This eliminates the need to detach the projector from its ceiling bracket and greatly simplifies maintenance.

Convenient Carrying Bag

A carrying bag with a handy shoulder strap comes with the projector. This bag helps protect the projector from impacts.

Other Features

- Direct Power Off right after use
- Effective theft prevention with the startup logo*[7]
- Projector identification system for remote control allocation of up to six projectors
- Built-in closed caption decoder

*Remote control for the PT-VW330.

Ecology-Conscious Design

- No halogenated flame retardants are used in the cabinet.
- Lead-free glass is used for the lens.
- Lamp power switching further reduces power consumption.
- Standby power consumption of only 0.48 W*[5] has been achieved.
- RoHS compliant

*1 This is the maximum value when the lamp power is set to Eco1, Eco2, with the lamp turned on for 2 hours and off for 0.25 hours. Increases in the lamp on cycle or extended use with the lamp continuously turned on will shorten the lamp replacement cycle. When the lamp power is set to Normal, the lamp replacement cycle is 3,000 hours.The usage environment affects the lamp replacement cycle.
*2 With the lamp power set to Eco1, Eco2. The usage environment affects the duration of the filter.
*3 The PT-VX400 has 4,000 lm and the PT-VW330 has 3,000 lm of brightness.
*4 With the lamp power set to Eco1, Eco2.
*5 Standby mode: Eco. When Standby mode is set to Eco, network functions such as standby on via LAN are not available. Also, only certain commands can be received for external control using the serial terminal.
*6 This function is not effective for some source combinations.
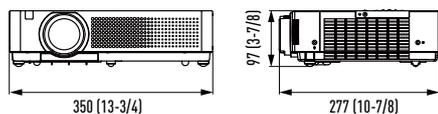*7 The included Logo Transfer Software is required to upload a new logo.

Specifications

Model		PT-VW330	PT-VX400
Power supply		100–240 V AC, 50/60 Hz	
Power consumption		322 W (0.48 W when standby mode set to Eco*¹, 12.5 W when standby mode set to Network.)	322 W (0.48 W when standby mode set to Eco*¹, 10.0 W when standby mode set to Network.)
LCD panel	Panel size	15 mm (0.59 inches) diagonal (16:10 aspect ratio)	16 mm (0.63 inches) diagonal (4:3 aspect ratio)
	Display method	Transparent LCD panel (x 3, R/G/B)	
	Pixels	1,024,000 (1,280 × 800) × 3, total of 3,072,000 pixels	786,432 (1,024 × 768) × 3, total of 2,359,296 pixels
Lens		1.6x manual zoom (throw ratio: 1.2–1.9:1), manual focus, F 1.65–2.33, f 15.47–24.53 mm	
Lamp		245 W × 1, lamp replacement cycle (lamp power: Normal/Eco1, Eco2): 3,000 hours/5,000 hours*²	
Screen size (diagonal)		0.76–7.62 m (30–300 inch)	
Brightness*³		3,000 lm (lamp power: Auto/Normal)	4,000 lm (lamp power: Auto/Normal)
Center-to-corner uniformity*³		85%	
Contrast*³		2,000:1 (full on/full off, lamp power: Auto)	
Resolution		1,280 × 800 pixels (Input signals that exceed this resolution will be converted to 1,280 × 800 pixels.)	1,024 × 768 pixels (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.)
Scanning frequency	HDMI	Horizontal: 15–80 kHz, vertical: 50–85 Hz, dot clock: 162 MHz or lower	
	RGB (analog)	fH: 15–100 kHz, fV: 50–100 Hz, dot clock: 140 MHz or lower (Signals exceeding the dot clock rate of 140 MHz are downsampled.)	
	YPBPR (YCBCR)	fH: 15.75 kHz, fV: 60 Hz [480i(525i)] fH: 31.50 kHz, fV: 60 Hz [480p(525p)] fH: 45.00 kHz, fV: 60 Hz [720(750)/60p] fH: 33.75 kHz, fV: 60 Hz [1080(1125)/60i]	fH: 15.63 kHz, fV: 50 Hz [576i(625i)] fH: 31.25 kHz, fV: 50 Hz [576p(625p)] fH: 37.50 kHz, fV: 50 Hz [720(750)/50p] fH: 28.13 kHz, fV: 50 Hz [1080(1125)/50i]
	Video/S-Video	fH: 15.75 kHz, fV: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60], fH: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/SECAM]	
Optical axis shift		49:1	9:1
Keystone correction range		Vertical: ±30% (±20% when Auto Keystone)	
Installation		Ceiling/floor, front/rear	
Terminals	HDMI IN	HDMI 19-pin × 1 (compatible with HDCP) 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, VGA (640 x 480)–WUXGA (1,920 x 1,200)*⁴, compatible with non-interlaced signals only, dot clock: 25 -162 MHz	
	COMPUTER IN 1	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR)	
	COMPUTER IN 2 / MONITOR OUT	D-sub HD 15-pin (female) x 1 (RGB×1), (input/output selectable using on-screen menu) (When Monitor Out is selected, the COMPUTER IN 1 signal is output.)	
	VIDEO IN	RCA pin × 1 (composite video)	
	S-VIDEO IN	Mini DIN 4-pin × 1 (S-Video)	
	AUDIO IN	RCA pin x 2 (L-R x 1) for VIDEO/S-VIDEO input	
	COMPUTER AUDIO IN 1	M3 x 1 (L-R x 1)	
	COMPUTER AUDIO IN 2 (MIC IN)	M3 x 1 (L-R x 1) for audio input or for microphone connection (variable)	
	AUDIO OUT	M3 x 1 (L-R x 1) for output (variable)	
	SERIAL IN	D-sub 9-pin (male) × 1 for external control (RS-232C compliant)	
	LAN	RJ-45 × 1 (for network connection, 10Base-T/100Base-TX, compliant with PJLink™ (class 1))	
Built-in speaker		3.7 cm round shape × 1, output power: 10 W (monaural)	
Noise level		35 dB (lamp power: Normal), 29 dB (lamp power: Eco1, Eco2)	
Cabinet materials		Molded plastic	
Dimensions (W × H × D)		350 x 97 x 277 mm (13.8" x 3.8" x 10.9") (with legs at shortest position, not including protruding parts)	
Weight		Approximately 3.5 kg (7.7 lbs)	
Operating environment		Operating temperature: 5°C–35°C (41°F–95°F), operating humidity: 20%-80% (no condensation)	
Supplied accessories		Power cord x 1 (x 2 for PT-VW330EA/VX400EA), wireless remote control unit, batteries (R03/AAA type × 2), carrying bag x 1, VGA cable x 1, filter cover, software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software)	

*1 When Standby mode is set to Eco, network functions such as standby on via LAN are not available. Also, only certain commands can be received for external control using the serial terminal. *2 The values given for the recommended lamp replacement cycles are maximum. *3 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *4 Compliant with VESA CVT-RB. *5 There is no guarantee of the lens performance when the projection distance exceeds 8.0 m (26.2 feet).

Projection distance
unit: meters (feet)

Upper edge of projected image
Projected image
Lower edge of projected image

PT-VW330 (16:10 aspect ratio; throw ratio: 1.2–1.9:1)

Diagonal image size	Projection distance (L)		Height from the edge of screen to center of lens (H)
	min.(wide)	max.(tele)	
0.76 [30"]	0.7 (2.3)	1.2 (3.9)	0.01 (0.03)
1.02 [40"]	1.0 (3.3)	1.6 (5.2)	0.01 (0.03)
1.27 [50"]	1.3 (4.3)	2.0 (6.6)	0.01 (0.03)
1.52 [60"]	1.5 (4.9)	2.5 (8.2)	0.02 (0.07)
1.78 [70"]	1.8 (5.9)	2.9 (9.5)	0.02 (0.07)
2.03 [80"]	2.0 (6.6)	3.3 (10.8)	0.02 (0.07)
2.29 [90"]	2.3 (7.5)	3.7 (12.1)	0.02 (0.07)
2.54 [100"]	2.5 (8.2)	4.1 (13.5)	0.03 (0.1)
3.05 [120"]	3.1 (10.2)	4.9 (16.1)	0.03 (0.1)
3.81 [150"]	3.8 (12.5)	6.2 (20.3)	0.04 (0.13)
5.08 [200"]	5.1 (16.7)	8.0 (26.2)*⁵	0.05 (0.16)
6.35 [250"]	6.4 (21.0)	8.0 (26.2)*⁵	0.07 (0.23)
7.62 [300"]	7.7 (25.3)	8.0 (26.2)*⁵	0.08 (0.26)

PT-VX400 (4:3 aspect ratio; throw ratio: 1.2–1.9:1)

Diagonal image size	Projection distance (L)		Height from the edge of screen to center of lens (H)
	min.(wide)	max.(tele)	
0.76 [30"]	0.7 (2.3)	1.1 (3.6)	0.05 (0.16)
1.02 [40"]	1.0 (3.0)	1.5 (4.9)	0.06 (0.2)
1.27 [50"]	1.2 (3.9)	1.9 (6.2)	0.08 (0.26)
1.52 [60"]	1.4 (4.6)	2.3 (7.5)	0.09 (0.3)
1.78 [70"]	1.7 (5.6)	2.7 (8.9)	0.11 (0.36)
2.03 [80"]	1.9 (6.2)	3.1 (10.2)	0.12 (0.39)
2.29 [90"]	2.2 (7.2)	3.5 (11.5)	0.14 (0.46)
2.54 [100"]	2.4 (7.9)	3.9 (12.8)	0.15 (0.49)
3.05 [120"]	2.9 (9.5)	4.7 (15.4)	0.18 (0.59)
3.81 [150"]	3.6 (11.8)	5.8 (19.0)	0.23 (0.75)
5.08 [200"]	4.8 (15.7)	7.8 (25.6)	0.31 (1.02)
6.35 [250"]	6.0 (19.7)	8.0 (26.2)*⁵	0.38 (1.25)
7.62 [300"]	7.2 (23.6)	8.0 (26.2)*⁵	0.46 (1.51)

Dimensions
unit: mm (inch)

350 (13-3/4) 97 (3-7/8) 277 (10-7/8)

Optional accessories

Replacement lamp unit **ET-LAV100**	Replacement filter unit **ET-RFV100**	Ceiling mount bracket for high ceilings*⁶ **ET-PKV100H**	Ceiling mount bracket for low ceilings*⁶ **ET-PKV100S**	Bracket assembly **ET-PKV100B**

*6 This product is used together with an optional bracket assembly (sold separately).

Caution

Do not install the projector in locations that are subject to excessive water, humidity, steam or oily smoke. Doing so may result in fire, malfunction or electric shock.

NOTE ON USE

1 The projector uses a high-voltage mercury lamp under high internal pressure. This lamp may break, emitting a popping sound, or fail to illuminate, due to impact or extended use.
2 The high-wattage lamp becomes very hot during operation. Please observe the following precautions:
 • Never place objects on top of the projector while it is in operation.
 • Make sure there is an unobstructed space of 1,000 mm (39-3/8 in) or more around the projector's exhaust openings.
 • If stacking projector units, care must be taken to provide the recommended space between units. These space requirements also apply to installation where only one projector unit is operating at one time and the other unit is used as a backup.

 • If the projector is placed in a box or enclosure, the temperature of the air surrounding the projector must match the operating temperature listed in the specifications table during use. Also, make sure the projector's intake and exhaust openings are not blocked. Ensure there is sufficient ventilation to prevent hot air from the exhaust openings being recirculated into the intake opening.
3 The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.
 • The lamp replacement cycle varies greatly depending on individual lamp characteristics and usage conditions.
 • The brightness of the lamp will gradually decrease with use.
4 Due to natural characteristics of lamps, screen brightness may fluctuate. This is not an indication of faulty lamp performance.
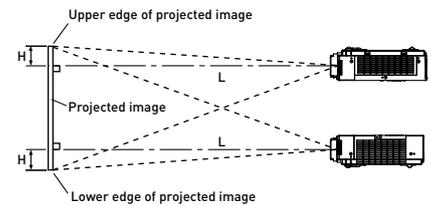
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For more information about Panasonic projectors
>>> http://panasonic.net/avc/projector

All information included here is valid as of August 2011.