

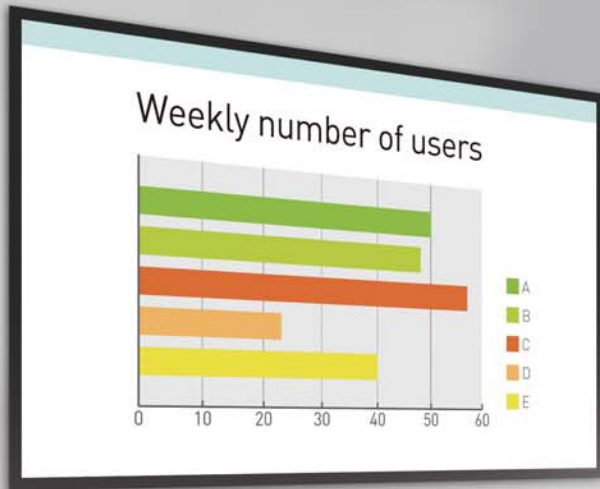
Panasonic

ideas for life

PT-VW330 Series

LCD Projectors

PT-VW330
PT-VX400NT
PT-VX400



**High Brightness and Advanced
Eco Performance in a Compact Body.
Wireless Projection for Smarter
Presentations.***

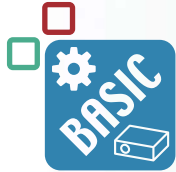
* Wireless projection: PT-VX400NT only.



Enhanced Performance in a Compact, Lightweight Body. Advanced Eco Performance, Easy Setting and Wireless Projection Set a New Standard for Portable Projectors.

The PT-VW330 Series portable projectors offer high brightness in a compact body, weighing 3.6 kg (7.9 lb) or less.* These models 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** and an air filter replacement cycle of up to 6,000 hours.***

A newly developed intelligent lamp control system effectively reduces power consumption. Plus, the Easy Setting function and wireless LAN featured in the PT-VX400NT model simplify setup and optimize presentations. These advanced models provide powerful visual support with superb performance while minimizing environmental impact.



Superb Performance

High brightness and contrast are achieved in a lightweight, compact body. The projectors are easy to carry around, and provide bright, clear images in a wide variety of situations.



Ecological Performance

Starting with an intelligent lamp control system that effectively reduces power consumption, a highly advanced ecological performance lowers running costs and reduces the impact on the environment.



Convenient Functions

A host of versatile functions support flexible installation and setup. And the PT-VX400NT also allows wireless projection from a personal computer or iOS device to further expand presentation possibilities.



* Featured image: PT-VX400NT

* Weight by model: PT-VX400NT: approx. 3.6 kg (7.9 lb), PT-VW330/VX400: approx. 3.5 kg (7.7 lb).

** This is the maximum value when the lamp power is set to Eco1 or Eco2, with the lamp turned on for 2 hours and off for 0.25 hour. 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.

*** With the lamp power set to Eco1 or Eco2. The usage environment affects the duration of the filter.

Superb Performance in a Compact, 3.6-kg (7.9-lb) Body*1

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

VW330 VX400NT VX400

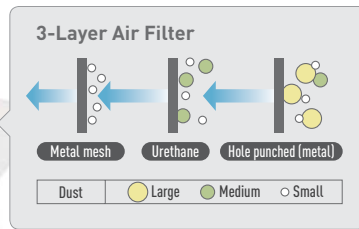
A remarkable 4,000 lm/3,000 lm*2 of brightness and 2,000:1 contrast have been achieved in a compact, easy-to-carry body, weighing only 3.6 kg (7.9 lb) or less.*1 Bright, clear images enhance a variety of viewing situations and applications.

A Maximum 5,000-Hour*3 Lamp Replacement Cycle and 6,000-Hour*4 Air Filter Replacement Cycle

VW330 VX400NT VX400

These handy portables offer a lamp replacement cycle of up to 5,000 hours*3 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.*4 This reduces maintenance hassles for long periods of use, and helps to lower maintenance costs and reduce environmental impact.

Air Filter Unit



Quiet 29-dB*5 Design Does Not Interrupt Meetings or Classes

VW330 VX400NT VX400

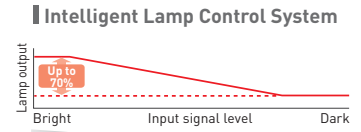
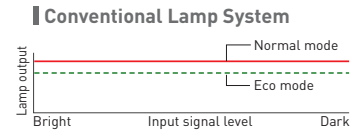
The quiet design keeps noise levels down to 29 dB,*5 so the sound of the cooling fan is hardly noticeable. This helps the audience to keep their attention on the speech when someone is giving a presentation or on the screen images during quiet scenes.

Versatile Eco Performance Helps the Environment

Intelligent Lamp Control System Reduces Power Consumption

VW330 VX400NT VX400

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 drops. As a result, power consumption is effectively reduced while excellent color reproduction is maintained.



Bright scene

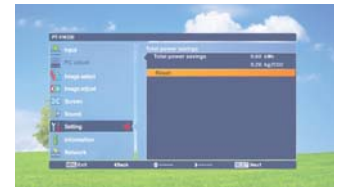


Dark scene

Displaying the Total Amount of Reduced Power Consumption and CO₂ Emission

VW330 VX400NT VX400

When the lamp power is set to Eco1, Eco2 or Auto, you can display the total amount of reduced power consumption and decreased CO₂ emission compared to when the lamp power is set to Normal. It can be shown by day, month or year. Quantitatively checking these reduction amounts helps to increase the awareness of energy saving and the environment.



Environmentally Friendly Standby Power Consumption of Only 0.48 W*6

VW330 VX400NT VX400

When the Standby mode is set to Eco, the standby power consumption is low at 0.48 W.*6 This lowers running costs, and helps to reduce environment impact.



PT-VW330*

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

PT-VX400NT*

XGA 4,000 lm Wireless Function

PT-VX400*

XGA 4,000 lm

* Product numbers vary depending on the market. The product number in North America and Taiwan is PT-VW330U, VX400NTU and PT-VX400U. The product number in Europe (except UK) and CIS is PT-VW330E, VX400NTE and PT-VX400E. The product number in UK, Asia (except Taiwan), Oceania, Middle East, and Africa is PT-VW330EA, VX400NTEA and PT-VX400EA.

*1 Weight by model: PT-VX400NT: approx. 3.6 kg [7.9 lb], PT-VW330/VX400: approx. 3.5 kg [7.7 lb]. *2 The PT-VX400NT/VX400 has 4,000 lm and the PT-VW330 has 3,000 lm of brightness. *3 This is the maximum value when the lamp power is set to Eco1 or Eco2, with the lamp turned on for 2 hours and off for 0.25 hour. 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. *4 With the lamp power set to Eco1 or Eco2. The usage environment affects the duration of the filter. *5 With the lamp power set to Eco1 or Eco2. *6 Standby mode: Eco. When the 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.

Convenient Functions for Portable and Ceiling-Mounted Applications

Easy Wireless Projection from Multiple PCs

VX400NT

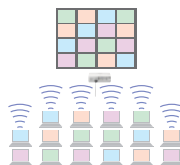
The Wireless Manager ME5.5 application*7 provided with the projector allows easy transfer of data*8 from the screen of a personal computer through a wired or wireless*9 LAN connection. It can be used to transfer audio*10 files. When a wireless LAN connection is used, there is no need to connect a VGA cable between the computer and projector; therefore, it allows easy and speedy setup, and a flexible system layout. Screen images from multiple computers can also be projected, and Multi-Live mode allows the simultaneous projection of up to 16 computers.



Four-Window Multi Style
displays up to four computer screens at a time.



Four-Window Index Style
displays thumbnails of four computer screens.



16-Window Index Style
displays thumbnails of 16 computer screens.

For more information about the Wireless Manager ME5.5 application, please visit <http://panasonic.net/avc/projector/products/vw330/>

Wireless Projection from iPad/iPhone

VX400NT

The "Panasonic Wireless Projector for iOS" application, which is free and available on the App Store, allows wireless projection from an iPad, iPhone or iPod touch. You can send PDF files transferred from a PC via iTunes to the Documents*11 folder of this application, and JPEG images saved to the Photos*11 folder of your iPad, iPhone or iPod touch. You can also project websites with the built-in web browser, and photos taken with the built-in camera iOS devices. Presentations can be done using only the wireless projector and an iPad, iPhone or iPod touch. Various touch screen operations, such as rotating the direction of the screen, flicking to turn pages, and pinching to zoom in or out, are possible. For more information, please visit <http://panasonic.net/avc/projector/ios/>



USB Display Function for Easy Projection Using a USB Cable

VX400NT

By installing the Wireless Manager ME5.5 application in a personal computer in advance and connecting*12 the USB ports on the projector and the computer with a USB cable, Wireless Manager ME5.5 will automatically start up and output computer images and sound from the projector. Multi-Live mode and other functions can also be used in the same manner as when using a wireless connection.

USB Memory Viewer for Projection without a Personal Computer

VX400NT

JPG/BMP image files and text files stored on a USB memory device can be projected by simply inserting the USB memory device into the USB port of the PT-VX400NT. This makes it easy to give presentations without having to use a computer.



1.6x Zoom Lens Allows Flexible Installation

VW330

VX400NT

VX400

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).

A Wide Variety of Functions for Easy Setup

VW330

VX400NT

VX400

• Auto Input Signal Search

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.

• Input Guidance Function

If the input signal cannot be detected, the Input Guidance function will display connection instructions on the projector screen, for easy setup.

• Real-Time Keystone Correction*13

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.

• Color-board and Blackboard modes

Color-board and Blackboard modes adjust the colors to make high-quality projection possible in rooms that don't have a screen.

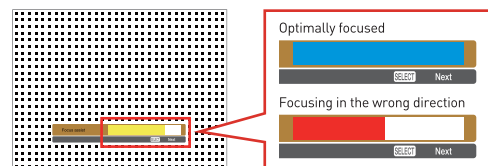
Easy Setting Function for Even Easier Setup

VX400NT

When the Auto Setup button is pressed, a camera inside the projector detects the condition of the projected image. In addition to Auto Input Signal Search and Auto Setup, the projector then makes the following adjustments. This makes setup even easier.

• Focus Assist

A focusing guide is displayed to help the focus adjustment.



• Screen Fitting

The projection screen size and horizontal/vertical Keystone correction (trapezoidal correction) are automatically adjusted to fit the screen.*14



• Wall Color Compensation

When projecting onto a colored wall, blackboard, or other similar surface, the white balance is automatically adjusted.



*7 This application is supported by Windows® XP/ Windows Vista®/ Windows® 7 and Macintosh OS (OS X Ver. 10.4/10.5/10.6/10.7). *8 DVD video, Blu-ray video and content set with DRM (Digital Rights Management) cannot be transferred. *9 If the computer is not equipped with a wireless LAN function, a wireless LAN card is required. In the case of Macintosh computers, only the built-in wireless LAN function is supported. Network functions such as Live mode and Multi-Live mode can also be used with a wired LAN. *10 Windows® 7/Vista® computers must be logged on to using the Administrator's account. The first time that a Windows® 7 computer is used, the sound driver may require setting. *11 Files that are saved anywhere other than these locations cannot be projected. Also, PDF files that contain animation, links, have open passwords, or have been scanned at high resolution cannot be sent. *12 The first time a USB cable is connected, a USB driver must be installed. *13 Keystone correction is performed in the PT-VX400NT when using the Easy Setting function. *14 If the screen border cannot be detected, the projection screen size adjustment is not made. In this case, only the horizontal/vertical Keystone correction is done.

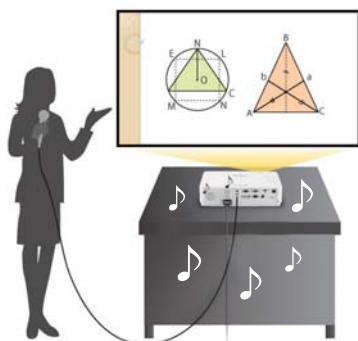
10-Watt Speakers and a Microphone Input Enables Audio Playback Directly from the Projector

VW330

VX400NT

VX400

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

VW330

VX400NT

VX400

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.



* Featured image: PT-VX400NT.

* The PT-VW330/VX400 are not equipped with USB A/USB B terminals.

Easy Remote Monitoring and Control over a LAN

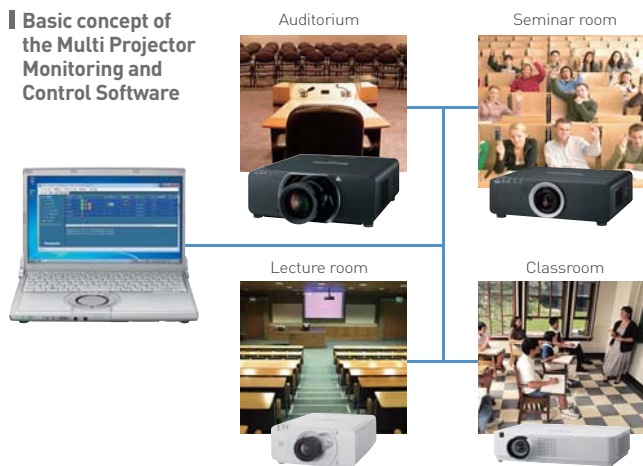
VW330

VX400NT

VX400

A web browser on a computer connected through a wired LAN^{*15} 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.

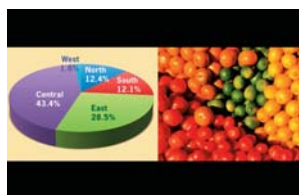
Basic concept of the Multi Projector Monitoring and Control Software



Side-by-Side and P-in-P Function*¹⁶ (PT-VW330) for Effective Presentations and Lectures

VW330

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

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

VW330

VX400NT

VX400

The Direct Power Off function keeps the cooling fan turned on even when you unplug the power cord right after use. This lets you put everything away and carry the projector quickly to your next presentation or lecture.



Top-Panel Lamp Replacement Simplifies Maintenance

VW330

VX400NT

VX400

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

VW330

VX400NT

VX400

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



Other Features

- Effective theft prevention with the startup logo^{*17}
- Projector identification system for remote control allocation of up to six projectors
- The Wireless Mouse function (PT-VX400NT only) enables you to operate a computer's mouse pointer by the projector's wireless remote control
- Built-in closed caption decoder

Ecology-Conscious Design

- No halogenated flame retardants are used in the cabinet.
- Lead-free glass is used for the lens.
- Lamp switching further reduces power consumption.
- Standby power consumption of only 0.48 W^{*18} has been achieved.
- RoHS compliant

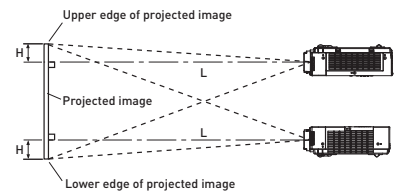
^{*15} The PT-VX400NT also supports a wireless LAN system. ^{*16} This function is not effective for some source combinations. ^{*17} The included Logo Transfer Software is required to upload a new logo.

^{*18} 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.

Specifications

Model	PT-VW330	PT-VX400NT	PT-VX400
Power supply	100-240 V AC, 50/60 Hz		
Power consumption	322 W [0.48 W when standby mode set to Eco*, 12.5 W when standby mode set to Network.]	322 W [0.48 W when standby mode set to Eco*, 14.5 W when standby mode set to Network.]	322 W [0.48 W when standby mode set to Eco*, 10.0 W when standby mode set to Network.]
Panel size	15 mm [0.59 inches] diagonal [16:10 aspect ratio]	16 mm [0.63 inches] diagonal [4:3 aspect ratio]	
LCD panel	Transparent LCD panel [x 3, R/G/B]		
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	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*4	1,024 × 768 pixels*5	
HDMI	fh: 25-80 kHz, fv: 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.]		
Scanning frequency	YpPr (YCbCr)		
	fh: 15.75 kHz, fv: 60 Hz [480i/525i]		
	fh: 15.63 kHz, fv: 50 Hz [576i/625i]		
	fh: 31.50 kHz, fv: 60 Hz [480p/525p]		
Video/S-Video	fh: 45.00 kHz, fv: 60 Hz [720/750i/60p]		
	fh: 37.50 kHz, fv: 50 Hz [720/750i/50p]		
	fh: 33.75 kHz, fv: 60 Hz [1080i/1125i/60i]		
	fh: 28.13 kHz, fv: 50 Hz [1080i/1125i/50i]		
Optical axis shift	49:1	9:1	
Keystone correction range	Vertical: ±30° (±20° when Real-Time Keystone)	Vertical: ±40°, Horizontal: ±30° (Vertical: ±30°, Horizontal: ±20° when Auto Keystone)	Vertical: ±30° (±20° when Real-Time Keystone)
Installation	Ceiling/floor, front/rear		
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 × 480)-WUXGA (1,920 × 1,200)*4, compatible with non-interlaced signals only, dot clock: 25-146.25 MHz		
COMPUTER IN 1	D-sub HD 15-pin [female] × 1 [RGB/YpPr/YCbCr × 1]		
COMPUTER IN 2 / MONITOR OUT	D-sub HD 15-pin [female] × 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 × 2 [L-R × 1] for VIDEO/S-VIDEO input		
COMPUTER AUDIO IN 1	M3 × 1 [L-R × 1]		
COMPUTER AUDIO IN 2 (MIC IN)	M3 × 1 [L-R × 1] for audio input or for microphone connection (variable)		
AUDIO OUT	M3 × 1 [L-R × 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)]		
USB A	—	USB type-A [for the USB Memory Viewer] × 1	—
USB B	—	USB type-B [for the USB Display/Wireless Mouse] × 1	—
Built-in speaker	3.7 cm round shape × 1, output power: 10.0 W [monaural]		
Noise level	35 dB [lamp power: Normal], 29 dB [lamp power: Eco1, Eco2]		
Cabinet materials	Molded plastic		
Dimensions (W × H × D)	350 × 97 × 277 mm [13.8" × 3.8" × 10.9"] (with legs at shortest position, not including protruding parts)		
Weight	Approximately 3.5 kg [7.7 lbs]	Approximately 3.6 kg [7.9 lbs]	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)		
Standard	—	IEEE802.11b/g/n	—
Wireless	Infrastructure mode	—	WPA-PSK [TKIP/AES], WPA2-PSK [TKIP/AES], 128 bit/64 bit WEP, WPA-EAP/WPA2-EAP [PEAP/MS-CHAPv2/GTC], EAP-FAST [MS-CHAPv2/GTC], EAP-TLS [MD5/MS-CHAPv2]
	Ad-hoc mode*7	—	128 bit/64 bit WEP
Supplied accessories	Power cord × 1*, wireless remote control unit, batteries [AAA/R03/LR03 type × 2], carrying bag × 1, RGB cable × 1, filter cover		
	Software CD-ROM [Logo Transfer Software, Multi Projector Monitoring & Control Software]	Software CD-ROM [Logo Transfer Software, Multi Projector Monitoring & Control Software, Wireless Manager ME 5.5]	Software CD-ROM [Logo Transfer Software, Multi Projector Monitoring & Control Software]

Projection distance unit: meters (feet)



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]**	0.05 [0.16]
6.35 [250"]	6.4 [21.0]	8.0 [26.2]**	0.07 [0.23]
7.62 [300"]	7.7 [25.3]	8.0 [26.2]**	0.08 [0.26]

PT-VX400NT/VX400

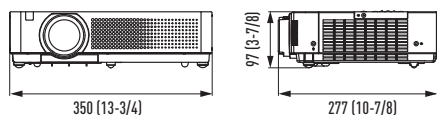
[4:3 aspect ratio; throw ratio: 1.2-1.9:1]

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]**	0.38 [1.25]
7.62 [300"]	7.2 [23.6]	8.0 [26.2]**	0.46 [1.51]

*1 When the 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 Input signals that exceed this resolution will be converted to 1,280 × 800 pixels. *5 Input signals that exceed this resolution will be converted to 1,024 × 768 pixels. *6 Compliant with VESA CVT-RB.
*7 Not supported by IEEE802.11n. *8 Power cords available [x 2] for the PT-VW330E/PT-VX400NTEA/VX400DEA. *9 There is no guarantee of the lens performance when the projection distance exceeds 8.0 m [26.2 feet].

Dimensions

unit: mm (inch)



Optional accessories

Replacement lamp unit
ET-LAV100



Replacement filter unit
ET-RFV100



Ceiling mount bracket for high ceilings*10
ET-PKV100H



Ceiling mount bracket for low ceilings*10
ET-PKV100S



Bracket assembly
ET-PKV100B



*10 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

- 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.
- 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.
- 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.
- Due to natural characteristics of lamps, screen brightness may fluctuate. This is not an indication of faulty lamp performance.

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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. 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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