Panasonic

BUSINESS

PT-**VZ580** Series
LCD Projectors

PT-**VZ585**N / PT-**VZ580**
PT-**VW545**N / PT-**VW540**
PT-**VX615**N / PT-**VX610**

PT-**VZ470**

BRIGHT IDEAS MAKE TEAMWORK EASY

Worldwide
Olympic Partner

Worldwide
Paralympic Partner

Work as a Team

Whatever personal devices you use in spaces large or small, sharing on the big screen is now easier than ever. With wireless and single-cable solutions, Miracast, plug-and-share playback, and apps for smartphone and PC, collaborative presentations are tailored to you.

Note: Features mentioned in this section are supported only with PT-VZ585N/VW545N/VX615N.

Choose Your Connection

The high-powered PT-VZ585N/VW545N/VX615N works comfortably in permanent or portable applications. We include our long-reach DIGITAL LINK single-cable solution and dual-band Wi-Fi for easy content transmission from any device.

Multi-Platform Support

Wireless casting is available for most smart devices, from Mac and Windows® laptops to iOS and Android™ devices. Solutions include free apps and PC software, support for media dongles, plug-and-share application that enables wireless projection with USB memory device pairing with the projector, and more.

Advanced Miracast

WI-FI CERTIFIED™ Miracast works for both PC and Android, and has cut connection time by a third. Transmit audio, video, still images, and web media at full size. PIN protection and exclusive moderator modes enhance security.
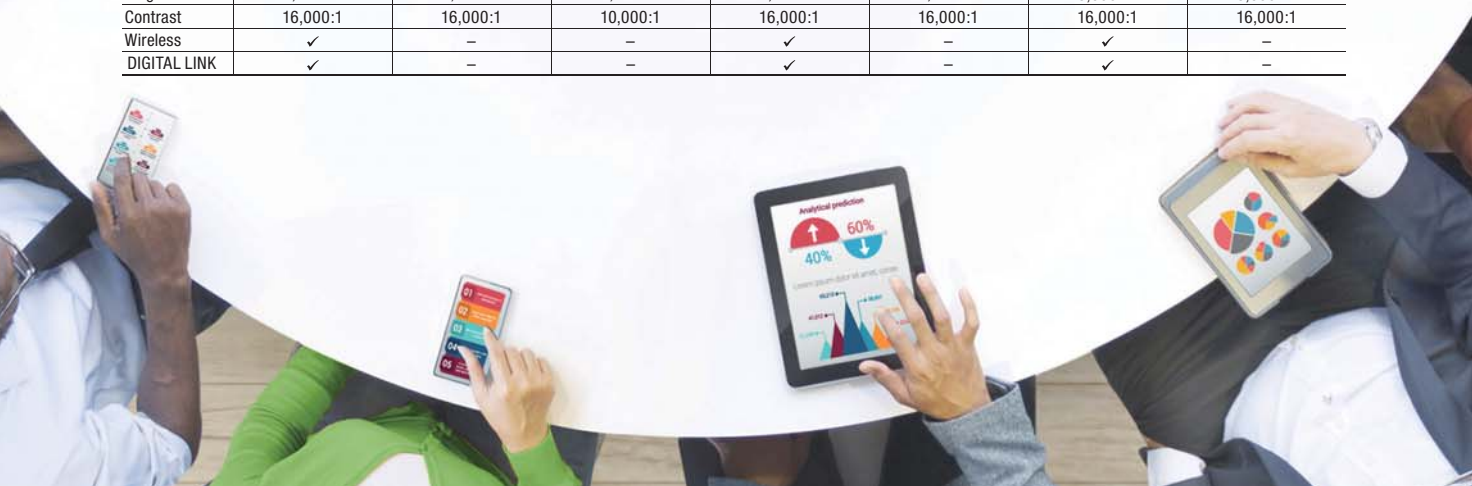
Memory Viewer

What could be simpler than loading your images and video onto a USB memory stick and plugging it in? Do it with the PT-VZ585N/VW545N/VX615N. Wide format support and easy operation assure a professional presentation.

PT-VZ580 Series LCD Projectors

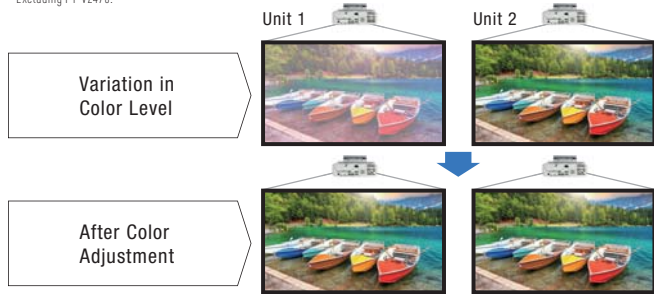|	PT-VZ585N	PT-VZ580	PT-VZ470	PT-VW545N	PT-VW540	PT-VX615N	PT-VX610
Resolution	WUXGA	WUXGA	WUXGA	WXGA	WXGA	XGA	XGA
Brightness	5,000 lm	5,000 lm	4,400 lm	5,500 lm	5,500 lm	5,500 lm	5,500 lm
Contrast	16,000:1	16,000:1	10,000:1	16,000:1	16,000:1	16,000:1	16,000:1
Wireless	✓	–	–	✓	–	✓	–
DIGITAL LINK	✓	–	–	✓	–	✓	–

Supreme Imaging Power

Brilliant High-Quality Pictures

WUXGA (1920 x 1200 pixel) resolution native to the PT-VZ585N/VZ580/VZ470 brings crisp Full HD to meeting spaces and classrooms for immersive viewing. With high brightness of up to 5,500 lm*[1], and an increased 16,000:1 contrast ratio*[2], your audience is treated to vivid colors, inky blacks, pure highlights, and clearly legible text reproduction.

6-Colors Adjustment and Color Correction Functions*

For the first time in a Panasonic portable, users can correct for slight color variations in the reproduction range of individual units set up for multi-projection. This is particularly useful for side-by-side configurations. Very large images can be seamlessly presented in auditoriums and boardrooms.
* Excluding PT-VZ470.

Unit 1   Unit 2

Variation in Color Level
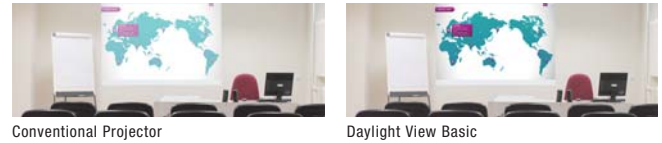
After Color Adjustment

Efficient Low-Maintenance Design

PT-VZ580 Series projectors are extremely efficient to run. Air filter replacement cycle is a class-leading 7,000 hours, and the unit can be washed and reused twice*[3] to minimize waste. Lamp life is also extended to 7,000 hours in ECO2 mode*[4], meaning part refreshment can be performed together with filter maintenance to reduce downtime.

Daylight View Basic

Proprietary technology delivers sharp, comfortably viewed images by enhancing fine details, particularly in dark areas of the image, which are normally difficult to see in brightly lit rooms. A built-in sensor measures ambient light while Daylight View Basic adjusts halftone color and brightness to suit ambient illumination.
* With Daylight View Basic set to AUTO mode.

Conventional Projector   Daylight View Basic

Quiet Operation

Technologies combine to keep noise levels down to just 29 dB*[5], so the sound of the cooling fan is hardly noticeable. This helps to keep attention focused on the presentation and quiet video scenes.

Flexible Wireless Collaboration

`VZ585N` `VW545N` `VX615N`

A Choice of Convenient Wireless Technologies

PT-VZ580 Series models with ¨N¨ designation include network capabilities to facilitate casting from iOS and Android™ devices, as well as from Windows® and Mac computers, with fast 3-step connection and wide media support.
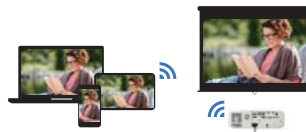
Miracast	Panasonic Wireless Projector	Wireless Manager	Plug and Share	Easy Wireless Stick*[8] (Option)
Windows® / Android™	Android™ / iOS	Windows® / Mac OS	Windows® / Mac OS	Windows® / Mac OS

Wi-Fi CERTIFIED™ Miracast
(PT-VZ585N/VW545N/VX615N Only)

`Windows®` `Android™`

Supported on Windows® PCs and Android™ devices, Miracast is a convenient low-latency protocol that provides high-bandwidth mirroring of video, stills, and web content with fast connection and a range of exclusive security features.

WiFi CERTIFIED

Full-screen Wireless Playback

Miracast supports stutter-free audio and Full HD video transmission from device to projector screen at 1:1.

Supports Multiple Display Modes

Easily control how content on your device is displayed on the big screen by selecting the appropriate mode.

Duplicate Mode
Mirror your device's screen on the projector screen.

Extend Mode
Use a projection surface as an extended PC screen.

Second Screen Only
Make the projector screen your PC screen.

Smartphone Tablet PC   PC   PC

Failsafe Transmission

To ensure confidential information isn't mistakenly transmitted to another display, users can enter a PIN code before casting media via Miracast.

Performance Improvements

Compared to Miracast on legacy PT-VZ570 Series projectors, connection time has been cut by about a third, and connectivity ratio increased by almost half.

Selectable Channels

Selectable 5 GHz/2.4 GHz channels are offered to provide a stable connection in rooms with network congestion or radio interference.

Moderator Mode and Cut-In Function
(PT-VZ585N/VW545N/VX615N Only)

`Windows®` `Android™`

Three modes allow the meeting chair to choose which participants' devices may display content or present content uninterrupted over Miracast. Interactive mode enables open chairing.
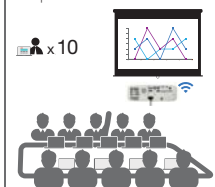
EXCLUSIVE
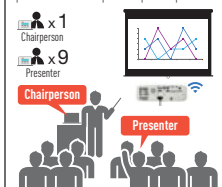One device connected to prevent interruptions to solo presentations.
x 1

INTERACTIVE
Up to 10 users can project at any time for open collaboration.
x 10

MODERATED
Chairperson controls media display permission for up to 10 participants.
x 1 Chairperson
x 9 Presenter
Chairperson
Presenter

Universal Device Support with Panasonic Apps (PT-VZ585N/VW545N/VX615N Only)

Panasonic offers free applications for smartphone, tablet, and personal computer that enable fast 3-step connection to get your media on the big screen without fuss. Further, a new plug-and-share feature allows your to cast from PC without software or driver installation.

Plug and Share
`Windows®` `Mac OS`

Insert a USB memory device into the projector port. In less than a minute, configuration setting files and an application are copied. Plug the USB memory device into your PC, click the player icon, and transmit video and stills wirelessly to the projector—no software or network setup required.

1. Insert a USB memory device to copy an application and network configuration files
2. Execute player installed on USB memory device
3. Project content wirelessly

Wireless Manager ME 6.4
`Windows®` `Mac OS`

Included Panasonic Wireless Manager software for Mac and Windows® PC lets you cast media from the screen of your computer via wireless LAN with a host of display options right at your fingertips.

Wireless Projector Apps
`Android™` `iOS`

Dedicated apps for iOS and Android™ devices feature simple 3-step initial connection and support a variety of media and business document transmission. These apps also allow SSID and key information to be easily obtained via a projected QR Code, again saving on setup time.

Multi-Projector Mode*
`Windows®` `Mac OS`

Applications for PC, iOS, Android, and the optional Easy Wireless Stick*8 dongle support Multi-Projector Mode. This function enables media display from up to 16 different devices in split-screen configuration. You can also transmit content from one PC to up to eight projectors or displays.

4-Window Multi Style   4-Window Index Style   16-Window Index Style

* The number of windows that can be projected simultaneously varies depending on application used. Please refer to operating instructions for the application.
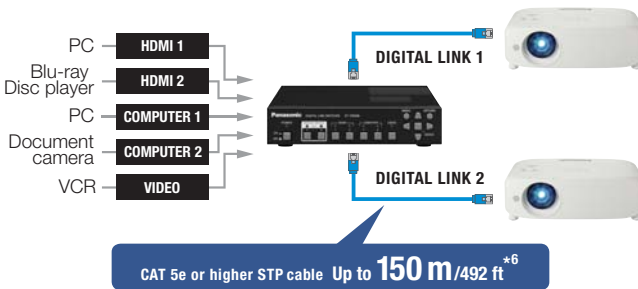

Single-Cable DIGITAL LINK Connection
(PT-VZ585N/VW545N/VX615N Only)

DIGITAL LINK transmits uncompressed video, audio, and control commands through a single CAT 5e or higher STP cable for distances of up to 150 m (492 ft)*6 in Long Reach Mode. Optional DIGITAL LINK Switcher or Digital Interface Box reduces cabling and associated costs by connecting multiple source devices and transmitting signals to the projector via a single cable.

DIGITAL LINK™
SINGLE CABLE SOLUTION

PC — HDMI 1
Blu-ray Disc player — HDMI 2
PC — COMPUTER 1
Document camera — COMPUTER 2
VCR — VIDEO

DIGITAL LINK 1
DIGITAL LINK 2

CAT 5e or higher STP cable Up to **150 m**/492 ft *6

Memory Viewer (PT-VZ585N/VW545N/VX615N Only)

You don't need a computer to start presenting—just insert a USB memory device containing media and start projecting straight away. This includes Full HD video as well as still images. A simple Graphical User Interface (GUI) assures a smooth and stress-free presentation.

Supports IEEE802.1X Protocol (PT-VZ585N/VW545N/VX615N Only)

Only authenticated users can connect to the IEEE802.1X network (EAP*7 over LAN), preventing access by unauthorized users. PT-VZ580 Series projectors are compatible with IEEE802.1X protocol over wired or wireless LAN.

Easy Wireless Stick*8 (PT-VZ585N/VW545N/VX615N Only)
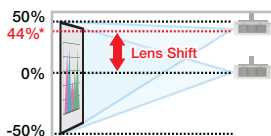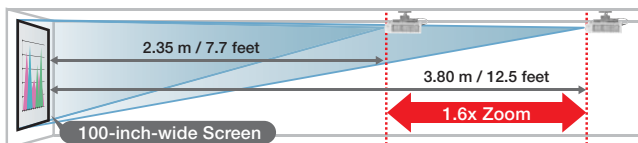`Windows®` `Mac OS`
ET-UW100 (Option)

Supporting a full suite of features and eliminating the need for software installation, the Easy Wireless Stick dongle lets you plug and project from PC instantly. After one-time initial setup, projection is automatic, and the device will display images from up to 16 computers at once, and is compatible with Windows® 10.

Stress-free Installation

1.6x Zoom Lens and Lens Shift Function

Zoom lens allows you to project from wide range of distances from tabletops or ceiling. Use vertical lens shift to quickly adjust image position without distortion.

2.35 m / 7.7 feet
3.80 m / 12.5 feet
1.6x Zoom
100-inch-wide Screen

50%
44%*
0%
-50%
Lens Shift

* 40 % for PT-VX615N/VX610.
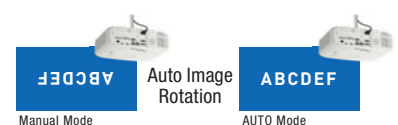Note: Diagram for PT-VZ585N/VZ580 shown.

Quick Lamp and Filter Replacement

To reduce hassle, the filter can be replaced via the side and the lamp from the top of the projector. There's no need to remove the unit from its ceiling mount for periodic maintenance.

Auto Screen Image Rotation

Images are automatically*9 rotated depending on installation orientation—upside down on the ceiling or set on a table—using a built-in angle sensor.

ABCDEF   Auto Image Rotation   ABCDEF
Manual Mode   AUTO Mode

*6 150 m (492 ft) transmission available only with ET-YFB200G DIGITAL LINK Switcher in Long Reach Mode for signals up to 1080p. *7 EAP: Extensible Authentication Protocol. *8 Availability of the ET-UW100 Easy Wireless Stick varies depending on country. *9 Manual setting also available via setup menu.

Horizontal, Vertical, and Corner Keystone Correction

Horizontal, vertical, and corner keystone correction adjusts the image shape for clear visibility when projecting off-axis or from an unusual angle.

Vertical, Horizontal, and Corner Keystone Correction

Vertical

Horizontal

H Linearity*

V Linearity*

4 Corners

Curved Screen Correction

Vertical ARC

Vertical Balance*

Horizontal ARC

* Excluding PT-VZ470.

Images can be projected onto curved surfaces.

USB Display Function (PT-VZ585N/VW545N/VX615N Only)

Install Wireless Manager software on your PC, connect computer and projector with a USB cable*10, and Wireless Manager will automatically start up and output media (including audio) to the projector.
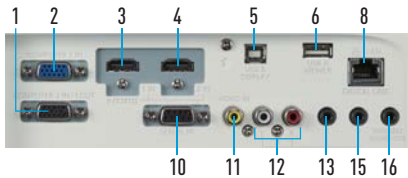
Additional Features

- DC OUT Terminal (PT-VZ580/VW540/VX610 Only)
- Direct Power Off
- Built-in 10 W Speaker
- ECO Management Function
- Whiteboard and Blackboard Mode

- Emulation Mode
- Crestron Connected™, AMX DD, and PJLink™ Compatible

- Easy Monitoring and Control Over LAN
- Auto Input Signal Search
- Early Warning Software Compatible (Option)
- Startup Logo Function
- Presentation Support Function

- Audio Standby Mode
- Digital Zoom Function
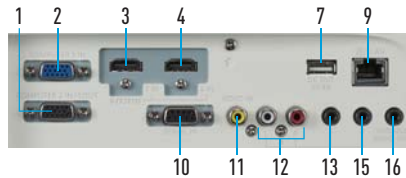- Anti-theft Features
- Closed Captioning (NTSC)

Terminals

PT-VZ585N/VW545N/VX615N
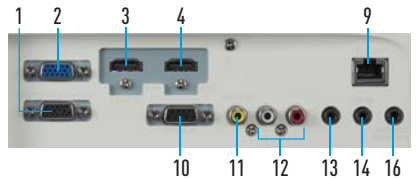

PT-VZ580/VW540/VX610

PT-VZ470

1. COMPUTER 2 IN / 1 OUT terminal
2. COMPUTER 1 IN terminal
3. HDMI 1 IN terminal
4. HDMI 2 IN terminal

5. USB B (DISPLAY) terminal (VZ585N/VW545N/VX615N only)
6. USB A (Viewer) terminal (VZ585N/VW545N/VX615N only)
7. DC OUT (5V 2A) terminal (VZ580/VW540/VX610 only)
8. DIGITAL LINK/LAN terminal (VZ585N/VW545N/VX615N only)

9. LAN terminal (VZ580/VW540/VX610/VZ470 only)
10. SERIAL IN terminal
11. VIDEO IN terminal
12. AUDIO IN 3 terminal

13. AUDIO IN 1 terminal
14. AUDIO IN 2 (MIC IN) terminal (PT-VZ470 only)
15. AUDIO IN 2 terminal (PT-VZ585N/VW545N/VX615N/VZ580/VW540/VX610 only)
16. VARIABLE AUDIO OUT terminal

Projection distance (Unit: meters [feet])

PT-VZ585N / VZ580 / VZ470
(16:10 aspect ratio; throw ratio 1.09–1.77:1, UD ratio 17:1)

Projection image size Diagonal (inch)	Projection distance (L) min. (wide)		max. (tele)		Height from the edge of screen to center of lens (H)	
30˝	0.68	[2.24]	1.12	[3.66]	0.02 – 0.20	[0.07 – 0.66]
40˝	0.93	[3.04]	1.51	[4.95]	0.03 – 0.27	[0.10 – 0.89]
50˝	1.16	[3.81]	1.89	[6.19]	0.04 – 0.34	[0.12 – 1.10]
60˝	1.39	[4.58]	2.26	[7.43]	0.04 – 0.40	[0.15 – 1.32]
70˝	1.64	[5.38]	2.66	[8.72]	0.05 – 0.47	[0.17 – 1.55]
80˝	1.87	[6.14]	3.03	[9.95]	0.06 – 0.54	[0.20 – 1.76]
90˝	2.12	[6.94]	3.43	[11.24]	0.07 – 0.61	[0.22 – 1.99]
100˝	2.35	[7.71]	3.80	[12.48]	0.07 – 0.67	[0.25 – 2.21]
120˝	2.83	[9.28]	4.57	[15.01]	0.09 – 0.81	[0.29 – 2.65]
150˝	3.54	[11.62]	5.72	[18.77]	0.11 – 1.01	[0.37 – 3.31]
200˝	4.73	[15.52]	7.64	[25.07]	0.15 – 1.35	[0.49 – 4.42]
250˝	5.92	[19.43]	9.56	[31.36]	0.19 – 1.68	[0.61 – 5.52]
300˝	7.11	[23.33]	11.48	[37.65]	0.22 – 2.02	[0.74 – 6.63]

PT-VW545N / VW540
(16:10 aspect ratio; throw ratio 1.08–1.76:1, UD ratio 17:1)

Projection image size Diagonal (inch)	Projection distance (L) min. (wide)		max. (tele)		Height from the edge of screen to center of lens (H)	
30˝	0.68	[2.22]	1.12	[3.66]	0.02 – 0.20	[0.07 – 0.66]
40˝	0.92	[3.01]	1.51	[4.94]	0.03 – 0.27	[0.10 – 0.89]
50˝	1.15	[3.77]	1.88	[6.18]	0.04 – 0.34	[0.12 – 1.10]
60˝	1.38	[4.53]	2.26	[7.41]	0.04 – 0.40	[0.15 – 1.32]
70˝	1.62	[5.33]	2.65	[8.69]	0.05 – 0.47	[0.17 – 1.55]
80˝	1.86	[6.09]	3.03	[9.93]	0.06 – 0.54	[0.20 – 1.76]
90˝	2.10	[6.88]	3.42	[11.21]	0.07 – 0.61	[0.22 – 1.99]
100˝	2.33	[7.64]	3.79	[12.44]	0.07 – 0.67	[0.25 – 2.21]
120˝	2.80	[9.20]	4.56	[14.96]	0.09 – 0.81	[0.29 – 2.65]
150˝	3.51	[11.51]	5.70	[18.71]	0.11 – 1.01	[0.37 – 3.31]
200˝	4.69	[15.38]	7.61	[24.98]	0.15 – 1.35	[0.49 – 4.42]
250˝	5.87	[19.25]	9.52	[31.25]	0.19 – 1.68	[0.61 – 5.52]
300˝	7.05	[23.12]	11.43	[37.51]	0.22 – 2.02	[0.74 – 6.63]

PT-VX615N / VX610
(4:3 aspect ratio; throw ratio 1.17–1.90:1, UD ratio 9:1)

Projection image size Diagonal (inch)	Projection distance (L) min. (wide)		max. (tele)		Height from the edge of screen to center of lens (H)	
30˝	0.69	[2.26]	1.14	[3.73]	0.05 – 0.23	[0.15 – 0.75]
40˝	0.94	[3.07]	1.54	[5.04]	0.06 – 0.31	[0.20 – 1.00]
50˝	1.17	[3.85]	1.92	[6.30]	0.08 – 0.38	[0.25 – 1.25]
60˝	1.41	[4.62]	2.30	[7.55]	0.09 – 0.46	[0.30 – 1.50]
70˝	1.65	[5.43]	2.70	[8.86]	0.11 – 0.53	[0.35 – 1.75]
80˝	1.89	[6.20]	3.08	[10.12]	0.12 – 0.61	[0.40 – 2.00]
90˝	2.14	[7.01]	3.48	[11.42]	0.14 – 0.69	[0.45 – 2.25]
100˝	2.37	[7.79]	3.87	[12.68]	0.15 – 0.76	[0.50 – 2.50]
120˝	2.86	[9.37]	4.65	[15.24]	0.18 – 0.92	[0.60 – 3.00]
150˝	3.58	[11.73]	5.81	[19.07]	0.23 – 1.14	[0.75 – 3.75]
200˝	4.78	[15.67]	7.76	[25.45]	0.30 – 1.52	[1.00 – 5.00]
250˝	5.98	[19.61]	9.70	[31.84]	0.38 – 1.91	[1.25 – 6.25]
300˝	7.18	[23.56]	11.65	[38.22]	0.46 – 2.29	[1.50 – 7.50]

Optional accessories

ET-PKL100H
Ceiling Mount Bracket for High Ceilings

ET-PKL100S
Ceiling Mount Bracket for Low Ceilings

ET-LAV400
Replacement Lamp Unit

ET-UW100*8
Easy Wireless Stick

ET-PKV400B
Projector Mount Bracket

ET-RFV410
Replacement Filter Unit (For PT-VZ585N/VZ580/ VW545N/VW540/VX615N/ VX610)

ET-RFV400
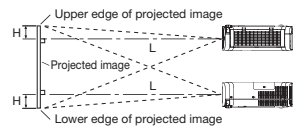Replacement Filter Unit (For PT-VZ470)

ET-SWA100 Series
Early Warning Software

ET-YFB200G
DIGITAL LINK Switcher

ET-YFB100G
Digital Interface Box
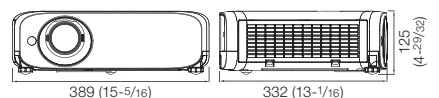

Upper edge of projected image

Projected image

Lower edge of projected image

- The value for L (distance to screen) varies slightly depending on the zoom lens characteristics.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.

Dimensions
Unit: mm [inches]

389 (15-5/16)

332 (13-1/16)

125 (4-29/32)

*10 One-time USB driver installation is required upon initial USB cable connection. Supports Windows® PC only. Function is not available on Windows® 10.

Specifications

Model	PT-VZ585N	PT-VZ580	PT-VZ470*1	PT-VW545N	PT-VW540	PT-VX615N	PT-VX610
Power supply	AC 120 V, 50/60 Hz (North America), AC 110 V, 60 Hz (Taiwan), AC 100–240 V, 50/60 Hz (other countries)						
Power consumption	400 W [North America], 410 W [other countries]		372 W [North America], 378 W [other countries]	385 W [North America], 400 W [other countries]			
Standby power consumption — Standby Mode (Eco)*2	0.3 W [North America, Taiwan], 0.5 W [other countries]		0.2 W [North America], 0.4 W [other countries]	0.3 W [North America, Taiwan], 0.5 W [other countries]			
Standby power consumption — Standby Mode (Normal)	14 W	8 W	8 W	14 W	8 W	14 W	8 W
LCD panel — Panel size	0.64 inches (1.63 cm) [16:10 aspect ratio]					0.63 inches (1.60 cm) [4:3 aspect ratio]	
LCD panel — Display method	Transparent LCD panel (×3, R/G/B)						
LCD panel — Pixels	2,304,000 (1920 × 1200) × 3, total of 6,912,000 pixels			1,024,000 (1280 × 800) × 3, total of 3,072,000 pixels		786,432 (1024 × 768) × 3, total of 2,359,296 pixels	
Lens	1.6x manual zoom (throw ratio: 1.09–1.77:1), manual focus F 1.60–2.12, f 15.30–24.64 mm			1.6x manual zoom (throw ratio: 1.08–1.76:1), manual focus F 1.60–1.90, f 15.31–24.64 mm		1.6x manual zoom (throw ratio: 1.17–1.90:1), manual focus F 1.60–1.90, f 15.31–24.64 mm	
Lamp	280 W UHM lamp × 1		270 W UHM lamp × 1	280 W UHM lamp × 1			
Screen size (diagonal)	30–300 inches						
Brightness*3	5,000 lm [input signal: PC, lamp power: Normal, picture mode: Dynamic, Daylight View: OFF, Auto Power Save: OFF]		4,400 lm [input signal: PC, lamp power: Normal, picture mode: Dynamic, Daylight View: OFF, Auto Power Save: OFF]	5,500 lm [input signal: PC, lamp power: Normal, picture mode: Dynamic, Daylight View: OFF, Auto Power Save: OFF]			
Center-to-corner uniformity*3	85 %						
Contrast*3	16,000:1 [all white/all black] [input signal: PC, lamp power: Normal, picture mode: Dynamic, Iris: On, Daylight View: OFF, Auto Power Save: OFF]		10,000:1 [full on/off] [input signal: PC, lamp power: Normal, picture mode: Dynamic, Iris: On, Daylight View: OFF, Auto Power Save: OFF]	16,000:1 [all white/all black] [input signal: PC, lamp power: Normal, picture mode: Dynamic, Iris: On, Daylight View: OFF, Auto Power Save: OFF]			
Resolution	1920 × 1200 pixels			1280 × 800 pixels (Input signals that exceed this resolution will be converted to 1280 × 800 pixels.)		1024 × 768 pixels (Input signals that exceed this resolution will be converted to 1024 × 768 pixels.)	
Scanning frequency — HDMI	480/60i*4, 576/50i*4, 480/60p, 576/50p, 720/60p, 720/50p, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p, 1080/60i, 1080/50i, Displayable resolution: 640 x 400 to 1920 x 1200 (non-interlace), Dot clock frequency: 25 MHz to 162 MHz						
Scanning frequency — RGB (analog)	Displayable resolution: 640 x 400 to 1920 x 1200 (non-interlace), f_H: 15 kHz–91 kHz, f_V: 24 Hz–100 Hz, dot clock: 162 MHz or lower						
Scanning frequency — YPBPR (YCBCR)	f_H: 15.73 kHz, f_V: 59.94 Hz [480/60i], f_H: 15.63 kHz, f_V: 50 Hz [576/50i], f_H: 31.47 kHz, f_V: 59.94 Hz [480/60p], f_H: 31.25 kHz, f_V: 50 Hz [576/50p], f_H: 45.00 kHz, f_V: 60 Hz [720/60p], f_H: 37.50 kHz, f_V: 50 Hz [720/50p], f_H: 27.00 kHz, f_V: 24 Hz [1080/24p], f_H: 27.00 kHz, f_V: 48 Hz [1080/24sF], f_H: 28.13 kHz, f_V: 25 Hz [1080/25p], f_H: 33.75 kHz, f_V: 30 Hz [1080/30p], f_H: 67.50 kHz, f_V: 60 Hz [1080/60p], f_H: 56.25 kHz, f_V: 50 Hz [1080/50p], f_H: 33.75 kHz, f_V: 60 Hz [1080/60i], f_H: 28.13 kHz, f_V: 50 Hz [1080/50i]*, HD/SYNC and VD terminals do not support 3 value SYNC.						
Scanning frequency — Video	f_H: 15.73 kHz/15.63 kHz, f_V: 59.94 Hz/50 Hz [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM]						
Optical axis shift	Vertical 0 to +44 % from center of screen (manual), U/D ratio on top end: 17:1					Vertical 0 to +40 % from center of screen (manual), U/D ratio on top end: 9:1	
Keystone correction range	Vertical: maximum ±25 ° (auto/manual, input: WUXGA), Horizontal: maximum ±30 ° (manual, input: WUXGA)			Vertical: maximum ±35 ° (auto/manual, input: WXGA), Horizontal: maximum ±35 ° (manual, input: WXGA), Up to a total of ±55 ° during simultaneous horizontal and vertical correction.		Vertical: maximum ±35 ° (auto/manual, input: XGA), Horizontal: maximum ±35 ° (manual, input: XGA), Up to a total of ±55 ° during simultaneous horizontal and vertical correction.	
Installation	Front ceiling/Front desk/Rear ceiling/Rear desk						
Terminals — HDMI IN	HDMI 19-pin × 2 (Deep Color, compatible with HDCP), audio signal: Linear PCM [sampling frequency: 48 kHz/44.1 kHz/32 kHz]						
Terminals — COMPUTER IN 1	D-sub 15-pin (female) x 1 [RGB/Y • PB (CB) • PR (CR)]						
Terminals — COMPUTER IN 2/MONITOR OUT	D-sub 15-pin (female) x 1 [RGB/Y • PB (CB) • PR (CR) (input/output switching)]						
Terminals — VIDEO IN	Pin jack x 1						
Terminals — AUDIO IN 1	M3 stereo mini jack x 1						
Terminals — AUDIO IN 2	M3 stereo mini jack x 1		M3 stereo mini jack x 1, compatible with MIC input	M3 stereo mini jack x 1			
Terminals — AUDIO IN 3	Pin jack (L/R) x 1						
Terminals — AUDIO OUT	M3 stereo mini jack x 1 (monitor out: variable)						
Terminals — SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)						
Terminals — USB A	Type A Memory Viewer/Pairing function x 1	Type A for DC output x 1 [for power supply, DC 5 V, max. 2 A]*5	—	Type A Memory Viewer/Pairing function x 1	Type A for DC output x 1 [for power supply, DC 5 V, max. 2 A]*5	Type A Memory Viewer/Pairing function x 1	Type A for DC output x 1 [for power supply, DC 5 V, max. 2 A]*5
Terminals — USB B	Type B for USB Display x 1	—	—	Type B for USB Display x 1	—	Type B for USB Display x 1	—
Terminals — LAN/DIGITAL LINK	RJ-45 × 1 for network connection, DIGITAL LINK, 100Base-TX, compatible with PJLink™, HDCP compatible, Deep Color compatible	—	—	RJ-45 × 1 for network connection, DIGITAL LINK, 100Base-TX, compatible with PJLink™, HDCP compatible, Deep Color compatible	—	RJ-45 × 1 for network connection, DIGITAL LINK, 100Base-TX, compatible with PJLink™, HDCP compatible, Deep Color compatible	—
Terminals — LAN	—	RJ-45 × 1 for network connection, 10Base-T/100Base-TX, compatible with PJLink™	—	—	RJ-45 × 1 for network connection, 10Base-T/100Base-TX, compatible with PJLink™	—	RJ-45 × 1 for network connection, 10Base-T/100Base-TX, compatible with PJLink™
Built-in speaker	4.0 cm (1 1/16") round shape × 1, output power: 10 W (monaural)						
Operating noise*3	37 dB (lamp power: Normal), 35 dB (lamp power: ECO1), 29 dB (lamp power: ECO2)		37 dB (lamp power: Normal), 29 dB (lamp power: ECO)	37 dB (lamp power: Normal), 35 dB (lamp power: ECO1), 29 dB (lamp power: ECO2)			
Cabinet materials	Molded plastic						
Dimensions (W × H × D)	389 × 125*7 × 332 mm (15-5/16" × 4-29/32"*7 × 13-1/16")						
Weight*6	Approximately 4.9 kg (10.8 lbs)	Approximately 4.8 kg (10.6 lbs)		Approximately 4.9 kg (10.8 lbs)	Approximately 4.8 kg (10.6 lbs)	Approximately 4.9 kg (10.8 lbs)	Approximately 4.8 kg (10.6 lbs)
Operating environment	Operating temperature: 0–40 °C (32–104 °F)*8 (altitude: less than 1,200 m [3,937 ft]), 0–30 °C (32–86 °F) (altitude: 1,200–2,700 m [3,937 ft–8,858 ft]), Operating humidity: 20–80 % (no condensation)						
Supplied accessories	Wireless remote control unit × 1, Power cord with power cord holder x 1 (x 2 for UK and Asia), Software CD-ROM × 1 (Operating instructions, Multi Monitoring and Control Software, Logo Transfer Software, Wireless Manager ME software [PT-VZ585N/VW545N/VX615N only]), Batteries (AAA type × 2), RGB cable x 1, Lens cap x 1						

*1 PT-VZ470 is not available in Taiwan. *2 When the Standby Mode is set to ECO, network functions such as Power On via LAN will not operate. Also, only certain commands can be received for external control using the serial terminal. *3 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *4 Pixel-repetition signal (dot clock frequency: 27.0 MHz) only. *5 No output when projector is on standby. *6 Average value. May differ depending on the actual unit. *7 With legs at shortest position. *8 When operating temperature is between 35 °C (95 °F) and 40 °C (104 °F) , lamp power automatically switches to ECO in order to protect the projector.

Built-in wireless LAN (PT-VZ585N/VW545N/VX615N)	Standard: 2.4 GHz: IEEE802.11b/g/n, 5.0 GHz: IEEE802.11a/n 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-TTLS [MD5/MS-CHAPv2], 128-bit/64-bit), Miracast

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All information included here is valid as of June 2017.

PT-VZ580series_G1 Printed in Japan.