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Panasonic PT-TW381R Series LCD Projectors User Manual

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Contents

Main Features

1. **Beautiful Pictures, No Shadows**

   Packing high-contrast brilliance into a compact body, the PT-TW381R Series serves interactive*1 images and can produce an 80-inch picture from throw-distances of 80 cm*2 or less with no shadows on screen..

2. **Low-Maintenance Reliability and Low TCO**

Central to high reliability and low running cost is a new low-degradation lamp engineered for 20,000 hours*3 of operation. Air filter lasts up to 10,000 hours*4, setting you up for dependable set-and-forget projection.

3. **Wide Connectivity with Optional Wireless Projection**

   Play and switch HD content*5 from your teams' laptops via dual HDMI® and D-sub inputs*6, or use the USB terminal to mirror your device screen via optional wireless module*7. USB DC can power a streaming device*8 for media casting without cable clutter.

 Requires optional ET-WML100/AJ-WM50 series wireless modules. ET-WML100 Series and AJ-WM50 Series devices are both compatible with all projectors in this series, and either can be used to enable the wireless network function.

 PT-TW381R only

	PT-TW381R PT-TW380	PT-TX440	PT-TX350
Light Output	3,300 lm	3,800 lm	3,200 lm
Resolution	WXGA	XGA	

Pitch Big Pictures from Close Up
Give your staff a communication edge with 3,800 lm*1 brightness and 20,000:1 contrast in small meeting spaces or classrooms. Graphics, text, and video are rendered with vibrant definition even under lights. The projectors support throw-distances of 80 cm*2 or less for an 80-inch image, placing the lens in front of the presenter to prevent their shadow falling across the screen.

Long-life Lamp and Filter Reduce TCO
A new 20,000-hour*3 lamp reduces your maintenance overheads compared to conventional lamp projectors thanks to low-degradation materials and improved cooling, while filter replacement is pushed back to 10,000 hours*4. Early Warning*5 functions virtually
eliminate unscheduled downtime, reinforcing reliability in permanent installations.

Extensively Connected with HDMI® and PC Inputs
The PT-TW381R Series can connect up to four source devices at a time via two HDMI and two D-sub inputs*6, so multiple presenters don't have to share a cable. Turn your space into a collaborative environment with optional USB wireless modules*7 for mobile and PC mirroring, or power a streaming device*8 with USB DC outlet for media casting without cable clutter.

Write and Draw on Projected Images (PT-TW381R Only)
Communicate more effectively by marking images using the supplied Interactive Light Pen. Great for lectures or business meetings, the faster frame-rate enabled by LightPen3 Software*9 improves writing smoothness for up to two presenters at once. You can save modified images to PC for later distribution.

Other Features

1. Daylight View Lite optimizes images to suit ambient lighting
2. Built-in 10 W mono speaker, mic input, and variable audio output Easy on-ceiling lamp and filter access via side- and top-panel doors
3. Multi Monitoring & Control Software with Early Warning*5 functions manages up to 2,048 projectors via PC
4. Supports control solutions including PJ Link™ via LAN and RS-232C
5. Custom start-up logo and security bar theft-deterrence

Model		PT-TW381R	PT-TW380	PT-TX440	PT-TX350
Projector type		LCD projecto	16.0 mm (0.63 in) diagonal (4:3 aspect ratio)		
LCD pane	Panel size	15.0 mm (0.59 in) diagonal (16:10 aspect ratio)		16.0 mm (0.63 in) diagonal (4:3 aspect ratio)	
	Number of pixels	1,024,000 (1280 x 800 pixels) x 3		786,432 (1024 x 768 pixels) x 3	
Light source		230 W x 1 lamp			
Light output		3,300 lm		3,800 lm	3,200 lm
Lamp replacement cycle *2		Normal: 10,000 h/Eco: 20,000 h/Quiet: 10,000 h			
Filter replacement cycle		Normal: 5,000 h/Eco: 6,000 h/Quiet: 10,000 h			
Resolution		1280 x 800 pixels		1024 x 768 pixels	
Contrast ratio*1		20,000:1 (All white/all black, Iris: On, Image mode: Dynamic, Daylight View: Off, Lamp control: Normal)			

Screen size (diagonal)	1.27–2.54 m (50–100 in), 16:10 aspect ratio	1.27–2.54 m (50–100 in), 4:3 aspect ratio
Center-to-corner zone ratio*1	85 %	
Lens	Fixed zoom, manual focus lens, F = 1.8, f = 6.08 mm, throw ratio: 0.46:1 (Projection distance: 0.80 m [2.62 ft] for 80-inch image)	Fixed zoom, manual focus lens, F = 1.8, f = 6.08 mm, throw ratio: 0.46:1 (Projection distance: 0.75 m [2.46 ft] for 80-inch image)
Keystone correction range	Vertical: ±15 ° (Auto, Manual), Horizontal: ±15 ° (Manual)	
Installation	Ceiling/desk, front/rear	
Terminals	HDMI 1 IN/HDMI 2 IN	HDMI 19-pin x 2 (Compatible with HDCP 1.4, Deep Color), Audio signal: Linear PCM (Sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)
	COMPUTER 1 IN	D-sub HD 15-pin (female) x 1 [RGB/YPBPR/YC]
	COMPUTER 2 IN/1 OUT	D-sub HD 15-pin (female) x 1 [RGB/YPBPR] (Input/output switching)
	VIDEO IN	Pin jack x 1
	AUDIO IN 1	M3 (L,R) x 1
	AUDIO IN 2	Pin jack x 2 (L,R)
	AUDIO OUT	M3 (L,R) x 1 (Variable)
	LAN	RJ-45 x 1 for network connection, 10Base-T/100Base-TX, PJLink™ (Class 2) compatible
	SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compatible)
	USB	USB Type-A (for Memory Viewer/Wireless Module [ET-WML100/AJ-WM50 series*3]/Power supply [DC 5 V/2 A])

	Mini USB	x 1 (Mini-USB connector for interactive function)
Power supply	AC 100–240 V, 50/60 Hz	
Power consumption	300 W	
Built-in speaker	10 W monaural	
Operation noise *1	Normal: 38 dB, Eco: 35 dB, Quiet: 30 dB	
Dimensions (W x H x D)	335 x 134.1*4 x 329 mm (13 3/16″ x 5 9/32″*4 x 12 15/16″)	
Weight*5	Approx. 3.9 kg (8.6 lbs)	
Operating environment	Operating temperature*6 : Normal use: 5–40 °C (41–104 °F) at altitudes less than 1,400 m (4,593 ft); 5–35 °C (41–95 °F) at altitudes of 1,400–2,700 m (4,593–8,858 ft); Operating humidity: 20–80 % (No condensation	
Applicable software	Multi Monitoring & Control Software, Early Warning Software, Logo Transfer Software,Presenter Light Software (for Windows ®)*7 , Wireless Projector for iOS/Android™*8 , LightPen3 Software for Windows/Mac, Whiteboard Software (for Windows)	Multi Monitoring & Control Software, Early Warning Software, Logo Transfer Software, Presenter Light Software (for Windows)*7 , Wireless Projector for iOS/Android*8

1. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped.
2. Lamp replacement cycle stated is maximum value, at which time brightness will have decreased to 50 %. Usage environment affects lamp replacement cycle.
3. ET-WML100 Series and AJ-WM50 Series devices are both compatible with all projectors in this series, and either can be used to enable the wireless network function.
4. With legs at shortest position.
5. Average value. May differ depending on the actual unit.
6. When [LAMP POWER] is set to [NORMAL] and the projector is operated at an elevation of 1,400 m (4,593 ft) or less, if the ambient temperature exceeds 35 °C (95 °F), [LAMP POWER] will be switched to [ECO] automatically to protect the projector. When [LAMP POWER] is set to [NORMAL] and the projector is operated

at an elevation between 1,400 m (4,593 ft) and 2,700 m (8,858 ft), if the ambient temperature exceeds 30 °C (86 °F), [LAMP POWER] will be switched to [ECO] automatically to protect the projector.

7. When using Presenter Light Software, images are projected with 1280 x 800 dots or 1024 x 768 dots onto the screen. Also, your PC display resolution may be forcibly changed, and audio playback disrupted or become noisy, while images and sound are being transmitted.

8. When using the Wireless Projector app, display resolution differs depending on your iOS/Android ™ device and the display device. The maximum supported display resolution is WXGA (1280 x 800)

Optional Accessories

- **Ceiling Mount Bracket**

  ET-PKL100H* (for high ceiling) / ET-PKL100S* (for low ceiling)

  * ET-PKL100H/ET-PKL100S is used in combination with the ET-PKL430B (sold separately)

- **Projector Mount Bracket**

  ET-PKL430B

- **Replacement Filter Unit**

  ET-RFL300

  Note: Filter cover not included.

- **Replacement Lamp Unit**

  ET-LAL510

- **Interactive Light Pen**

  ET-PEN100

  Note: Exclusively for PT-TW381R. Same as supplied Interactive Light Pen.

- **Interactive Pointer**

  ET-PNT100

  Note: Exclusively for PT-TW381R.

- **Wireless Module**

  ET-WML100/AJ-WM50 series*

  * Product availability may vary by country or region. ET-WML100 Series and AJ-WM50 Series devices are both compatible with all projectors in this series, and either can be used to enable the wireless network function.

- **D-sub/S-VIDEO Conversion Cable**

  ET-ADSV

- **Early Warning Software**

  ET-SWA100 Series

  Note: Part number suffix may differ depending on the license type. Multi Monitoring & Control Software Ver. 2.0 or later is required.

  Please download from the following

  website: https://panasonic.net/cns/projector/download/application/

For more information about Panasonic projectors, please visit:
Projector Global Website – panasonic.net/cns/projector
Facebook – **www.facebook.com/panasonicprojectoranddisplay**
YouTube – **www.youtube.com/user/PanasonicProjector**

Documents / Resources

Panasonic PT-TW381R Series LCD Projectors [pdf] User Manual
PT-TW381R Series LCD Projectors, PT-TW381R, PT-TW381R, PT-TW380, PT-TX440, PT-TX350

References

- ^P **Projector | Panasonic Global**
- ^P **Download | Projector | Panasonic Global**
- ^P **Multi Monitoring and Control Software | Projector | Panasonic Global**
- ^P **Software/App | Projector | Panasonic Global**