Panasonic ideas for life

SPEC FILE

Product Number : PT-**VX400NT**

Product Name : LCD Projector

Specifications

Main unit

Power supply		100–240 V AC, 50/60 Hz
Power consumption		322 W (0.48 W when standby mode set to eco,*1 14.5 W when standby mode set to network.)
LCD panel	Panel size	16.0 mm (0.63 inches) diagonal (16:10 aspect ratio)
	Display method	Transparent LCD panel (× 3, R/G/B)
	Pixels	786,432 (1,024 × 768) × 3, total of 2,359,296 pixels
	Pixel configuration	Stripe
Lens		Manual zoom (1:1–1.6:1), manual focus F 1.65–2.33, f 15.47–24.53 mm
Throw ratio		1.2–1.9:1
Lamp		245 W UHM lamp
Screen size		0.76–7.62 m (30–300 inches) diagonally, 4:3 aspect ratio
Colors		Full color (16,777,216 colors)
Brightness*2		4,000 lumens
Center-to-corner uniformity*2		85%
Contrast*2		2,000:1 (full on/full off)
Resolution		1,024 × 768 pixels (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.)
Scanning frequency	HDMI	f_H: 25 kHz–80 kHz, f_V: 50 Hz–85 Hz, dot clock: 162 MHz or lower
	RGB	f_H: 15 kHz–100 kHz, f_V: 50 Hz–100 Hz, dot clock: 140 MHz or lower (Signals above 140 MHz are downsampled.)
	$Y P_B P_R$ ($Y C_B C_R$)	525i (480i): f_H 15.75 kHz; f_V 60 Hz, 625i (576i): f_H 15.63 kHz; f_V 50 Hz, 525p (480p): f_H 31.50 kHz; f_V 60 Hz, 625p (576p): f_H 31.25 kHz; f_V 50 Hz, 750 (720)/60p: f_H 45.00 kHz; f_V 60 Hz, 750 (720)/50p: f_H 37.50 kHz; f_V 50 Hz, 1125 (1080)/60i: f_H 33.75 kHz; f_V 60 Hz, 1125 (1080)/50i: f_H 28.13 kHz; f_V 50 Hz
	Video/S-Video	f_H: 15.75 kHz, f_V: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60] f_H: 15.63 kHz, f_V: 50 Hz [PAL/PAL-N/SECAM]
Optical axis shift		9:1 (fixed)
Keystone correction range		Horizontal: ±40°, vertical: ±30° (when an XGA signal is input) (horizontal ±30° and vertical ±20° in Auto Keystone Correction mode*3)
Installation		Ceiling/desk, front/rear (menu selection)
Built-in speaker	Size	3.7 cm (1-15/32 inches) (round) × 1
	Output power	10 W (monaural)
Terminals	HDMI IN	HDMI 19-pin × 1, HDCP compatible 480p (525p), 576p (625p), 720 (750)/60p, 720 (750)/50p, 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/60p, 1080 (1125)/50p VGA (640 × 480)–WUXGA*4 (1,920 × 1,200), dot clock: 25.2 MHz–146.25 MHz; Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)
	COMPUTER (RGB) 1 IN R, G, B	D-sub HD 15-pin (female) × 1 G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL (positive/negative) **NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals.**
	Y, P_B (C_B), P_R (C_R)	Y: 1.0 Vp-p (including sync signal); P_B (C_B), P_R (C_R): 0.7 Vp-p, 75 ohms
	COMPUTER (RGB) 2 IN / 1 OUT R, G, B	D-sub HD 15-pin (female) × 1 (input/output selectable using on-screen menu) G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL (positive/negative) **NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals.**

	VIDEO IN	RCA pin × 1, 1.0 Vp-p, 75 ohms
	S-VIDEO IN	Mini DIN 4-pin × 1, Y: 1.0 Vp-p; C: 0.286 Vp-p, 75 ohms
	COMPUTER AUDIO IN 1	M3 (L, R) × 1, 0.5 Vrms
	COMPUTER AUDIO IN 2 / MIC IN	M3 (L, R) × 1, 0.5 Vrms
	VIDEO/S-VIDEO AUDIO IN	RCA × 2 (L/R × 1), 0.5 Vrms
	AUDIO OUT	M3 (L, R) × 1 (monitor out: 0–2.0 Vrms, variable)
	SERIAL IN	D-sub 9-pin (male) × 1, for external control (RS-232C compliant)
	LAN	RJ-45 × 1, for network connection, 100Base-TX/10Base-T, compliant with PJLink™
	USB	USB A (type A) connector × 1, for USB memory viewer USB B (type B) connector × 1, for USB display and wireless mouse
Power cord length		2.0 m (6 ft 7 in)
Cabinet materials		Molded plastic (PC + ABS)
Dimensions (W × H × D)		350 mm × 97 mm*5 × 277 mm*6 (13-25/32 × 3-13/16*5 × 10-29/32*6 inches)
Weight		Approximately 3.6 kg (7.9 lbs)
Operation noise		35 dB (lamp mode: normal), 29 dB (lamp mode: eco 1/eco 2)
Operating temperature		5°–35°C (41°–95°F)
Operating humidity		20%–80% (no condensation)

Remote control unit

Power supply		3 V DC (R03/AAA type battery × 2)
Operation range*7		Approximately 7 m (23 ft) when operated from directly in front of the signal receptor
Dimensions (W × H × D)		48 × 145 × 27 mm (1-7/8″ × 5-23/32″ × 1-3/32″)
Weight		Approx. 102 g (3.6 oz) (including batteries)

Wireless LAN

Standard		IEEE 802.11b/g/n
Modulation	IEEE 802.11b	Direct sequence spread spectrum (DS-SS) system
	IEEE 802.11g/n	Orthogonal frequency division multiplex (OFDM) system
Transmission system	IEEE 802.11b	CCK (11/5.5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)
	IEEE 802.11g/n	64-QAM (54/48 Mbps), 16-QAM (36/24 Mbps), QPSK (18/12 Mbps), BPSK (9/6 Mbps)
Transmission speed*8	IEEE 802.11b	Up to 11 Mbps
	IEEE 802.11g	Up to 54 Mbps
	IEEE 802.11n	Up to 150 Mbps
Operating range*7		Approx. 30 m (98´5″)
Frequency range		2,412–2,472 MHz
Channels		1–13 ch
Security	Infrastructure mode	WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES), WEP (128 bit/64 bit), WPA-EAP/WPA2-EAP (PEAP [MS-CHAPv2/GTC], EAP-FAST [MS-CHAPv2/GTC], EAP-TTLS [MD5/MS-CHAPv2]
	ad-hoc mode*9	WEP (128 bit/64 bit)

Wireless Manager ME 5.5 system requirements To use network functions, a PC is required that meets the conditions given below.

OS	Microsoft® Windows® XP: Professional 32-bit, Home Edition 32-bit, Tablet PC Edition 2005 32-bit Windows Vista®: Ultimate 32-bit/64-bit, Business 32-bit/64-bit, Home Premium 32-bit/64-bit, Home Basic 32-bit/64-bit Windows® 7: Ultimate 32-bit/64-bit, Professional 32-bit/64-bit, Home Premium 32-bit/64-bit Apple Mac OS X*10: v10.4, v10.5, v10.6, v10.7
Web browser	Windows®: Internet Explorer 6.0/7.0/8.0/9.0 Mac OS: Safari 2.0/3.0/4.0/5.0
CPU	Windows®: 1 GHz or higher Intel® Pentium® III or higher, or other compatible processor Mac OS X: 1 GHz or higher PowerPC G4, or 1.8 GHz or higher Intel® Core™ processor
Memory	256 MB or more (512 MB or higher is recommended for Mac OS X)
Free hard disk space	60 MB or more
CD-ROM drive	CD-ROM drive or DVD drive (required for installation)
Wireless LAN	IEEE 802.11b/g/n compatible (built-in wireless LAN system or external IEEE 802.11b/g/n LAN card must be installed and running normally.) **NOTE: Wireless connection may not be possible with some IEEE 802.11b/g/n wireless LAN systems. Macintosh computers must have a built-in wireless LAN adapter. For IEEE 802.11n connection, use a wireless LAN adapter, projector and access point that are IEEE 802.11n compatible, and connect with Infrastructure mode.**
Wired LAN connector	RJ-45

Supplied accessories

Power cord with security lock (× 1) (× 2 for PT-VW330EA)
Wireless remote control unit (× 1)
Batteries for remote control (R03/AAA type × 2)
Carrying bag (× 1)
VGA cable (× 1)
Filter cover (× 1)
Software CD-ROM (Logo Transfer Software, Multi Projector Monitoring and Control Software, Wireless Manager ME 5.5) (× 1)

Optional accessories

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

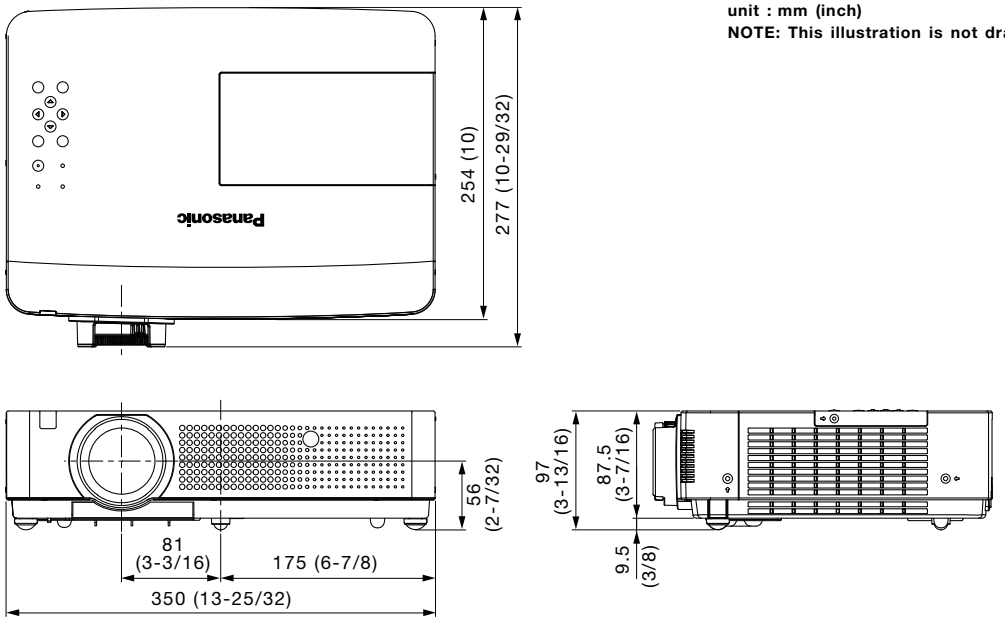
Weights and dimensions shown are approximate. Specifications subject to change without notice.

***1 When the standby mode is set to eco, network functions such as power on over the LAN network will not operate. Also, only certain commands can be received for external control using the serial terminal.**
***2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.**
***3 Auto Keystone Correction is effective when the projection size is from 30 inches to 100 inches diagonally.**
***4 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).**
***5 With legs at shortest position.**
***6 Protruding parts not included.**
***7 Operation range differs depending on environments.**
***8 This is a theoretical speed. The actual transfer speed varies depending on the usage environment and connected devices.**
***9 Not supported by IEEE 802.11n.**
***10 The operation system must be pre-installed at the factory or clean installed.**

LCD Projector

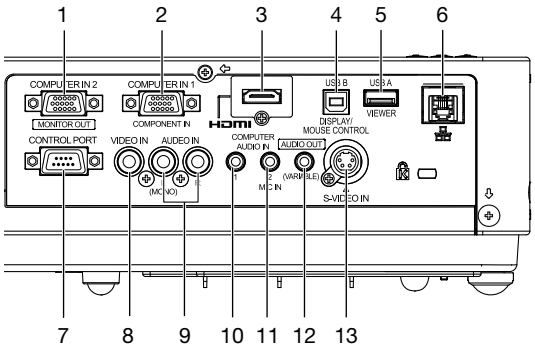
PT-**VX400NT**

Dimensions



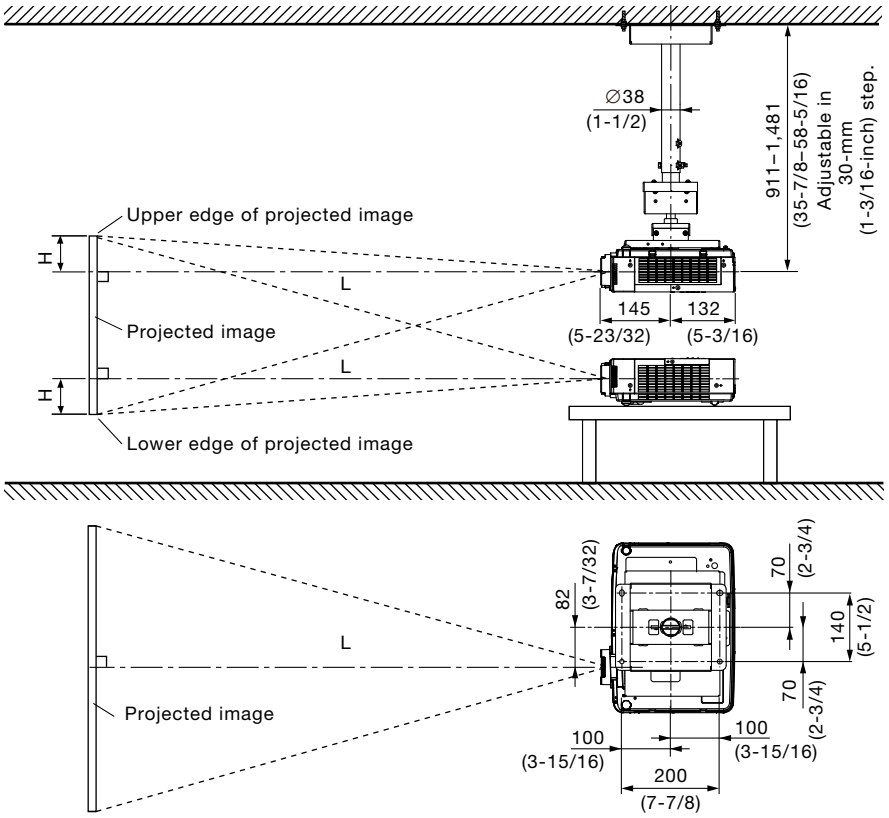
unit : mm (inch)
NOTE: This illustration is not drawn to scale.

Terminals



1 Computer 2 input / computer 1 output
2 Computer 1 input
3 HDMI input
4 USB B connector
5 USB A connector
6 LAN connector
7 Serial input
8 Video input
9 Audio input for video/S-Video
10 Audio input for computer 1
11 Audio input for computer 2 / mic input
12 Audio output
13 S-Video input

Standard setting-up position



NOTE:

Illustrations show the projector installed using optional ceiling mount bracket ET-PKV100H and bracket assembly ET-PKV100B.

This illustration is not drawn to scale.

unit : mm (inch)

Caution:

- All construction work should be done by a qualified technician.
- When mounting to the ceiling, use the special mounting bracket. To prevent the projector from swaying or dropping, attach the wire that is included with the projector between the mounting bracket and the ceiling.

Projection distance for 4:3 aspect ratio screen

unit: meters (feet)

Projection size [diagonal]	Projection distance [L] Min [wide]	Max [telephoto]	Height from the edge of screen to center of lens [H]
0.76 m / 30″	0.7 (2.3)	1.1 (3.6)	0.05 (0.16)
1.02 m / 40″	0.9 (3.0)	1.5 (4.9)	0.06 (0.20)
1.27 m / 50″	1.2 (3.9)	1.9 (6.2)	0.08 (0.26)
1.52 m / 60″	1.4 (4.6)	2.3 (7.5)	0.09 (0.30)
1.78 m / 70″	1.7 (5.6)	2.7 (8.9)	0.11 (0.36)
2.03 m / 80″	1.9 (6.2)	3.1 (10.2)	0.12 (0.39)
2.29 m / 90″	2.2 (7.2)	3.5 (11.5)	0.14 (0.46)
2.54 m / 100″	2.4 (7.9)	3.9 (12.8)	0.15 (0.49)
3.05 m / 120″	2.9 (9.5)	4.7 (15.4)	0.18 (0.59)
3.81 m / 150″	3.6 (11.8)	5.8 (19.0)	0.23 (0.75)
5.08 m / 200″	4.8 (15.7)	7.8 (25.6)	0.31 (1.02)
6.35 m / 250″	6.0 (19.7)	8.0* (26.2)*	0.38 (1.25)
7.62 m / 300″	7.2 (23.6)	8.0* (26.2)*	0.46 (1.51)

*** Lens performance cannot be guaranteed for projection sizes larger than 8.0 m (26.2 ft).**

NOTE:

- **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.**

Calculation of the projection distance

For a screen size different from the above, use the equation below to calculate the projection distance.

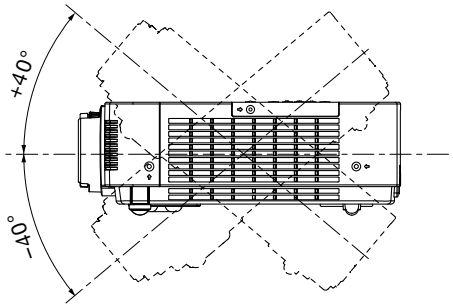
Aspect ratio 4:3
minimum L (m) = (diagonal screen size in inches) × 0.0242 – 0.0334
maximum L (m) = (diagonal screen size in inches) × 0.0391 – 0.0326

NOTE:
Distances calculated with the above equations will include a slight error.

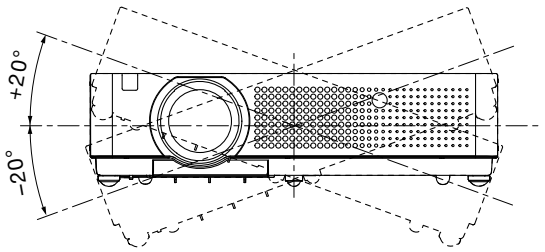
Installable angle

Install the projector at an angle within the range shown below.

• Vertical direction
The projector may be installed at a vertical angle of 40°.



• Horizontal direction
The projector may be installed at a horizontal angle of 20°.



List of compatible signals

The signals that can be input to this projector are shown in the table below. Horizontal scanning frequencies of 25 kHz to 80 kHz (15 kHz to 100 kHz for RGB signals), vertical scanning frequencies of 50 Hz to 120 Hz (50 Hz to 100 Hz for RGB signals), and a dot clock of 162 MHz maximum (140 MHz maximum for RGB signals) can be input.

NOTE: The native resolution of this projector is 1,024 × 768 pixels. If the display resolution of the input signal is different from the native resolution, image compression or expansion will be used to convert the input signal to a level within the native resolution.

Display mode	Display resolution (dots)[1]	Scanning frequency H (kHz)	Scanning frequency V (kHz)	Dot clock frequency (MHz)	Format
NTSC/NTSC4.43/PAL-M/PAL60	720 × 480i	15.7	59.9	–	VIDEO/S-VIDEO
PAL/PAL-N/SECAM	720 × 576i	15.6	50.0	–	
525i (480i)	640 × 480i	15.7	59.9	12.3	YP_BP_R/RGB
625i (576i)	768 × 576i	15.6	50.0	14.8	
525p (480p)	640 × 480	31.5	59.9	25.2	
625p (576p)	768 × 575	31.3	50.0	29.5	
720p	1280 × 720	45.0	60.0	74.3	
		37.5	50.0	74.3	
1035i	1920 × 1035i	33.8	60.0	74.3	HDMI/YP_BP_R/RGB
1080i	1920 × 1080i	33.8	60.0	74.3	
		28.1	50.0	74.3	
VGA	640 × 400	31.5	70.1	25.2	RGB
	640 × 480	31.5	59.9	25.2	HDMI/RGB
		37.5	75.0	31.5	RGB
		37.9	72.8	31.5	
		37.9	74.4	31.5	
		43.3	85.0	36.0	
	720 × 400	31.5	70.1	28.3	
MAC LC13	640 × 480	35.0	66.6	31.3	
MAC13		35.0	66.7	30.2	
SVGA	800 × 600	32.7	51.1	32.7	
		34.5	55.4	36.4	
		35.2	56.3	36.0	
		37.9	60.3	40.0	
		37.9	61.0	40.0	
		38.0	60.5	40.1	
		38.6	60.3	38.6	
		46.9	75.0	49.5	
		48.1	72.2	50.0	
		53.7	85.1	56.3	
MAC16	832 × 624	49.7	74.6	57.3	
XGA	1024 × 768	44.0	54.6	59.1	
		46.9	58.2	63.0	
		47.0	58.3	61.7	
		48.4	60.0	65.0	HDMI/RGB
		48.5	60.0	65.2	RGB
		58.0	72.0	74.7	
		60.0	75.0	78.8	HDMI/RGB
		60.3	74.9	79.3	
		61.0	75.7	81.0	RGB
		62.0	77.1	84.3	
		63.5	79.4	83.4	
		56.5	70.1	75.0	HDMI/RGB
		68.7	85.0	94.5	
	1024 × 768i	36.0	87.2	47.3	RGB
		35.5	87.0	44.9	
MAC19	1024 × 768	60.2	75.1	80.0	

***1 The "i" appearing after the resolution indicates an interlaced signal.**

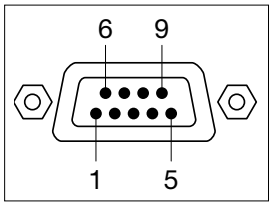
Display mode	Display resolution (dots)[1]	Scanning frequency H (kHz)	Scanning frequency V (kHz)	Dot clock frequency (MHz)	Format
WXGA	1280 × 768	47.8	59.9	79.5	HDMI/RGB
		60.3	74.9	102.3	
		68.6	84.8	117.5	
	1280 × 800	41.2	50.0	68.6	
		49.6	60.1	79.4	
		49.7	59.8	83.5	
		56.0	70.0	95.0	RGB
		57.6	72.0	97.8	
		58.2	70.0	98.9	
		60.0	72.0	102.8	
		62.8	74.9	106.5	
		63.9	60.0	108.0	HDMI/RGB
		71.5	84.8	122.5	RGB
	1360 × 768	47.7	60.0	86.7	
		56.2	72.0	86.7	
	1366 × 768	48.4	60.0	100.1	
	1376 × 768	48.4	60.0	86.7	
MAC21	1152 × 870	68.7	75.1	100.0	
SXGA	1152 × 900	61.2	65.2	92.0	HDMI/RGB
		71.4	75.6	105.1	
		61.9	66.0	94.5	
	1280 × 960	60.0	60.0	108.0	
	1280 × 1024	62.5	58.6	108.0	
		63.3	60.0	107.3	
		63.7	60.0	109.5	
		63.9	60.0	108.0	
		71.7	67.2	117.0	
		81.1	76.1	135.0	
		64.0	60.2	108.1	
		80.0	75.0	135.0	
		63.4	60.0	111.5	
		77.0	72.0	130.1	
		63.8	60.2	109.5	
		91.1	85.0	157.5	
	1280 × 1024i	50.0	86.0	80.0	
		50.0	94.0	80.0	
		46.4	86.7	78.4	
MAC	1280 × 960	75.0	75.1	126.0	RGB
	1280 × 1024	80.0	75.1	135.2	
SXGA+	1400 × 1050	64.0	60.2	108.0	HDMI/RGB
		65.4	60.1	122.9	
		65.1	59.9	122.4	
WXGA+	1440 × 900	55.9	59.9	106.5	
		74.9	60.0	161.9	RGB
UXGA	1600 × 1200	75.0	60.0	162.0	
		81.3	65.0	175.5	
		87.5	70.0	189.0	
		93.8	75.0	202.5	
WSXGA+	1680 × 1050	65.3	60.0	146.3	HDMI/RGB
WUXGA	1920 × 1200	74.0	59.9	154.0	
		74.6	59.9	193.3	RGB

***1 The "i" appearing after the resolution indicates an interlaced signal.**

Serial connector

The serial connector complies with RS-232C. To control the projector from a personal computer, commands must be input through communication software, based on the format and satisfying the communication conditions shown below.

Pin assignments and signal names



D-sub 9-pin (male)
Serial input

No.	Signal name	Description	No.	Signal name	Description
1	–	NC	6	–	NC
2	TXD	Send data	7	–	NC
3	RXD	Receive data	8	–	NC
4	–	NC	9	–	NC
5	GND	Ground			

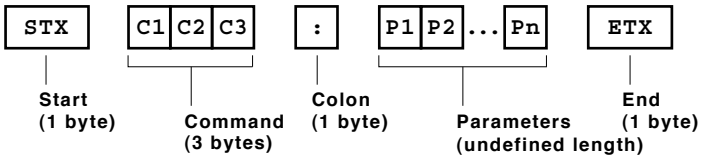
Communication conditions (factory setting)

Signal level	RS-232C-compliant
Synchronization method	Start-stop synchronization
Baud rate	19,200 bps
Parity	None

Character length	8 bits
Stop bit	1 bit
X parameter	None
S parameter	None

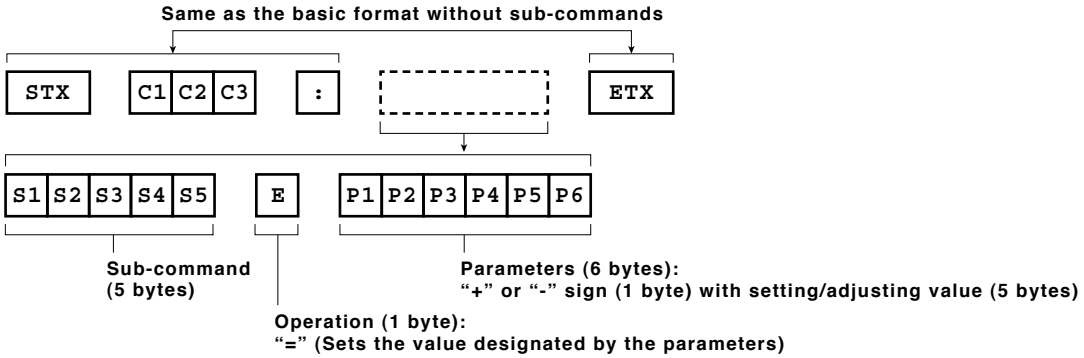
Basic format

Transmission from the computer begins with STX, then command, parameter, and ETX are sent in this order. Add parameters according to the details of control.



NOTE: When sending commands without parameters, a colon (:) is not necessary.

Basic format with sub-commands

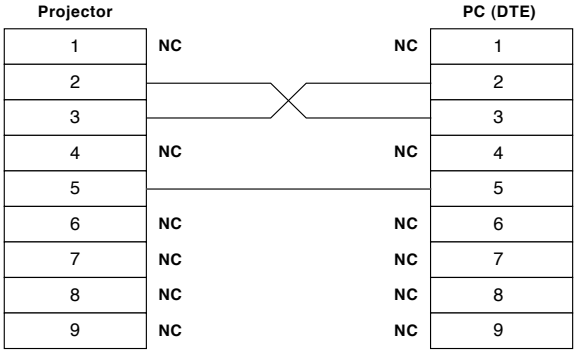


NOTE: When sending sub-commands that require no parameters, operation (E) and parameters are not necessary.

CAUTION

- **It may not be possible to send or receive commands for about 10 to 60 seconds when the lamp is first turned on. If this occurs, wait for 60 seconds, then try sending or receiving again.**
- **When sending multiple commands, be sure to wait for at least 0.5 second after receiving a response from the projector before sending the next command.**
- **Additional time is sometimes required for response due to processing inside the projector. Set the time-out period for command response to 10 seconds or more.**

Cable specifications



Control commands

Command: <Parameter>	Function	Callback: <Parameter>	Parameter value Min	Max
PON*1/*2	Power on (standby mode on)	PON	–	–
POF*1	Power off (standby mode off)	POF	–	–
AVL:<pl>	Volume control	AVL:<pl>	0	63
IIS:<input signal>	Input signal selection	IIS:<input signal>	–	–
OFZ:<off on>	Freeze	OFZ:<off on>	0	1
VPM:STD	Picture mode: Standard	VPM:STD	–	–
VPM:DYN	Picture mode: Dynamic	VPM:DYN	–	–
VPM:CIN	Picture mode: Cinema	VPM:CIN	–	–
VPM:REA	Picture mode: Real	VPM:REA	–	–
VPM:BBD	Picture mode: Blackboard	VPM:BBD	–	–
VPM:CBD	Picture mode: Colorboard	VPM:CBD	–	–
VPM:IM1	Picture mode: Image 1	VPM:IM1	–	–
VPM:IM2	Picture mode: Image 2	VPM:IM2	–	–
VPM:IM3	Picture mode: Image 3	VPM:IM3	–	–
VPM:IM4	Picture mode: Image 4	VPM:IM4	–	–
AUU	Volume up	AUU	–	–
AUD	Volume down	AUD	–	–
OSH*1	AV mute	OSH	–	–
DZU	Digital zoom: Enlargement	DZU	–	–
DZD	Digital zoom: Reduction	DZD	–	–

***1 Do not send PON, POF, or OSH commands continuously in a short period of time. Doing so may burst the lamp or shorten the lamp replacement cycle.**

***2 These commands are effective when the standby mode is set to eco. (Other commands are not effective.)**

Status request commands

Command	Description		Callback <Parameter>
QPW	Standby power status		<power condition>
Q$S	Lamp status		<lamp condition>
QIN	Input signal status		<input signal>
QAV	Volume adjustment value		<pl>
QPM	Picture mode status	Standard	STD
		Dynamic	DYN
		Cinema	CIN
		Real	REA
		Blackboard	BBD
		Colorboard	CBD
		Image 1	IM1
		Image 2	IM2
		Image 3	IM3
		Image 4	IM4
QFZ	Freeze status		<off_on>
Q$L	Lamp run time		<acctch>
QSH	AV mute function status		<off_on>

NOTE: If a wrong command is received, the projector will send an ER401 command to the computer.

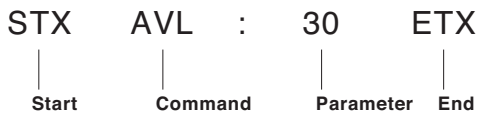
Parameter format

Parameter format	Size (Byte)	Definition
<pl>	3 (1 or 2 bytes also possible when under control)	Decimal without signs: 0 to 999 (000, 001, 002...999) Decimal with signs: -99 to +99 (-99...-01, +00, +01, +02...+99) Callback from the projector is 3 Byte.
<off on>	1	0 = off, 1 = on
<input signal>	3	HD1 = HDMI, RG1 = computer 1, RG2 = computer 2, VID = video, SVD = S-Video
<power condition>	3	000 = power off (standby mode off), 001 = power on (standby mode on)
<lamp condition>	1	0 = standby, 1 = lamp on under control, 2 = lamp on, 3 = lamp off under control
<acctch>	4	Decimal without signs: 0000–9999 hours

NOTE: If a wrong command is received, the projector will send an ER401 command to the computer.

Command example

To set the volume to +30, send the command as shown below.

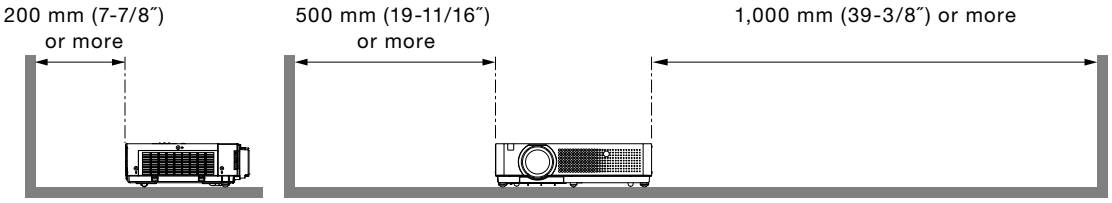


NOTE: When sending commands without parameters, a colon (:) is not necessary.

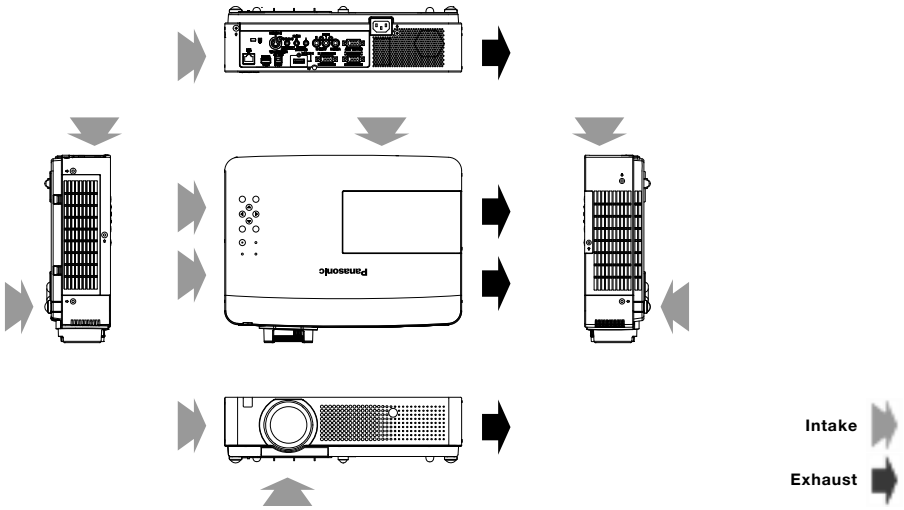
Notes on projector placement and operation

The projector uses a high-wattage lamp that becomes very hot during operation. Please observe the following precautions.

1. Never place objects on top of the projector while it is operating.
2. Make sure there is the unobstructed space as shown below or more around the projector's exhaust openings. In addition to this space, also ensure that there is a sufficient work space for removing and installing the lamp, filter and other parts.
3. Make sure that nothing blocks the projector's air intake and exhaust openings. Also, install the projector so that cool or hot air from other air conditioning equipment does not flow directly toward the projector's air intake or exhaust openings.
4. Do not install the projector in an enclosed space. If it is necessary to install it in an enclosed space, add a separate ventilation system. If ventilation is insufficient, hot air will accumulate at the intake opening. This may cause the projector's protective circuit to interrupt projector operation.



Direction of air intake and exhaust



Operating the projector continuously

1. If the projector is to be operated continuously 12 hours or more, lamp replacement cycle duration becomes shorter.
2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods (one hour or less).

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.

PJLink is a registered trademark, or a trademark application has been filed, in Japan, the United States, and other countries and regions.
All other trademarks are the property of their respective trademark owners.