Panasonic ideas for life

S F С Р E I L E



Product Number : PT-VX505N

Product Name :

LCD Projector

Specifications

Main unit		
Power supply		100–240 V AC, 50/60 Hz
Power consumption		365 W
		(0.3 W when STANDBY MODE set to ECO,*1 12.9 W when STANDBY MODE set
		to NETWORK.)
LCD panel	Panel size	16.0 mm (0.63 inches) diagonal (4:3 aspect ratio)
	Display method	Transparent LCD panel (× 3, R/G/B)
	Pixels	786,432 (1,024 \times 768) \times 3, total of 2,359,296 pixels
	Pixel configuration	
Long	Fixer configuration	Stripe
Lens		Manual zoom (1.6x), manual focus,
Throw ratio		F 1.60–2.12, f 15.28–24.62 mm
Throw ratio		1.18–1.90:1
Lamp		280 W UHM lamp
Screen size		0.76-7.62 m (30-300 inches) diagonally, 16:10 aspect ratio
Colors		Full color (16,777,216 colors)
Brightness*2	•• •	5,000 lumens (LAMP POWER: NORMAL)
Center-to-corner uniform	hity^2	85%
Contrast*2		4,000:1 (full on/off, LAMP POWER: NORMAL, with iris on)
Resolution		$1,024 \times 768$ pixels (Input signals that exceed this resolution will be
		converted to 1,024 × 768 pixels.)
Scanning frequency	HDMI	fн: 25 kHz-80 kHz, fv: 50 Hz-85 Hz,
		dot clock: 162 MHz or lower
	RGB	fH: 15 kHz-100 kHz, fv: 50 Hz-100 Hz, dot clock: 140 MHz or lower
		(Signals above 140 MHz are downsampled.)
	ҮРвРг (ҮСвСг)	480i (525i): fн 15.75 kHz; fv 60 Hz,
		576i (625i): fн 15.63 kHz; fv 50 Hz,
		480р (525р): fн 31.50 kHz; fv 60 Hz,
		576р (625р): fн 31.25 kHz; fv 50 Hz,
		720 (750)/60p: fн 45.00 kHz; fv 60 Hz,
		720 (750)/50p: fн 37.50 kHz; fv 50 Hz,
		1080 (1125)/60i: fн 33.75 kHz; fv 60 Hz,
		1080 (1125)/50i: fн 28.13 kHz; fv 50 Hz
	Video/S-Video	fн: 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		Vertical: +40% (manual)
Keystone correction range	ge	Vertical: ±30° (±20° with Real-Time Keystone Correction)
Installation		Ceiling/desk, front/rear (menu selection)
Built-in speaker	Size	4 cm (1-9/16 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* ³ (1,920 × 1,200),
		audio signal: linear PCM
		(sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)
	COMPUTER (RGB) 1 IN	D-sub HD 15-pin (female) × 1
	R, G, B	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, Pв (Св), Pr (Сr)	Y: 1.0 Vp-p (including sync signal);
		Рв (Св), Pr (Сr): 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.

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	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 I	
		RCA \times 2 (L/R \times 1), 0.5 Vrms
	AUDIO OUT	M3 (L, R) \times 1 (monitor out: 0-2.0 Vrms, variable)
	SERIAL IN	D-sub 9-pin (female) × 1, for external control (RS-232C compliant)
	LAN	RJ-45 × 1, for network connection, 100Base-TX/10Base-T, compliant with PJLink™
	USB A	USB A type-A \times 1, for the USB Memory Viewer
	USB B	USB B type-B \times 1, for the USB Display/Wireless Mouse
Power cord length		2.0 m (6 ft 7 in)
Cabinet materials		Molded plastic
Dimensions (W \times H \times D)		$379 \text{ mm} \times 107 \text{ mm}^{*4} \times 305 \text{ mm}^{*5}$
2		$(14-29/32 \times 4-7/32^{*4} \times 12^{*5} \text{ inches})$
Weight		Approximately 4.8 kg (10.6 lbs)
Operation noise		37 dB (LAMP POWER: NORMAL), 29 dB (LAMP POWER: ECO)
Operating temperature		0-40 °C ^{*6} (32-104 °F ^{*6}) up to 1,200 m (3,937 feet) above sea level,
operating temperature		with fan control set to OFF,
		0-30 °C (32-86 °F) between 1,200 m and 2,000 m (3,937 feet and
		6,561 feet) above sea level, with fan control set to on 1,
		0-30 °C (32-86 °F) between 2,000 m and 2,700 m (6,561 feet and
		8,858 feet) above sea level, with fan control set to on 2.
Operating humidity		20%-80% (no condensation)
Operating numbers		
Remote control unit		
Power supply		3 V DC (R03/LR03/AAA type battery × 2)
Operation range*6		Approximately 7 m (23 ft) when operated from directly in front of the
opolation range		signal receptor
Dimensions (W \times H \times D)		48 × 145 × 27 mm (1-7/8 × 5-23/32 × 1-1/16 inches)
Weight		Approx. 102 g (3.6 oz) (including batteries)
noight		
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),
	C C	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 ft 5 in)
Frequency range		2,412–2,472 MHz
Channels		1–13 ch
Security	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]
	ad-hoc mode*9	128-bit/64-bit WEP

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Wireless Manager ME 6	6.0 system requirements	To use network fur	nctions, a PC is required that meets the conditions
		given below.	
	OS	Microsoft®	
		Windows [®] XP:	Professional 32-bit, Home Edition 32-bit, compati-
			ble with SP3 only
		Windows Vista®:	Ultimate 32-bit/64-bit, Business 32-bit/64-bit, Home Premium 32-bit/64-bit, Home Basic 32- bit/64-bit, compatible with up to SP2
		Windows [®] 7:	Ultimate 32-bit/64-bit, Professional 32-bit/64-bit, Home Premium 32-bit/64-bit, compatible with up to SP1
		Apple Mac OS X*1	
	CPU		higher, or other compatible processor
	Memory	1024 MB or more	nigher, of other compatible processor
	Free hard disk space	1024 MB or more	
	CD-ROM drive		DVD drive (required for installation)
	Wireless LAN		compatible (built-in wireless LAN system or external
		IEEE 802.11b/g/n NOTE: Wireless connec LAN systems. M For IEEE 802.11	LAN card must be installed and running normally.) ction may not be possible with some IEEE 802.11b/g/n wireless Macintosh computers must have a built-in wireless LAN adapter. n connection, use a wireless LAN adapter, projector and access EEE 802.11n compatible, and connect with Infrastructure mode.
	Wired LAN connector	RJ-45 (1000Base-	T/100Base-TX/10Base-T)
Supplied accessories			
		. , .	(× 2 for PT-VX505NEA)
		AC power cord ho	
		Wireless remote co	
			te control (R03/LR03/AAA type × 2)
		Carrying bag (× 1)	
		• •	.8 m (5 ft 11 in), for VGA) (× 1)
			l (Logo Transfer Software, Multi Projector Monitoring I Software, Wireless Manager ME 6.0) (× 1)
Ontional accordantion			
Optional accessories Replacement lamp unit		ET-LAV200	
Replacement filter unit		ET-RFV200	
Ceiling mount bracket		ET-PKV100H (for h ET-PKV100S (for h	с с,
Bracket assembly		ET-PKV200B	

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 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).
- $\star 4$ With legs at shortest position.
- *5 Protruding parts not included.
- *6 If the lamp power is set to NORMAL and the operating environment temperature exceeds 35 °C (95 °F), the lamp power may be changed to Eco automatically.
- *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.
- $\star 10\,$ The operation system must be pre-installed at the factory or clean installed.

As of June 2012



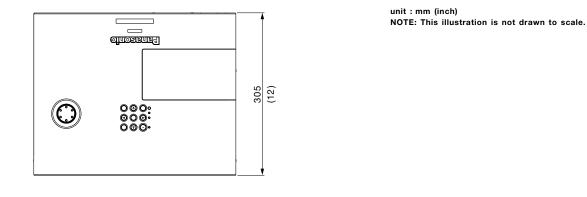
PT-VX505N

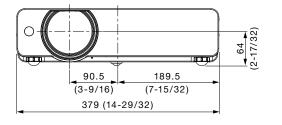
SPEC FILE

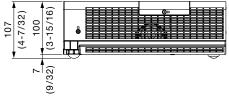
LCD Projector

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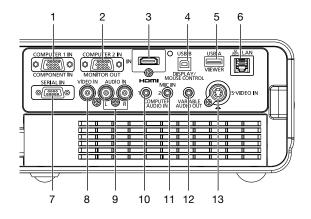
Dimensions







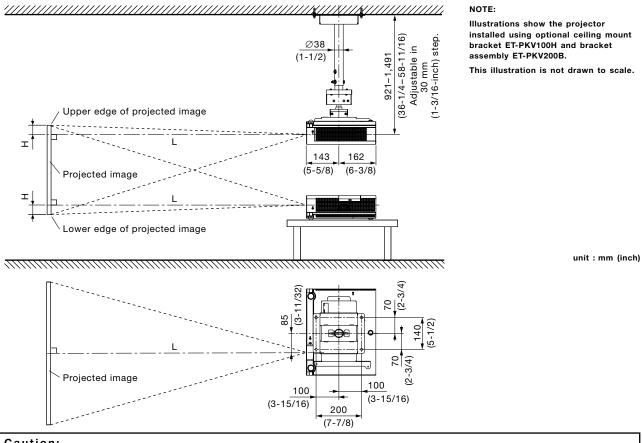
Terminals



- 1 Computer 1 input
- 2 Computer 2 input / computer 1 output
- 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

PT-VX505N

Standard setting-up position



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 (f						
Height from the edge of screen		Projection distance [L]		Projection size Projection dista		
of lens [H]	to center of	elephoto]	Max [te	n [wide]	Min	[diagonal]
(0.16-0.75)	0.05-0.23	(3.6)	1.1	(2.3)	0.7	0.76 m / 30″
(0.20 - 1.02)	0.06 - 0.31	(4.9)	1.5	(3.0)	0.9	1.02 m / 40″
(0.26 – 1.25)	0.08-0.38	(6.2)	1.9	(3.9)	1.2	1.27 m / 50″
(0.30 – 1.51)	0.09-0.46	(7.5)	2.3	(4.6)	1.4	1.52 m / 60″
(0.36 – 1.74)	0.11 – 0.53	(8.9)	2.7	(5.6)	1.7	1.78 m / 70″
(0.39 – 2.00)	0.12-0.61	(10.2)	3.1	(6.2)	1.9	2.03 m / 80″
(0.46-2.26)	0.14-0.69	(11.5)	3.5	(7.2)	2.2	2.29 m / 90″
(0.49-2.49)	0.15-0.76	(12.8)	3.9	(7.9)	2.4	2.54 m / 100"
(0.59 – 2.99)	0.18-0.91	(15.4)	4.7	(9.5)	2.9	3.05 m / 120"
(0.75 – 3.74)	0.23-1.14	(19.0)	5.8	(11.8)	3.6	3.81 m / 150″
(1.02 – 4.99)	0.31 – 1.52	(25.6)	7.8	(15.7)	4.8	5.08 m / 200″
(1.25 – 6.27)	0.38 – 1.91	(31.8)	9.7	(19.7)	6.0	6.35 m / 250″
(1.51 – 7.51)	0.46-2.29	(38.4)	11.7	(23.6)	7.2	7.62 m / 300″

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.

SPEC FILE

LCD Projector

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) \times 0.0243 - 0.0294 maximum L (m) = (diagonal screen size in inches) \times 0.0391 - 0.0319

NOTE:

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

Shift range

Optical axis shift function allows to shift the position of a projected image as shown below.

• Floor mount

н н (Width of (Width of projected image) projected image) 0.4V projected image) (Height of V (Height of projected image) > Standard postition of projected image Standard postition of projected image 0.4V

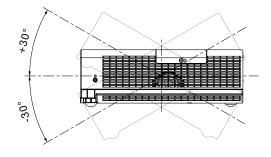
• Ceiling mount

Installable angle

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

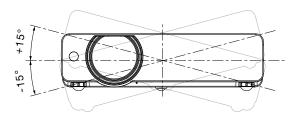
• Vertical direction

The projector may be installed at a vertical angle of 30° .



• Horizontal direction

The projector may be installed at a horizontal angle of 15°.



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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.

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Display mode	Display	Scanning fre		Dot clock	Format
	resolution (dots)* ¹	H (kHz)	V (kHz)	frequency (MHz)	
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	-	-
480i (525i)	640 × 480i	15.7	59.9	12.3	YP _B P _R /RGB
576i (625i)	768 × 576i	15.6	50.0	14.8	-
480p (525p)	640 × 480	31.5	59.9	25.2	HDMI/YPBPR/RG
576p (625p)	768 × 576	31.3	50.0	29.5	
720p	1280 × 720	45.0	60.0	74.3	-
- 1		37.5	50.0	74.3	-
1035i	1920 × 1035i	33.8	60.0	74.3	-
1080i	1920 × 1080i	33.8	60.0	74.3	-
	1020 10001	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
	010 × 100	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	0+0 × 400	35.0	66.7	30.2	-
SVGA	800 × 600	32.7	51.1	32.7	-
	000 × 000	34.5	55.4	36.4	-
		35.2	56.3	36.0	-
		37.9	60.3	40.0	-
		37.9	61.0	40.0	-
			60.5	40.0	-
		38.0	60.3	38.6	-
				49.5	-
		46.9	75.0	49.5	-
		48.1	72.2		-
MAC16	000 004	53.7	85.1	56.3	-
	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	DOD
		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.

PT-VX505N

Display mode	Display	Scanning fre	quency	Dot clock	Format
	resolution (dots)* ¹	H (kHz)	V (kHz)	frequency (MHz)	
VXGA	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	-
IAC21	1152 × 870	68.7	75.1	100.0	-
XGA	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	
	1200 × 1024	63.3	60.0	107.3	-
		63.7	60.0	107.3	
		63.9	60.0	109.5	
			67.2	108.0	
		<u>71.7</u> 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	
AC	1280 × 960	75.0	75.1	126.0	RGB
	1280 × 1024	80.0	75.1	135.2	
XGA+	1400 × 1050	64.0	60.2	108.0	HDMI/RGB
		65.4	60.1	122.9	_
		65.1	59.9	122.4	
XGA+	1440 × 900	55.9	59.9	106.5	-
		74.9	60.0	161.9	RGB
XGA	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	-
VSXGA+	1680 × 1050	65.3	60.0	146.3	HDMI/RGB
			59.9	154.0	
/UXGA	1920 × 1200	74.0	39.9	104.0	

*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.

PT-VX505N

Pin assignments and signal names

6 9	No.	Signal name	Description	No.	Signal name	Description
	1	-	NC	6	-	NC
$\left(\bigcirc \bigcirc$	2	TXD	Send data	7	RTS	Connected internally
	3	RXD	Receive data	8	CTS	Connected internally
1 5	4	-	NC	9	-	NC
1 5	5	GND	Ground			
D-sub 9-pin (female)						

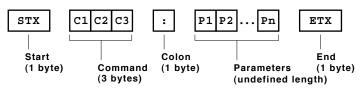
Serial input

Communication conditions (factory setting)

Signal level	RS-232C-compliant	Character length	8 bits	
Synchronization method	Start-stop synchronization	Stop bit	1 bit	
Baud rate	19,200 bps	X parameter	None	
Parity	None	S parameter	None	

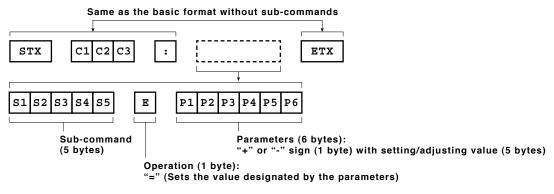
Basic format

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

Projector		PC (DTE)
1		: 1
2		2
3		3
4	NC NC	4
5		5
6	NC NC	6
7		7
8]	- 8
9] NC NC	9

Control commands

Command: <parameter></parameter>	Function	Callback: <parameter></parameter>	Parameter value	
			Min	Max
PON*1/*2	Power on (standby mode on)	PON	-	-
POF*1	Power off (standby mode off)	POF	-	-
AVL: <pl></pl>	Volume control	AVL: <pl></pl>	0	63
IIS: <input signal=""/>	Input signal selection	IIS: <input signal=""/>	-	-
OFZ: <off on=""></off>	Freeze	OFZ: <off on=""></off>	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	
QPW	Standby power status		<power condition=""></power>	
Q\$S	Lamp status		<lamp condition=""></lamp>	
QIN	Input signal status		<input signal=""/>	
QAV	Volume adjustment value		<pl></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></off_on>	
Q\$L	Lamp run time		<acctch></acctch>	
QSH	AV mute function status		<off_on></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></pl>	3 (1 or 2 bytes also	Decimal without signs: 0 to 999 (000, 001, 002999)
	possible when	Decimal with signs: -99 to +99 (-9901, +00, +01, +02+99)
	under control)	Callback from the projector is 3 Byte.
<off on=""></off>	1	0 = off, 1 = on
<input signal=""/>	3	HD1 = HDMI, RG1 = computer 1, RG2 = computer 2, VID = video,
		SVD = S-Video, NWP = network
<power condition=""></power>	3	000 = power off (standby mode off), 001 = power on (standby mode on)
<lamp condition=""></lamp>	1	0 = standby, 1 = lamp on under control, 2 = lamp on,
		3 = lamp off under control
<acctch></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.



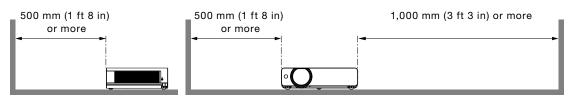
NOTE: When sending commands without parameters, a colon (:) is not necessary.

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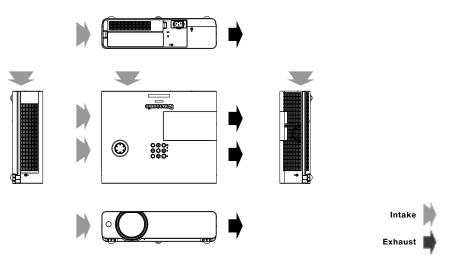
Notes on projector placement and operation

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.

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