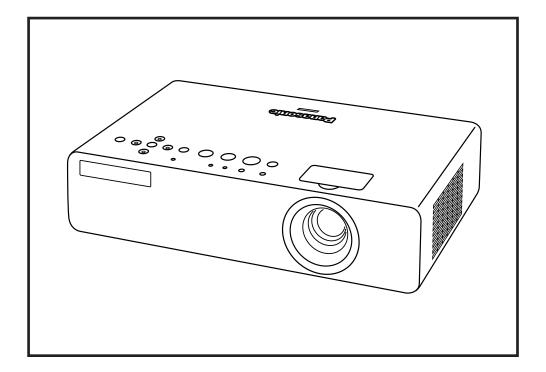
Panasonic ideas for life

SPEC FILE



Product Number: PT-LW80NT

Product Name: LCD Projector

Portable LCD Projector

PT-LW80N

Specifications

100-240 V AC, 50/60 Hz Power supply

Power consumption 300 W (approx. 3 W in standby mode with fan stopped. 28 W in

standby mode when controlled by a Web browser.)

Optical system Dichroic mirror separation/prism synthesis system

LCD panel Panel size 0.59" (15 mm) diagonal, micro lens array (16:10 aspect ratio)

Display method Transparent LCD panel (x 3, R/G/B)

Drive method Active matrix

1,024,000 (1,280 x 800) x 3, total of 3,072,000 pixels Pixels

Pixel configuration Stripe

Lens Manual zoom (1:1-1:1.2), manual focus

F 1.7-1.9, f 18.5-22.2 mm

Throw ratio 1.5 - 1.8:1220 W UHM lamp Lamp

Colors Full color (16,777,216 colors)

Brightness*1 2,600 lumens

Center-to-corner uniformity ratio*1 85%

500:1 (full on/full off) Contrast ratio*1

Resolution RGB 1,280 x 800 pixels (Input signals that exceed this resolution will be

converted to 1,280 x 800 pixels.)

Scanning frequency **RGB** Horizontal: 15.00-91.00 kHz, Vertical: 50-85 Hz

YPB**P**R 480i (525i): fn 15.75 kHz; fv 60 Hz 576i (625i): fH 15.63 kHz; fv 50 Hz 480p (525p): fH 31.50 kHz; fv 60 Hz 576р (625р): fн 31.25 kHz; fv 50 Hz

720/60p (750p): fH 45.00 kHz; fv 60 Hz 1080/60i (1125i): fH 33.75 kHz; fv 60 Hz 1080/50i (1125i): fH 28.13 kHz; fv 50 Hz

S-Video/Video NTSC, NTSC4.43, PAL-M, PAL60: fh 15.75 kHz; fv 60 Hz

PAL, SECAM, PAL-N: fh 15.63 kHz; fv 50 Hz

Projection size 838-7,620 mm (33-300 inches) diagonally, 4:3 aspect ratio

9:1 (fixed) Optical axis shift

Keystone correction range Vertical: approx. ±30°

On-screen menu 17 languages: English, French, German, Spanish, Italian, Korean,

Russian, Chinese, Japanese, Swedish, Norwegian, Danish, Portuguese,

Polish, Hungarian, Czech, and Thai Front/rear, ceiling/desk (menu selection)

Built-in speakers Size 4 x 2 cm, x 1, oval Output power 1.0 W (monaural)

COMPUTER (RGB) 1 IN D-sub HD 15-pin x 1

RGB signal R, G, B: 0.7 Vp-p, 75 Ω , Sync on green: 1.0 V [p-p], 75 Ω ,

HD/SYNC, VD: TTL (positive/negative polarity compatible)

YPBPR signal Y: 1.0 V [p-p] (including sync signal), 75 Ω , PB, PR: 0.7 Vp-p, 75 Ω

COMPUTER (RGB) 2 IN/1 OUT

D-sub HD 15-pin x 1 (input/output selectable using on-screen menu) RGB signal R, G, B: 0.7 V [p-p], 75 Ω , Sync on green: 1.0 V [p-p], 75 Ω ,

HD/SYNC, VD: TTL (positive/negative polarity compatible)

YPBPR signal Y: 1.0 V [p-p] (including sync signal), 75 Ω , PB, PR: 0.7 V [p-p], 75 Ω

VIDEO IN RCA pin x 1, 1.0 Vp-p, 75 Ω

S-VIDEO IN Mini DIN 4-pin x 1, Y: 1.0 V [p-p], C: 0.286 V [p-p], 75 Ω COMPUTER AUDIO IN M3 (L, R) x 1, 0.5 V [rms], for COMPUTER (RGB) 1 and 2 RCA (L, R) x 1, 0.5 V [rms], for VIDEO and S-VIDEO AUDIO IN

VARIABLE AUDIO OUT M3 (L, R) x 1, 0-2.0 V [rms]

SERIAL D-sub 9-pin x 1, for external control (RS-232C)

Power cord length 2 m/6.6

Moulded plastic (PC+ABS) Cabinet material

368 x 88 x 233 mm (14-1/2" x 3-15/32" x 9-3/16")*2 Dimensions (W x H x D)

Weight*2

Installation

Terminals

Approx. 2.96 kg (6.5 lbs.) Operating environment

0°-40°C (32°-104°F) Temperature 20%-80% (no condensation) Humidity

Wireless LAN

PT-LW80NT

Remote control unit Power supply 3 V DC (AA battery x 2)

Operation range*3 Approx. 15 m (49'3") when operated from directly in front of the signal

receptor

Dimensions (W x H x D) 48 x 163 x 24.5 mm (1-7/8" x 6-13/32" x 31/32")

Weight*2 Approx. 117 g (4.1 oz) (including batteries)

Standard IEEE 802.11b/g (ARIB STD-T66)

Modulation

Channels

IEEE 802.11b Direct sequence spread spectrum (DS-SS) system
IEEE 802.11g Orthogonal frequency division multiplex (OFDM) system

Transmission system

IEEE 802.11g 64-QAM (54/48 Mbps), 16-QAM (36/24 Mbps), QPSK (18/12 Mbps),

BPSK (9/6 Mbps)

Transmission speed

IEEE 802.11g 54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps,

6 Mbps

Operating range*3 Approx. 30 m (98'5")

Frequency range PT-LB80NTE/LB80NTEA: 2,412 MHz-2,472 MHz

PT-LB80NTU: 2,412 MHz-2,462 MHz PT-LB80NTE/LB80NTEA: 1-13 ch

PT-LB80NTU: 1-11 ch

Wireless Manager ME 5.0 system requirements To use network functions, a PC is required that meets the conditions

given below.

OS Microsoft® Windows® 2000 Professional SP4, Windows® XP

Professional, Windows® XP Home Edition, Windows® XP Tablet PC Edition 2005, Windows Vista® Ultimate 32-bit, Windows Vista® Business 32-bit, Windows Vista® Home Premium 32-bit, Windows

Vista® Home Basic 32-bit

Apple Mac OS X 10.4 (Tiger) and OS X 10.5* (Leopard)

NOTE: Some functions are not available with Windows Vista® and Mac.

Web browser Windows®: Internet Explorer 6.0 or later, or Netscape Communicator

7.0 or later

Mac OS: Safari 2.0 or later

CPU Windows®: Intel® Pentium® III or higher, or other compatible processor

(1 GHz or higher is recommended.)

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

Wireless LAN IEEE 802.11b/g compatible (built-in wireless LAN system or external

IEEE 802.11b/g LAN card must be installed and running normally.)
NOTE: Some IEEE 802.11g/b wireless LAN may not allow connection to the projec-

tor. For Mac OS, Built-in IEEE 802.11b/g wireless LAN adapter must be

installed and sunning negrotly

installed and running normally.

Supplied accessories Power cord

Power cord secure lock Wireless remote control Batteries for remote control

VGA cable for RGB signals (1.8 m/5'11")

Carrying bag

Wireless Manager ME 5.0 (CD-ROM) Replacement lamp unit: ET-LAB80 Ceiling mount bracket: ET-PKB80

Optional accessories

*1: Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.

*2: Average value. May differ depending on models.

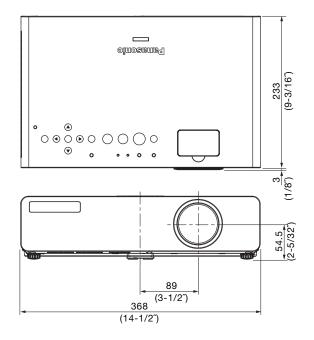
*3: Operation range differs depending on environments. Weights and dimensions shown are approximate. Specifications subject to change without notice.

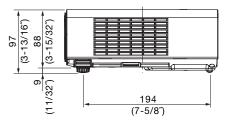
Weights and dimensions shown are approximate. Specifications are subject to change without notice. This product may be subject to export control regulations. Intel and Pentium are registered trademarks of Intel Corporation. Microsoft, Windows Vista and Windows are either registered trademarks or trademarks of Microsoft Corp. in the United States and/or other countries. Apple, Mac, Mac OS, Macintosh and Safari are trademarks of Apple Inc., registered in the U.S. and other countries. All other trademarks are the property of their respective trademark owners. Projection images simulated.

PT-LW80NT

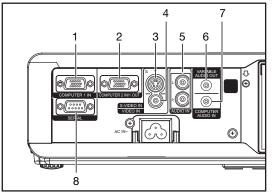
Dimensions

 $\mbox{unit:mm (inch)} \\ \mbox{NOTE: This illustration is not drawn to scale.} \\$





Terminals



- 1 COMPUTER (RGB) 1 input
- 2 COMPUTER (RGB) 2 input/COMPUTER (RGB) 1 output
- 3 S-Video input
- 4 Video input
- 5 Audio input for Video/S-Video
- 6 Audio output
- 7 Audio input for COMPUTER 1/2
- 8 Serial

PT-LW80NT

Standard setting-up positions

Upper edge of projected image

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

(1-15/16/16)

unit : mm (inch)

- L: Distance to screen
- H: Height from the edge of screen to center of lens

NOTE:

Illustrations show the projector installed using optional ceiling bracket.

This illustration is not drawn to scale.

Projection distance for 16:10 aspect ratio screen

Projection distance for 16:9 aspect ratio screen

Projection size (diagonal)	Projection Min (wide)	distance (L) Max (telephoto)	Height from the edge of screen to centre of lens (H)	Projection size (diagonal)	Projection Min (wide)	distance (L) Max (telephoto)	Height from the edge of screen to centre of lens (H)
0.84 m / 33"	-/ -	1.1 m / 3.9′	0.04 m / 0.15′	0.84 m / 33"	-/ -	1.2 m / 4.0′	0.02 m / 0.10′
1.02 m / 40"	1.3 m / 4.0′	1.4 m / 4.7	0.05 m / 0.18′	1.02 m / 40"	1.3 m / 4.1′	1.4 m / 4.9′	0.03 m / 0.12'
1.27 m / 50"	1.6 m / 5.0′	1.8 m / 6.0′	0.07 m / 0.22′	1.27 m / 50"	1.6 m / 5.2′	1.8 m / 6.2′	0.04 m / 0.15′
1.52 m / 60"	1.9 m / 6.0′	2.1 m / 7.2′	0.08 m / 0.26′	1.52 m / 60"	1.9 m / 6.2′	2.2 m / 7.4′	0.04 m / 0.18′
1.78 m / 70"	2.2 m / 7.0′	2.5 m / 8.4	0.09 m / 0.31′	1.78 m / 70″	2.3 m / 7.3′	2.6 m / 8.7′	0.05 m / 0.21′
2.03 m / 80"	2.5 m / 8.0′	2.9 m / 9.6′	0.11 m / 0.35′	2.03 m / 80"	2.6 m / 8.3′	3.0 m / 9.9′	0.06 m / 0.24′
2.29 m / 90"	2.8 m / 9.1′	3.3 m / 10.8′	0.12 m / 0.40′	2.29 m / 90"	2.9 m / 9.3′	3.4 m / 11.2′	0.07 m / 0.27′
2.54 m / 100"	3.1 m / 10.1′	3.6 m / 12.1′	0.13 m / 0.44′	2.54 m / 100"	3.2 m / 10.4′	3.7 m / 12.4′	0.07 m / 0.30′
3.05 m / 120"	3.7 m / 12.1′	4.4 m / 14.5′	0.16 m / 0.53´	3.05 m / 120"	3.9 m / 12.5′	4.5 m / 14.9′	0.09 m / 0.36′
3.81 m / 150"	4.7 m / 15.2′	5.5 m / 18.2´	0.20 m / 0.66′	3.81 m / 150"	4.8 m / 15.6′	5.6 m / 18.7′	0.11 m / 0.45′
5.08 m / 200"	6.2 m / 20.3′	7.3 m / 24.3′	0.27 m / 0.88′	5.08 m / 200"	6.4 m / 20.9′	7.6 m / 25.0′	0.15 m / 0.60′
6.35 m / 250"	7.8 m / 25.4′	9.2 m / 30.4	0.34 m / 1.10′	6.35 m / 250"	8.0 m / 26.1′	9.5 m / 31.2′	0.19 m / 0.75′
7.62 m / 300"	9.3 m / 30.5′	11.1 m / 36.5	0.40 m / 1.32′	7.62 m / 300"	9.6 m / 31.3′	11.4 m / 37.5′	0.22 m / 0.90′

^{*} This distance is especially recommended for ceiling-mounted use and other permanent installations.

Values shown are approximate. The value for L (distance to screen) varies slightly depending on the zoom lens characteristics.

When the shortest projection distance is used, a small amount of distortion may occur in the image due to the zoom lens characteristics.

Calculation of the projection distance

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

Aspect ratio 16:10 minimum L (m) = (diagonal screen size in inches) x 0.0311 - 0.040

maximum L(m) = (diagonal screen size in inches) x 0.0372 - 0.044

Aspect ratio 16:9 minimum L (m) = (diagonal screen size in inches) x 0.0319 - 0.025

maximum L (m) = (diagonal screen size in inches) x 0.0382 - 0.035

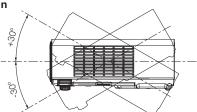
NOTE: Distances calculated with the above equations will include a slight error.

Installable Angle

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

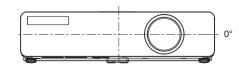
• Vertical direction

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



• Vertical direction

The projector may not be angled horizontally.



Computer data compatibility

This projector accepts up to 91 kHz horizontal scanning frequency and 193 MHz dot clock.

NOTE: Pixel thinning is applied to signals that exceed a dot clock frequency of 110 MHz. The display resolution of this projector is 1,280 x 800 pixels. Input signals that exceed this resolution will be converted to 1,280 x 800 pixels.

List of compatible signals

Display mode	Display resolution (dots) ¹	Scanning H (kHz)	frequency V (kHz)	Dot clock frequency (MHz)	Picture quality ²	Input terminal
NITCC/NITCC4 42/DAL M/DALCO	, ,		. , ,	• •	Δ.	VIDEO/C VIDEO
NTSC/NTSC4.43/PAL-M/PAL60	720 x 480i	15.7	59.9		A	VIDEO/S-VIDEO
PAL/PAL-N/SECAM	720 x 576i	15.6	50.0	-	Α .	2011011750 (2020)
525i (480i)	720 x 480i	15.7	59.9	13.5	A	COMPUTER (RGB/YPBPR)
625i (576i)	720 x 576i	15.6	50.0	13.5	Α	-
525p (480p)	720 x 483	31.5	59.9	27.0	Α	-
625p (576p)	720 x 576	31.3	50.0	27.0	Α	
750 (720)/60p	1280 x 720	45.0	60.0	74.3	A	COMPUTER (RGB/YPBPR)
750 (720)/50p	1280 x 720	37.5	50.0	74.3	A	
1125 (1080)/60i	1920 x 1080i	33.8	60.0	74.3	A	COMPUTER (RGB/YPBPR)
1125 (1080)/50i		28.1	50.0	74.3	Α	
VESA70	640 x 400	31.5	70.1	25.2	Α	COMPUTER (RGB only)
VESA85		37.9	85.1	31.5	Α	-
VGA60	640 x 480	31.5	59.9	25.2	Α	_
VGA65		35.0	66.7	30.2	Α	
VGA72		37.9	72.8	31.5	Α	
VGA75		37.5	75.0	31.5	Α	
VGA85		43.3	85.0	36.0	Α	
SVGA55	800 x 600	35.2	56.3	36.0	Α	•
SVGA60		37.9	60.3	40.0	Α	•
SVGA70		48.1	72.2	50.0	Α	-
SVGA75		46.9	75.0	49.5	Α	-
SVGA85		53.7	85.1	56.3	Α	-
MAC16	832 x 624	49.7	74.6	57.3	Α	•
XGA50	1024 x 768	39.6	50.1	51.9	AA	•
XGA60	102 1 7 100	48.4	60.0	65.0	AA	•
XGA70		56.5	70.1	75.0	AA	•
XGA75		60.0	75.0	78.8	AA	-
XGA85		68.7	85.0	94.5	AA	-
WXGA768	1280 x 768	39.6	49.9	65.3	A	-
WAGA700	1200 X 700	47.8	59.9	79.5	A	-
WXGA800	1280 x 800	41.3	50.0	68.0	A	
WAGAGOO	1260 X 600					
		49.1	60.2	69.1	A	
MVO 4 70	1150 × 004	49.7	59.8	83.5	A	-
MXGA70	1152 x 864	64.0	71.2	94.2	Α	-
MXGA75		67.5	74.9	108.0	Α	=
MXGA85		76.7	85.0	121.5	В .	=
MAC21	1152 x 870	68.7	75.1	100.0	A	-
MSXGA60	1280 x 960	60.0	60.0	108.0	Α	-
SXGA60	1280 x 1024	64.0	60.0	108.0	A	
SXGA75		80.0	75.0	135.0	В	
SXGA85		91.1	85.0	157.5	В	
SXGA60+	1400 x 1050	64.0	60.0	108.0	Α	-
		65.1	59.9	122.4	В	-
WXGA+	1440 x 900	55.9	59.9	106.5	Α	-
UXGA60	1600 x 1200	75.0	60.0	162.0	В	_
WSXGA+	1680 x 1050	65.3	60.0	146.3	В	
WUXGA	1920 x 1200	74.6	59.9	193.3	В	

- 1. The "i" appearing after the resolution indicates an interlaced signal.
- 2. The following symbols are used to indicate picture quality.
 - AA Maximum picture quality can be obtained.

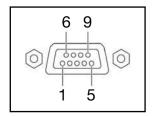
 - A Signals are converted by the image processing circuit before picture is projected.

 B Signals are compressed by the image processing circuit before picture is projected.
- 3. When 750 (720)/60p or 750 (720)/50p signals are input to a computer input terminal, images are projected in the WIDE750 (720) format. Be sure to run the auto setup function.

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



No.	Signal name	Description	No.	Signal name	Signal name
1	-	NC	6	-	NC
2	TXD	Send data	7	CTS	Connected internally
3	RXD	Receive data	8	RTS	Connected internally
4	_	Connected internally	9	-	NC
5	GND	Ground			

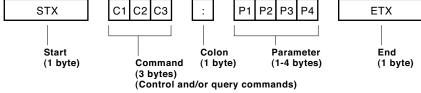
D-sub HD 9-pin, female

Communication conditions (factory setting)

Signal level	RS-232C-compliant
Synchronization method	Start-stop synchronization
Baud rate	9,600 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 the ID, command, parameter, and ETX are sent in this order. Add parameters according to the details of control.



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.

NOTE:

If a wrong command is received, the projector will send an ER401 command to the computer. When sending commands without parameters, a colon (:) is not necessary.

Cable specifications

Projector	_	_	PC (DTE)
1	NC	ис Г	1
2		_	2
3		-	3
4	NC	ис [4
5			5
6	DSR	ис [6
7		_	7
8		-	8
9	NC	ис [9

PT-LW80NT

Control commands

Command: <parameter></parameter>	Function	Callback: <parameter></parameter>	Parameter value	
			Min	Max
PON*1	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=""/>	-	-
OST	The same function as "default" button	OST	-	-
OFZ: <off on=""></off>	Freeze	OFZ: <off_on></off_on>	0	1
OEN	Enter	OEN	-	-
OXG: <off on=""></off>	Wide mode	OXG: <off_on></off_on>	0	1
VPM: <nat></nat>	Picture mode: Natural	VPM: <nat></nat>	-	-
VPM: <std></std>	Picture mode: Standard	VPM: <std></std>	-	-
VPM: < DYN>	Picture mode: Dynamic	VPM: < DYN>	-	-
VPM: <bbd></bbd>	Picture mode: Blackboard	VPM: <bbd></bbd>	-	-
VXX:DLVI0=<+00000>	Daylight View: Off	VXX:DLVI0=<+00000>	-	-
VXX:DLVI0=<+00001>	Daylight View: Auto	VXX:DLVI0=<+00001>	-	-
VXX:DLVI0=<+00002>	Daylight View: On	VXX:DLVI0=<+00002>	-	-
AUU	Volume up	AUU	-	-
AUD	Volume down	AUD	-	-
оми	Menu	OMN	-	-
ocu	Cursor up	ocu	-	-
OCD	Cursor down	OCD	-	-
OCL	Cursor left	OCL	-	-
OCR	Cursor right	OCR	-	-
OAS	Auto setup	OAS	-	-
OSH*1/*2	AV mute	OSH	-	-
OIX	Index window	OIX	-	-
DZU	Digital zoom: Enlargement	DZU	-	_
DZD Digital zoom: Reduction		DZD	_	

Status asking commands

Command	Description	Callback
		<parameter></parameter>
QPW	Standby power status	<power condition=""></power>
Q\$S	Lamp status	<pre><lamp condition=""></lamp></pre>
QIN	Input signal status	<input signal=""/>
VAÇ	Volume adjustment value	<pl><p1></p1></pl>
QVC	Color adjustment value	<p1></p1>
QVÇs	Tint adjustent value	<pl><p1></p1></pl>
QVB	Brightness adjustment value	<p1></p1>
QVR	Contrast adjustment value	<p1></p1>
QVS	Sharpness adjustment value	<pl><p1></p1></pl>
QWR	White balance: R adjustment value	<p1></p1>
QWG	White balance: G adjustment value	<p1></p1>
QWB	White balance: B adjustment value	<p1></p1>
OHD	Horizontal position adjustment value	<pl><p1></p1></pl>
QÇuP	Vertical position adjustment value	<p1></p1>
QCP	Clock phase adjustment value	<pl><p1></p1></pl>
QDC	Dot clock adjustment value	<p1></p1>
QSP	Projection method status	<p1></p1>
QLG	On-screen menu language	<p1></p1>
QXG	Wide mode status	<off_on></off_on>
QVX:DLVI0	Daylight View status Off	<+00000>
	Auto	<+00001>
	On	<+00002>
QPM	Picture mode status Natural	<nat></nat>
	Standard	<std></std>
	Dynamic	<dyn></dyn>
	Blackboard	<bbd></bbd>
) F Z	Freeze status	<off_on></off_on>
Q\$L	Lamp run time	<acctch></acctch>
QSH	Shutter function status	<off_on></off_on>
QKS	Keystone correction status	<pl><p1></p1></pl>
QTE	Color temperature adjustment status	<color temp=""></color>

 ^{*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 When a command other than OSH is sent while the shutter function is operating, the projector will send an ER401 command in reply and release the shutter function.

Parameter format

Parameter format	Size (Byte)	Definition
<pl><pl></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	RG1 = computer 1, RG2 = computer 2, NWP = network,
		YUV = component, VID = video, SVD = S-Video
<installation></installation>	1	0 = front, 1 = rear, 2 = ceiling and front, 3 = ceiling and rear
<language></language>	3	ENG = English, DEU = German, FRA = French, ESP = Spanish,
		ITL = Italian, JPN = Japanese, CHI = Chinese, POR = Portuguese,
		SVE = Swedish, NOR = Norwegian, DAN = Danish, POL = Polish,
		CES = Czech, MAG = Hungarian, RUS = Russian, THA = Thai, KOR = Korean
<pre><power condition=""></power></pre>	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 off,
		3 = lamp off under control
<acctch></acctch>	4	Decimal without signs: 0000-9999 hours
<color temp=""></color>	1	0 = economy, 1 = normal, 2 = high
<date></date>	8	y1y2y3y4m1m2d1d2w = year (y) month (m) day (d) day of week (w)
		Day of week: Monday = 1, Tuesday = 2, Sunday = 7
<time></time>	6	h1h2m1m2s1s2 = hour (h) minute (m) second (s)

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.

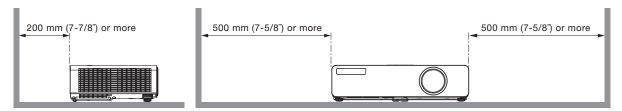


NOTE: When sending commands without parameters, a colon (:) is not necessary.

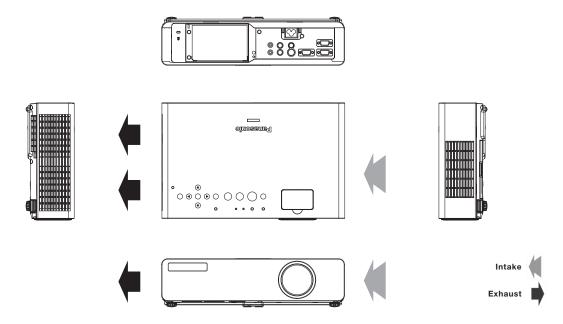
Notes on Projector Placement and Operation:

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 an unobstructed space of 150 mm (5-29/32") or more around the projector's exhaust openings.
- 3. If the projector is placed in a box or enclosure, ensure the temperature of the air surrounding the projector is between 0°C/32°F and 35°C/95°F. Also make sure the projector's intake and exhaust openings are not blocked. Take particular care to ensure that hot air from the exhaust openings is not sucked into the intake openings.



Direction of Air Intake and Exhaust



Operating the Projector Continuously

- If the projector is to be operated continuously 10 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 are subject to change without notice. This product may be subject to export control regulations. Intel and Pentium are registered trademarks of Intel Corporation. Microsoft, Windows Vista and Windows are either registered trademarks or trademarks of Microsoft Corp. in the United States and/or other countries. Apple, Mac, Mac OS, Macintosh and Safari are trademarks of Apple Inc., registered in the U.S. and other countries. All other trademarks are the property of their respective trademark owners. Projection images simulated.