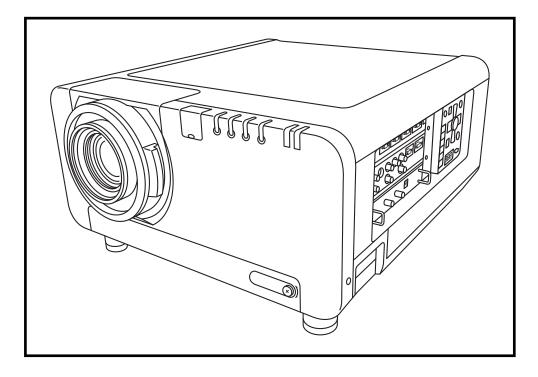
Panasonic ideas for life

S C



Product Number : PT-**DW100**

Product Name : 3-Chip DLP™ Projector

SPEC FILE

3-Chip DLP™ Projector

Specifications

PT-**DW100**

Main Unit		
Power supply:	North America:	120-240 V AC, 16-9.0 A, 50/60 Hz (3-wire single-phase)
	Europe, Asia	220-240 V AC, 9.5 A, 50/60 Hz (3-wire single-phase)
Power consumption:	North America:	1,600–1,500 W (10-15 W in standby mode with fan stopped)
·	Europe, Asia	1,500 W (15 W in standby mode with fan stopped)
DLP™ chip:	Panel size:	0.85" diagonal (16:9 aspect ratio)
	Display method:	DLP™ chip x 3 (R, G, B), DLP™ projection system
	Pixels:	1,049,088 (1,366 x 768) x 3, total of 3,147,264 pixels
Lens:		Optional powered zoom/focus lenses
Lamp:		300 W UHM lamp x 4
Screen size:		70-600 inches, 16:9 aspect ratio
		(70-300 inches with the ET-D75LE5, 16:9 aspect ratio)
Brightness*1:		10,000 lumens (four-lamp operation mode)
Center-to-corner uniform	mity*1:	90%
Contrast*1:		5,000:1 (full on/full off, in dynamic iris 3 mode)
Resolution:		1,366 x 768 pixels (Input signals that exceed this resolution will be
		converted to 1,366 x 768 pixels.)
Scanning frequency:	RGB:	Horizontal: 15-100 kHz, Vertical: 24-120 Hz*2,
		Dot clock: 20-162 MHz
	YPBPr (YCBCr):	480i: fн 15.75 kHz; fv 60 Hz, 576i: fн 15.63 kHz; fv 50 Hz,
		480p: fн 31.50 kHz; fv 60 Hz, 576p: fн 31.25 kHz; fv 50 Hz,
		720/60p: fн 45.00 kHz; fV 60 Hz, 720/50p: fн 37.50 kHz; fV 50 Hz,
		1035/60i: fн 33.75 kHz; fv 60 Hz, 1080/60i: fн 33.75 kHz; fv 60 Hz,
		1080/50i: fн 28.13 kHz; fv 50 Hz, 1080/25p: fн 28.13 kHz; fv 25 Hz,
		1080/24p: fн 27.00 kHz; fv 24 Hz, 1080/24sF: fн 27.00 kHz; fv 48 Hz,
		1080/30p: fн 33.75 kHz; fv 30 Hz, 1080/60p: fн 67.50 kHz; fv 60 Hz,
		1080/50р: fн 56.25 kHz; fv 50 Hz
	S-Video/Video:	Horizontal: 15.75/15.63 kHz, Vertical: 50/60 Hz,
		(NTSC, NTSC4.43, PAL, PAL60, PAL-N, PAL-M, SECAM)
Optical axis shift*3:	Vertical:	$\pm 70\%$ ($\pm 60\%$ with the ET-D75LE6) from center of screen, powered
	Horizontal:	±30% (±20% with the ET-D75LE6) from center of screen, powered
Keystone correction rar	nge:	Vertical: $\pm 40^{\circ}$ ($\pm 22^{\circ}$ with the ET-D75LE5, $\pm 28^{\circ}$ wih the ET-D75LE6)
Installation:		Ceiling/floor, front/rear
Terminals:	DVI-D IN:	DVI-D 24-pin x 1, DVI 1.0 compliant, compatible with HDCP, compati-
		ble with single link only,
		480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p
		VGA (640 x 480)-WUXGA*4 (1,920 x 1,200), compatible with non-
		interlaced signals only, dot clock: 25–162 MHz
	RGB1 IN:	BNC x 5
	R, G, B:	G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms,
	н, а, в.	B, R: 0.7 Vp-p, 75 ohms
		HD, VD, SYNC: 1.4–5.0 Vp-p, positive/negative automatic
	Y, Рв, Рг	Y: 1.0 p-p, 75 ohms (incl. sync signal), PB/PR: 0.7 Vp-p, 75 ohms
	.,,	0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms
		NOTE: HD/SYNC, and VD terminals do not accept 3-value direct sync signals.
		······································

3-Chip DLP™ Projector PT-DW100 RGB2 IN: D-sub HD 15-pin x 1 R, G, B: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms HD, VD, SYNC: TTL, high impedance, positive/negative automatic

VD: 1.4-5.0 Vp-p, positive/negative automatic, 75 ohms Y: 1.0 p-p, 75 ohms (incl. sync signal), PB/PR: 0.7 Vp-p, 75 ohms Y, Pb, Pr NOTE: HD/SYNC, and VD terminals do not accept 3-value direct sync signals. VIDEO IN: BNC x 1, 1.0 Vp-p, 75 ohms BNC x 1, 1.0 Vp-p, active through VIDEO OUT: S-VIDEO IN: Mini DIN 4-pin x 1 Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms (S1 signal compatible) LAN: RJ-45 x 1, 10Base-T/100Base-TX, compatible with PJLink[™] (class 1) SERIAL IN*5: D-sub 9-pin (female) x 2, for external control (RS-232C/RS-422 compliant) SERIAL OUT*5: D-sub 9-pin (male) x 1, for link control (RS-422 compliant) REMOTE 1 IN: M3 jack x 1 for wired remote control REMOTE 1 OUT: M3 jack x 1 for link control REMOTE 2 IN: D-sub 9-pin x 1 for external control (parallel) Optional board slot*6: With ET-MD77SD1 installed: BNC x 1, SD-SDI signal (YCBCR 4:2:2 10-bit): SERIAL IN: SMPTE 259M compliant: 480i, 576i SERIAL OUT: BNC x 1, active through With ET-MD77SD3 installed: SERIAL IN: BNC x 1 SD-SDI signal (YCBCR 4:2:2 10-bit): SMPTE 259M compliant: 480i, 576i Single-link HD-SDI signal (YPBPR 4:2:2 10-bit): SMPTE 292M compliant: 720/50p, 720/60p, 1035/60i, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p SERIAL OUT: BNC x 1, active through With ET-MD100SD4 installed: Link A/Link B IN: BNC x 1 for each SD-SDI signal (YCBCR 4:2:2 10-bit): SMPTE 259M compliant: 480i, 576i Single-link HD-SDI signal (YPBPR 4:2:2 10-bit): SMPTE 292M compiant: 720/50p, 720/60p, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p Dual-link HD-SDI signal (RGB 4:4:4 12-bit/10-bit): SMPTE 372M compiant: 1920 x 1080/50i, 1920 x 1080/60i, 1920 x 1080/25p, 1920 x 1080/24p, 1920 x 1080/24sF, 1920 x 1080/30p Dual-link HD-SDI signal (X'Y'Z' 4:4:4 12-bit): 2048 x 1080/24p, 2048 x 1080/24sF With ET-MD77DV installed: DVI-D IN: DVI-D 24-pin x 1, DVI 1.0 compliant, compatible with HDCP, compatible with single link only, 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p VGA (640 x 480)-WUXGA*4 (1,920 x 1,200), compatible with noninterlaced signals only, dot clock: 25-162 MHz Power cord: 3 m/9.8' Cabinet material: Moulded plastic Dimensions (W x H x D): 578 x 320 x 643 mm (22-3/4" x 12-19/32" x 25-5/16") (without lens) Weight*7: Approx. 35 kg (77.2 lbs) (without lens)

Operating temperature*8: Operating humidity:

Remote Control Unit

Number of functions: Power supply: Operation range*9: Dimensions (W x H x D): Weight:

Supplied Accessories

PT-**DW100**

0°C-45°C (32°F-113°F) 10%-80% (no condensation)

35 keys, 39 functions 3 V DC (AA battery x 2) Approx. 30 m (98.4') when operated from directly signal receptor 51 x 22.7 x 176 mm (2" x 7/8" x 6-15/16") 134 g (4.7 oz) (including batteries)

Power cord Wireless/wired remote control unit Batteries for remote control (x 2) Eye bolts (x 4) Wire rope

Optional Accessories

Zoom lens (1.0–1.2:1): Zoom lens (1.5–2.0:1): Zoom lens (2.1–3.1:1): Zoom lens (3.1–5.2:1): Zoom lens (5.2–8.2:1): Zoom lens (8.2–15.4:1): Fixed-focus lens (0.8:1): SD-SDI board: HD/SD-SDI board: Dual link HD-SDI board: DVI-D board: Replacement lamp unit

Ceiling mount bracket for high ceilings Ceiling mount bracket for low ceilings Frame Carrying handle Smoke cut filter ET-D75LE6 ET-D75LE1 ET-D75LE2 ET-D75LE3 ET-D75LE4 ET-D75LE8 ET-D75LE5 ET-MD77SD1 ET-MD77SD3 ET-MD100SD4 ET-MD77DV ET-LAD12K (one unit) ET-LAD12KF (a set of four lamps) ET-PKD100H ET-PKD100S ET-PFD100 ET-HAD100 ET-SFD100

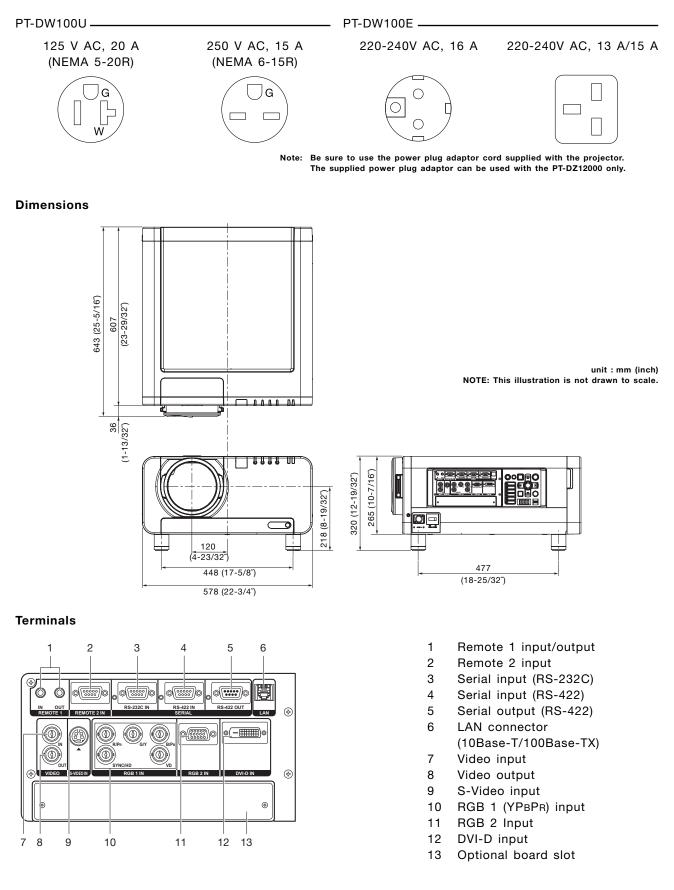
Weights and dimensions shown are approximate. Specifications subject to change without notice.

- *1 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
- *2 Smooth image reproduction may not be possible when a motion video signal with a vertical frequency other than 50 or 60 Hz is input.
- *3 Shift range is limited during simultaneous horizontal and vertical shifting.
- *4 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).
- *5 Contact your dealers for details when the control using RS-232C or RS-422 is required.
- *6 The LAN terminal on the optional board will be inactivated after installation. Use the LAN terminal on the main unit.
- *7 Average value. May differ depending on models.
- *8 The operating temperature range is 0°C (32°F) to 40°C (104°F) when used in High-Altitude mode (1,400 m [4,593 feet] to 2,700 m [8,858 feet]). Also, if the ambient temperature exceeds 40°C (104°F) (35°C [95°F] in High-Altitude mode) when using all four lamps, the light output may be reduced approximately 30% to protect the projector.
- *9 Operation range differs depending on environments.



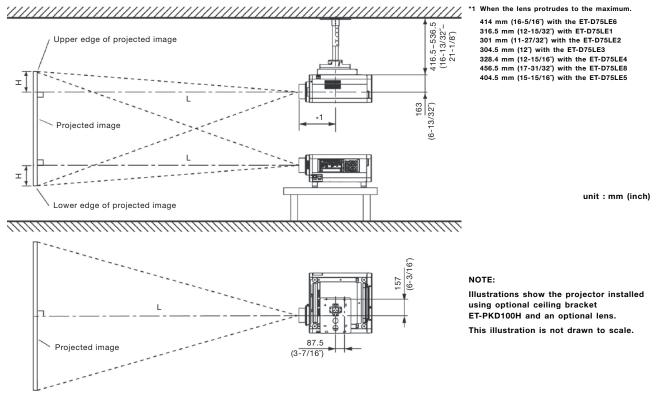
PT-**DW100**

Shape of the plug receptacle



Panasonic

Standard setting-up positions



Projection distance (screen aspect ratio 16:9)

Distance to screen								Height from the edge of screen to center of lens (H)							
Zoom Fixed-focus															
L ens (Throw ratio Screen	* Zoon	75LE6 n lens -1.2:1)	Zoon	75LE1 n lens - 2.0:1)	Zoon	75LE2 n lens -3.1:1)	ET-D Zoom (3.1–		Zoon	75LE4 n lens •8.2:1)	Zoon	75LE8 n lens 15.4:1)	ET-D75LE5 Fixed-focus lens (0.8:1)		n lenses
size (inch, diagonal)	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.		Zoom lenses except ET-D75LE6	ET-D75LE
70	1,560	1,865	2,322	3,103	3,137	4,719	4,730	7,937	7,943	12,713	12,430	23,652	1,151	-174 – 1,046	-87- 95
	<i>5.1</i>	<i>6.1</i>	7.6	<i>10.2</i>	<i>10.3</i>	<i>15.5</i>	<i>15.5</i>	27.9	<i>27.</i> 9	<i>41.7</i>	<i>40.8</i>	77.6	3.8	-0.57 – 3.43	-0.29- 3.1
80	1,791	2,142	2,664	3,561	3,597	5,408	5,419	9,088	9,094	14,544	14,261	27,083	1,328	-199 – 1,195	-100-1,09
	5.9	7.0	8.7	<i>11.7</i>	<i>11.8</i>	<i>17.7</i>	<i>17.</i> 8	<i>31.9</i>	<i>31.9</i>	<i>47.7</i>	<i>4</i> 6.8	88.9	<i>4.4</i>	-0.65 – 3.92	-0.33- 3.6
90	2,022	2,419	3,007	4,019	4,056	6,098	6,108	10,240	10,246	16,375	16,092	30,513	1,504	-224 – 1,345	-112-1,23
	6.6	<i>7.</i> 9	9.9	<i>13.2</i>	<i>13.3</i>	<i>20.0</i>	<i>20.0</i>	35.9	35.9	<i>53.7</i>	52.8	<i>100.1</i>	<i>4</i> .9	-0.74 – 4.41	-0.37- 4.0
100	2,253	2,696	3,349	4,476	4,516	6,787	6,798	11,391	11,397	18,206	17,923	33,943	1,681	-249 – 1,494	-125–1,37
	7.4	8.8	<i>11.0</i>	<i>14.7</i>	<i>14.8</i>	22.3	<i>22.3</i>	<i>39.9</i>	<i>39.9</i>	59.7	58.8	<i>111.4</i>	5.5	-0.82 – 4.90	-0.41– 4.4
120	2,715	3,250	4,035	5,392	5,435	8,166	8,176	13,693	13,699	21,867	21,585	40,804	2,033	-299 – 1,793	-149-1,64
	8.9	<i>10.7</i>	<i>13.2</i>	<i>17.7</i>	17.8	<i>26.8</i>	26.8	<i>47.9</i>	<i>47.9</i>	<i>71.7</i>	70.8	<i>133.9</i>	6.7	-0.98 – 5.88	-0.49- 5.3
150	3,408	4,081	5,062	6,765	6,814	10,234	10,244	17,147	17,153	27,359	27,077	51,095	2,563	-374 – 2,241	-187-2,05
	<i>11.2</i>	<i>13.4</i>	16.6	<i>22.2</i>	<i>22.4</i>	33.6	33.6	59.9	59.9	89.8	88.8	<i>167.6</i>	<i>8.4</i>	-1.23 – 7.35	-0.61- 6.7
200	4,563	5,466	6,775	9,053	9,112	13,680	13,691	22,904	22,909	36,512	36,232	68,246	3,445	-498 – 2,989	-249-2,74
	15.0	<i>17.9</i>	22.2	<i>29.7</i>	<i>29.9</i>	<i>44.9</i>	<i>44.9</i>	79.9	79.9	<i>119.8</i>	118.9	223.9	<i>11.3</i>	-1.63 – 9.81	-0.82- 8.9
250	5,718	6,851	8,488	11,341	11,409	17,127	17,137	28,660	28,666	45,666	45,386	85,398	4,327	-623 – 3,736	-311-3,42
	<i>18.8</i>	22.5	<i>27.8</i>	<i>37.2</i>	<i>37.4</i>	56.2	56.2	99.9	99.9	149.8	148.9	<i>280.2</i>	14.2	-2.04 – 12.26	-1.02-11.2
300	6,873	8,236	10,201	13,630	13,707	20,574	20,584	34,416	34,422	54,819	54,541	102,549	5,209	-747 – 4,483	-374-4,10
	22.6	<i>27.0</i>	33.5	<i>44.7</i>	<i>4</i> 5.0	67.5	67.5	<i>119.9</i>	119.9	<i>179.9</i>	178.9	<i>336.4</i>	<i>17.1</i>	-2.45 – 14.71	-1.23-13.4
400	9,183	11,006	13,626	18,206	18,303	27,467	27,477	45,929	45,934	73,126	72,850	136,852	-	-996 – 5,977	-498-5,47
	<i>30.1</i>	<i>36.1</i>	<i>44.7</i>	59.7	60.0	90.1	90.1	159.9	159.9	239.9	239.0	449.0	-	-3.27 – 19.61	-1.63-17.9
500	11,493	13,776	17,052	22,783	22,898	34,360	34,371	57,441	57,447	91,433	91,159	171,155	-	-1,245 – 7,472	-623-6,84
	<i>37.7</i>	<i>45.2</i>	55.9	74.7	75.1	<i>112.7</i>	<i>112.</i> 8	<i>199.9</i>	199.9	<i>300.0</i>	<i>299.1</i>	561.5	-	-4.09 – 24.51	-2.04-22.4
600	13,803 <i>45.3</i>	16,546 <i>54.3</i>	20,477 67.2	27,360 89.8	27,494 90.2	41,254 <i>135.3</i>	41,264 <i>135.4</i>	68,954 239.9	68,960 239.9	109,740 <i>360.0</i>	109,468 <i>359.1</i>	205,458 674.1	-	-1,494 - 8,966 -4.90 - 29.42	-747-8,21 -2.45-26.9

* The throw ratio is an approximate value calculated by dividing the screen width by the projection distance. (Throw ratio) = (screen width) / (projection distance)

• The figures in the above table may vary by approximately $\pm 5\%$ depending on the projection lens that is used.

• When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.

• At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.

feet

PT-DW100

Calculation of the projection distance

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

16:9 aspect ratio	ET-D75LE6	minimum maximum	L (mm) = (diagonal screen size in inches) x 23.1 - 56.6 L (mm) = (diagonal screen size in inches) x 27.7 - 73.6
	ET-D75LE1	minimum maximum	L (mm) = (diagonal screen size in inches) x 34.3 - 76.0 L (mm) = (diagonal screen size in inches) x 45.8 - 100.4
	ET-D75LE2	minimum maximum	L (mm) = (diagonal screen size in inches) x 46.0 - 79.5 L (mm) = (diagonal screen size in inches) x 68.9 - 106.4
	ET-D75LE3	minimum maximum	L (mm) = (diagonal screen size in inches) x 68.9 - 95.8 L (mm) = (diagonal screen size in inches) x 115.1 - 121.6
	ET-D75LE4	minimum maximum	L (mm) = (diagonal screen size in inches) x 115.1 - 115.8 L (mm) = (diagonal screen size in inches) x 183.1 - 101.3
	ET-D75LE8	minimum maximum	L (mm) = (diagonal screen size in inches) x 183.1 - 386.2 L (mm) = (diagonal screen size in inches) x 343.0 - 359.8
	ET-D75LE5	(fixed focus)	L (mm) = (diagonal screen size in inches) x 17.6 - 83.5

• The figures in the above table may vary by approximately ±5% depending on the projection lens that is used.

• When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.

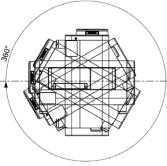
• At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.

Installable Angle

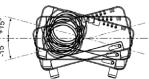
Install the projector at an angle within the range shown below.

• Vertical direction

The projector may be installed at a vertical angle of 360°.



• Horizontal direction The projector may be installed at a horizontal angle of $\pm 15^{\circ}$.

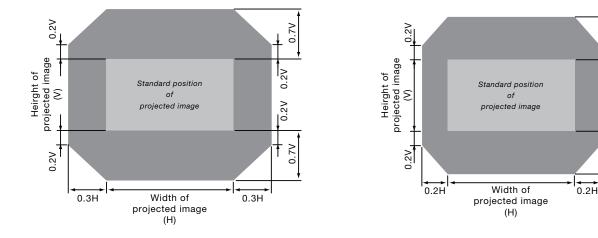


Shift range

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

ET-D75LE1/D75LE2/D75LE3/D75LE4/D75LE5/D75LE8





0.6V

0.6V

0.2V

0.2V

List of compatible signals

This projector supports RGB signals with horizontal frequencies of 15 to 100 kHz, vertical frequencies of 24 to 120 Hz and dot clock frequencies of 20 MHz to 162 MHz.

NOTE: The native resolution of this projector is 1,366 x 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 H	V	Dot clock frequency (MHz)	Format	Plug and Play compatil RGB 2 DVI-D input input EDID1 E		
	, ,	(kHz)	(kHz)	. ,				1
NTSC/NTSC4.43/PAL-M/PAL60	720 x 480i	15.7	59.9	_	VIDE0/S-VIDE0	No	No	No
PAL/PAL-N/SECAM	720 x 576i	15.6	50.0	-	ND D (DOD			- N
480i	720 x 480i	15.7	59.9	13.5	YPBPR/RGB	No	No	No
576i	720 x 576i	15.6	50.0	13.5				
480p	720 x 483	31.5	59.9	27.0	YPBPR/RGB/DVI	No	Yes	No
576p	720 x 576	31.3	50.0	27.0	_			
720/60p	1,280 x 720	45.0	60.0	74.3	_			
720/50p		37.5	50.0	74.3	_			
1080/60i	1,920 x 1,080i	33.8	60.0	74.3	_			
1080/50i		28.1	50.0	74.3	_			
1080/24p	1,920 x 1,080	27.0	24.0	74.3	_			
1080/24sF	1,920 x 1,080i	27.0	24.0	74.3			No	
1080/25p	1,920 x 1,080	28.1	50.0	74.3	-	No	Yes	No
1080/30p		33.8	60.0	74.3	_		No	
1080/60p		67.5	60.0	148.5	-	No	Yes	No
1080/50p		56.3	50.0	148.5	_			
VGA400	640 x 400	31.5	70.1	25.2	RGB/DVI		No	1
	0+0 X +00	37.9	85.1	31.5			110	
VGA480	640 x 480	37.9	59.9	25.2	RGB/DVI		Yes	
VGA480	040 X 400						No	
		35.0	66.7	30.2	_		1	N
		37.9	72.8	31.5	_	Yes	No	Yes
		37.5	75.0	31.5	_			
		43.3	85.0	36.0	_		No	
SVGA	800 x 600	35.2	56.3	36.0	_	Yes	No	Yes
		37.9	60.3	40.0	_			
		48.1	72.2	50.0				
		46.9	75.0	49.5	_			
		53.7	85.1	56.3	_		No	
MAC16	832 x 624	49.7	74.6	57.3	-	Yes	No	Yes
XGA	1,024 x 768	39.6	50.0	51.9	-	-	No	1
	.,	48.4	60.0	65.0	_	Yes	No	Yes
		56.5	70.1	75.0	_	100		
		-		78.8	_			
		60.0	75.0		_		No	
		65.5	81.6	86.0	_		NO	
		68.7	85.0	94.5				
	1,024 x 768i	35.5	87.0	44.9	RGB	Yes	1	No
	1,024 x 768	80.0	100.0	105.0	RGB/DVI		No	
		96.7	120.0	130.0	_			
MXGA	1152 x 864	64.0	71.2	94.2	_			
		67.5	74.9	108.0	_			
		76.7	85.0	121.5	_			
MAC21	1152 x 870	68.7	75.1	100.0	_	Yes	No	Yes
1000 x 700	1,280 x 768	39.6	49.9	65.3			No	
1280 X 788				79.5	-			
1280 X 788		47.8	59.9	13.5				
	1,280 x 800				_			
	1,280 x 800	41.3	50.0	68.0	_			
1280 x 80		<u>41.3</u> 49.7	50.0 59.8	68.0 83.5	-			
1280 x 80 MSXGA	1,280 x 960	<u>41.3</u> 49.7 60.0	50.0 59.8 60.0	68.0 83.5 108.0	- - -			
1280 x 80 MSXGA		41.3 49.7 60.0 52.4	50.0 59.8 60.0 50.0	68.0 83.5 108.0 88.0	- - - -	Ves	No	Ver
1280 x 80 MSXGA	1,280 x 960	41.3 49.7 60.0 52.4 64.0	50.0 59.8 60.0 50.0 60.0	68.0 83.5 108.0 88.0 108.0	- - - - -	Yes	No	Yes
1280 x 80 MSXGA	1,280 x 960	41.3 49.7 60.0 52.4 64.0 72.3	50.0 59.8 60.0 50.0 60.0 66.3	68.0 83.5 108.0 88.0 108.0 125.0	- - - - -	Yes	No No	Yes
1280 x 80 MSXGA	1,280 x 960	41.3 49.7 60.0 52.4 64.0 72.3 78.2	50.0 59.8 60.0 50.0 60.0 66.3 72.0	68.0 83.5 108.0 88.0 108.0 125.0 135.1	- - - - -		No	
1280 x 80 MSXGA	1,280 x 960	41.3 49.7 60.0 52.4 64.0 72.3 78.2 80.0	50.0 59.8 60.0 50.0 60.0 66.3 72.0 75.0	68.0 83.5 108.0 88.0 108.0 125.0 135.1 135.0	- - - - -	Yes	No No	
1280 x 80 MSXGA SXGA	1,280 x 960 1,280 x 1,024	41.3 49.7 60.0 52.4 64.0 72.3 78.2 80.0 91.1	50.0 59.8 60.0 50.0 60.0 66.3 72.0 75.0 85.0	68.0 83.5 108.0 88.0 108.0 125.0 135.1 135.0 157.5	-	Yes	No No No	Yes
1280 x 768 1280 x 80 MSXGA SXGA SXGA+	1,280 x 960	41.3 49.7 60.0 52.4 64.0 72.3 78.2 80.0	50.0 59.8 60.0 50.0 60.0 66.3 72.0 75.0	68.0 83.5 108.0 88.0 108.0 125.0 135.1 135.0	-		No No	Yes
1280 x 80 MSXGA SXGA	1,280 x 960 1,280 x 1,024	41.3 49.7 60.0 52.4 64.0 72.3 78.2 80.0 91.1	50.0 59.8 60.0 50.0 60.0 66.3 72.0 75.0 85.0	68.0 83.5 108.0 88.0 108.0 125.0 135.1 135.0 157.5	- - - - - - - - -	Yes	No No No	Yes
1280 x 80 MSXGA SXGA	1,280 x 960 1,280 x 1,024	41.3 49.7 60.0 52.4 64.0 72.3 78.2 80.0 91.1 65.2	50.0 59.8 60.0 50.0 66.3 72.0 75.0 85.0 60.0	68.0 83.5 108.0 88.0 108.0 125.0 135.1 135.0 157.5 122.6	- - - - - - - - - -	Yes	No No No	Yes
1280 x 80 MSXGA SXGA	1,280 x 960 1,280 x 1,024	41.3 49.7 60.0 52.4 64.0 72.3 78.2 80.0 91.1 65.2 78.8 82.2	50.0 59.8 60.0 60.0 66.3 72.0 75.0 85.0 60.0 72.0 75.0	68.0 83.5 108.0 88.0 108.0 125.0 135.1 135.0 157.5 122.6 149.3 155.9	- - - - - - - - - - - -	Yes	No No No	Yes
1280 x 80 MSXGA SXGA SXGA+ WXGA+	1,280 x 960 1,280 x 1,024 1,400 x 1050 1,440 x 900	41.3 49.7 60.0 52.4 64.0 72.3 78.2 80.0 91.1 65.2 78.8 82.2 55.9	50.0 59.8 60.0 50.0 66.3 72.0 75.0 85.0 60.0 72.0 75.0 59.9	68.0 83.5 108.0 88.0 108.0 125.0 135.1 135.0 157.5 122.6 149.3 155.9 106.5	- - - - - - - - - - -	Yes	No No No No	Yes
1280 x 80 MSXGA SXGA SXGA+ WXGA+ UXGA	1,280 x 960 1,280 x 1,024 1,400 x 1050 1,440 x 900 1,600 x 1,200	41.3 49.7 60.0 52.4 64.0 72.3 78.2 80.0 91.1 65.2 78.8 82.2 55.9 75.0	50.0 59.8 60.0 50.0 66.3 72.0 75.0 85.0 60.0 72.0 75.0 59.9 60.0	68.0 83.5 108.0 88.0 108.0 125.0 135.1 135.0 157.5 122.6 149.3 155.9 106.5 162.0	- - - - - - - - - - - -	Yes	No No No No No	Yes
1280 x 80 MSXGA SXGA SXGA+	1,280 x 960 1,280 x 1,024 1,400 x 1050 1,440 x 900	41.3 49.7 60.0 52.4 64.0 72.3 78.2 80.0 91.1 65.2 78.8 82.2 55.9	50.0 59.8 60.0 50.0 66.3 72.0 75.0 85.0 60.0 72.0 75.0 59.9	68.0 83.5 108.0 88.0 108.0 125.0 135.1 135.0 157.5 122.6 149.3 155.9 106.5		Yes	No No No No	Yes Yes Yes

1. The "i" appearing after the resolution indicates an interlaced signal. Line flicker occurs when an interlaced signal is input. 2. WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).

Description

Serial connector

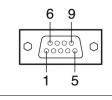
The serial connector complies with RS-232C. To control the projector from a personal computer, commands must be input through communication software, based on the format and satisfying the communication conditions shown below.

Description

Pin assignments and signal names

No

Signal name



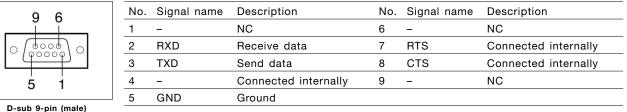
INC	5. Signal name	Description	NO.	Signal hame	Description
1	-	NC	6	-	NC
2	TXD	Send data	7	CTS	Connected internally
3	RXD	Receive data	8	RTS	Connected internally
4	-	Connected internally	9	-	NC
5	GND	Ground			

No

Signal name

D-sub 9-pin (female) Serial input

Pin assignments and signal names



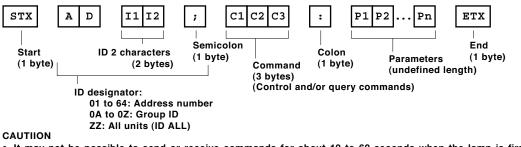
Serial output

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.



- 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	NC NC	1
	2		2
	3		- 3
	4	NC NC	4
	5		- 5
	6	NC NC	6
	7		7
Ц	8]	8
	9	NC NC	9

Control commands

Command : Parameter	Function		Callback
PON	POWER (STANDBY)	Standby power on	PON
POF		Standby power off	POF
IIS:RG1	INPUT SELECT	RGB 1	IIS:RG1
IIS:RG2		RGB 2	IIS:RG2
IIS:VID		Video	IIS:VID
IIS:SVD		S-Video	IIS:SVD
IIS:DVI		DVI	IIS:DVI
IIS:AUX		AUX	IIS:AUX
LPM:0	LAMP SELECT	Quad (four lamps)	LPM:0
LPM:1		Lamp 1 + 4	LPM:1
LPM:2		Lamp 2 + 3	LPM:2
LPM:3		Dual (two lamps)	LPM:3
LPM:4		Lamp 1 + 2 + 3	LPM:4
LPM:5		Lamp 1 + 2 + 4	LPM:5
LPM:6	_	Lamp 1 + 3 + 4	LPM:6
LPM:7		Lamp 2 + 3 + 4	LPM:7
LPM:8		Triple (three lamps)	LPM:8
LPM:9		Lamp 1	LPM:9
LPM:10		Lamp 2	LPM:10
LPM:11		Lamp 3	LPM:11
LPM:12		Lamp 4	LPM:12
LPM:13		Single lamp	LPM:13
OSH:1	SHUTTER	Shutter on	OSH:1
OSH:0		Shutter off	OSH:0
OPP:0	P IN P SELECT	P in P off	OPP:0
OPP:1		User 1	OPP:1
OPP:2		User 2	OPP:2
OPP:3		User 3	OPP:3
OAS	AUTO SETUP		OAS
VPM:NAT	PICTURE MODE	Natural	VPM:NAT
VPM:STD	_	Standard	VPM:STD
VPM:DYN		Dynamic	VPM:DYN
VPM:CIN	_	Cinema	VPM:CIN
VPM:GRA		Graphic	VPM:GRA
OTE:0	COLOR TEMPERATURE	Low	OTE:0
OTE:1	_	Middle	OTE:1
OTE:2		High	OTE:2
OTE:4		User 1	OTE:4
OTE:9		User 2	OTE:9
OTE:10		Default	OTE:10
TSD:y1y2y3y4m1m2d1d2w	DATE	Date setting	TSD:y1y2y3y4m1m2d1d2w
TST:h1h2m1m2s1s2	TIME	Time setting	TST:h1h2m1m2s1s2
005:1	ON SCREEN	On-screen display on	005:1
005:0		On-screen display off	005:0

PT-**DW100**

PT-**DW100**

Status asking commands

Command: Parameter	Function	Callback	Description
QPW	Main power status	001	On
		000	Off
QSH	Shutter function status	1	On
		0	Off
QIN	Input signal status	RG1	RGB 1
		RG2	RGB 2
		VID	Video
		SVD	S-Video
		DVI	DVI
		AUX	AUX
QOS	On-screen display status	1	On
		0	Off
QST	Projector run time	00000-99999	00000h-99999h
Q\$L:1	Lamp 1 run time	0000-9999	0000h-9999h
Q\$L:2	Lamp 2 run time	0000-9999	0000h-9999h
Q\$L:3	Lamp 3 run time	0000-9999	0000h-9999h
Q\$L:4	Lamp 4 run time	0000-9999	0000h-9999h
QSL	Lamp operation mode status	0	Quad (four lamps)
		1	Lamp 1 + 4
		2	Lamp 2 + 3
		3	Dual (two lamps)
		4	Lamp 1 + 2 + 3
		5	Lamp 1 + 2 + 4
		6	Lamp 1 + 3 + 4
		7	Lamp $2 + 3 + 4$
		8	Triple (three lamps)
		9	Lamp 1
		10	Lamp 2
		11	Lamp 3
		12	Lamp 4
		13	Single lamp
QIB	Optional board slot status	MD77SD1	ET-MD77SD1
		MD77SD3	ET-MD77SD3
		MD100SD4	ET-MD100SD4
		MD77DV	ET-MD77DV
		NONE	Uninstalled
		UNKNOWN	Unknown
QPP	P in P status	NOT SUPPORT	Not supported
		0	Off
		1	User 1
		2	User 2
QGD	Date setting status	3	User 3
QGT	Time setting status	y1y2y3y4m1m2d1d2w	yyyymmdd (day of week) ^{(*}
	-	h1h2m1m2s1s2	hhmmss (*2)

*1 Day of week: Monday = 1, Tuesday = 2, ... Sunday = 7

*2 Set the date and time to UTC (universal time coordinated).

NOTE: If a wrong command is received, the projector will send an ER401 or ER402 command to the computer.

Command example

To set the on-screen display off, send the command as shown below.

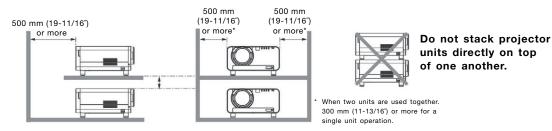


NOTE: When sending commands without parameters, a colon (:) is not necessary.

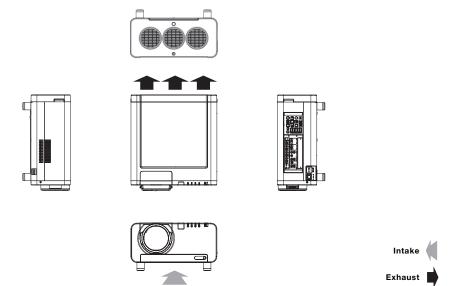
Notes on Projector Placement and Operation

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 500 mm (19-11/16") or more around the projector's exhaust openings.
- 3. Do not stack projector units directly on top of one another for the purpose of multiple (stacked) projection. When stacking projector units, be sure to provide the amount of space indicated below between them. These space requirements also apply to installations where only one projector unit is operating at one time and the other unit is used as a backup.
- 4. 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 40°C/104°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

- 1. If the projector is to be operated continuously 24 hours, use the lamp relay mode. The projector cannot be operated continuously 24 hours in quad-lamp mode. Allow a minimum of two hours per day of non-operation time if the projector is to be operated continuously more than 22 hours.
- 2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.

Weights and dimensions shown are approximate. Specifications are subject to change without notice. This product may be subject to export control regulations. DLP and the DLP logo are trademarks of Texas Instruments. The PJLink is an application trademark in Japan, the United States, and other countries and regions or registered trademarks. All other trademarks are the property of their respective trademark owners.