Panasonic

SPEC FILE

Product Number: PT-DZ21K2

Product Name: 3-Chip DLP™ Projector

PT-**DZ21K2**

Specifications

Main unit

DLP™ chip

Power supply 200-240 V AC, 12 A, 50/60 Hz (3-wire single-phase)

Power consumption 2,060 W (2,100 VA) (0.3 W with STANDBY MODE set to ECO.*1 9 W with

STANDBY MODE set to NORMAL.),

max. 7,031 BTU (without light output: 6,758 BTU)
Panel size 24.4 mm (0.96 inches) diagonal (16:10 aspect ratio)

Display method DLPTM chip \times 3 (R, G, B), DLPTM projection system

Pixels $2,304,000 (1,920 \times 1,200) \times 3$, total of 6,912,000 pixels

Lens Optional powered zoom/focus lenses
Lamp 432 W UHM lamps (x 4) (four lamp system)

Screen size 1.78-25.4 m (70-1,000 inches) (1.78-15.24 m (70-600 inches) with

the ET-D75LE8), 16:10 aspect ratio

Brightness*2 20,000 lumens (four lamp)

Center-to-corner uniformity*2 90%

Contrast*2 10,000:1 (full on/full off, in dynamic iris 3 mode)

Resolution 1,920 \times 1,200 pixels (Input signals that exceed this resolution will be

converted to 1,920 × 1,200 pixels.)

Scanning frequency SDI Dual-link HD-SDI signal (RGB 4:4:4 12-bit/10-bit):

SMPTE ST 372 compliant: 1080/50i, 1080/60i, 1080/25p, 1080/24p,

1080/24sF, 1080/30p, 2048 x 1080/24p, 2048/1080/24sF

Dual-link HD-SDI signal (X´Y´Z´ 4:4:4 12-bit):

SMPTE ST 372 compliant: 2048 × 1080/24p, 2048 × 1080/24sF,

3G-SDI signal (RGB 4:4:4 12-bit/10-bit):

SMPTE ST 424 compliant: 1080/50i, 1080/60i, 1080/25p, 1080/24p,

1080/24sF, 1080/30p,

3G-SDI signal (YPBPR 4:2:2 10-bit):

SMPTE ST 424 compliant: 1080/50p, 1080/60p,

HD-SDI signal (YPBPR 4:2:2 10-bit):

SMPTE ST 292 compliant: 720/50p, 720/60p, 1035/60i, 1080/50i,

1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p,

SD-SDI signal (YCBCR 4:2:2 10-bit):

SMPTE ST 259 compliant: 480i, 576i

HDMI/DVI-D/ Horizontal: 15-100 kHz, vertical: 24-120 Hz,

DIGITAL LINK dot clock: 25-162 MHz

RGB Horizontal: 15-100 kHz, vertical: 24-120 Hz,

dot clock: 162 MHz or less

YPBPR (YCBCR) 480i (525i): fh 15.73 kHz; fv 59.94 Hz,

fH 15.63 kHz; fv 50 Hz, 576i (625i): fH 31.47 kHz: fv 59.94 Hz. 480p (525p): 576p (625p): fh 31.25 kHz; fv 50 Hz, 720 (750)/60p: fH 45.00 kHz; fv 60 Hz, 720 (750)/50p: fh 37.50 kHz; fv 50 Hz, 1035/60i: fH 33.75 kHz; fv 60 Hz, 1080 (1125)/60i: fH 33.75 kHz; fv 60 Hz, 1080 (1125)/50i: fH 28.13 kHz; fv 50 Hz, 1080/25p: fH 28.13 kHz; fv 25 Hz, fH 27.00 kHz; fv 24 Hz, 1080/24p:

Video/S-Video fh: 15.73 kHz, fv: 59.94 Hz [NTSC/NTSC4.43/PAL-M/PAL60]

fh: 15.63 kHz, fv: 50 Hz [PAL/PAL-N/SECAM]

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Optical axis shift Vertical ±55% (±44% with the ET-D75LE6. +73—+78
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from center of screen, powered

Horizontal $\pm 20\%$ ($\pm 15\%$ with the ET-D75LE6, $\pm 6\%$ with the ET-D75LE90)

from center of screen, powered

NOTE: Optical axis shift function cannot be operated when used with the

ET-D75LE50.

Keystone correction range Vertical ±40°

(vertical $\pm 22^\circ$ and horizontal $\pm 15^\circ$ with the ET-D75LE50, vertical $\pm 28^\circ$ and horizontal $\pm 15^\circ$ with the ET-D75LE6, vertical $\pm 5^\circ$ and horizontal $\pm 15^\circ$ with the ET-D75LE90)

Keystone correction range when using the

optional upgrade kit ET-UK20*3

Vertical ±45°, horizontal ±40°

(vertical ±40° and horizontal ±40° with the ET-D75LE1/2/10/20,

vertical $\pm 28^{\circ}$ and horizontal $\pm 15^{\circ}$ with the ET-D75LE6, vertical $\pm 22^{\circ}$ and horizontal $\pm 15^{\circ}$ with the ET-D75LE5/50)

Curved correction range Vertical ±20°, horizontal ±15°

(vertical $\pm 8^{\circ}$ and horizontal $\pm 8^{\circ}$ with the ET-D75LE5/50, vertical $\pm 10^{\circ}$ and horizontal $\pm 10^{\circ}$ with the ET-D75LE6)

Installation Ceiling/floor, front/rear

Terminals SDI IN 1 BNC \times 1,

Dual-link 3G-SDI signal: SMPTE S T 425 compliant (Link 1) Dual-link HD-SDI signal: SMPTE ST 372 compliant (Link-A)

3G-SDI signal: SMPTE ST 424 compliant HD-SDI signal: SMPTE ST 292 compliant SD-SDI signal: SMPTE ST 259 compliant

SDI IN 2 BNC \times 1,

Dual-link 3G-SDI signal: SMPTE ST 425 compliant (Link 2)

Dual-link HD-SDI signal: SMPTE ST 372 compliant (Link-B)

3G-SDI signal: SMPTE ST 424 compliant HD-SDI signal: SMPTE ST 292 compliant SD-SDI signal: SMPTE ST 259 compliant

HDMI IN HDMI 19-pin \times 1, Deep Color, compatible with HDCP DVI-D IN DVI-D 24-pin \times 1, DVI 1.0 compliant, HDCP compatible,

for single link only

DIGITAL LINK/LAN RJ-45 Network connection / digital link connection (video/network/serial

control) compliant with PJLink (class1) ,100base-tx, Art-Net compatible

Deep Color, compatible with HDCP

RGB 1 IN BNC × 5

3D SYNC 2 OUT

R, G, B R: 0.7 Vp-p, 75 ohms,

G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms,

B: 0.7 Vp-p, 75 ohms

HD, VD/SYNC: TTL, high impedance, positive/negative automatic NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals.

Y, PB, PR (Y, CB, CR) Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms S-Video signal Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms

RGB 2 IN D-sub HD 15-pin (female) × 1

R, G, B R: 0.7 Vp-p, 75 ohms,

G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms,

B: 0.7 Vp-p, 75 ohms

HD, VD/SYNC: TTL, high impedance, positive/negative automatic NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals.

Y, PB, PR (Y, CB, CR) Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms

3D SYNC 1 IN/OUT BNC \times 1, 1.0 Vp-p, 75 ohms

Input: TTL, high impedance. Output: TTL, max. 10 mA BNC \times 1, 1.0 Vp-p, 75 ohms, TTL, max. 10 mA

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

SERIAL OUT D-sub 9-pin (male) \times 1 for link control REMOTE 1 IN M3 jack \times 1 for wired remote control

REMOTE 1 OUT $\,$ M3 jack \times 1 for link control

REMOTE 2 IN D-sub 9-pin (female) x 1 for external control (parallel)

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Power cord length 3.0 m (9 ft 10 in)
Cabinet materials Molded plastic

Dimensions (W \times H \times D): 620 \times 291*4 \times 800*5 mm

 $(24-7/16 \times 11-15/32^{*4} \times 31-1/2^{*5} \text{ inches})$ (without lens)

Weight*6 Approx. 41 kg (90.4 lbs) (without lens)

Operation noise*2 46 dB (quad lamp operation) Operating temperature $0^{\circ}-45^{\circ}\text{C} (32^{\circ}-113^{\circ}\text{F})^{*7}$

Operating humidity 10%-80% (no condensation)

Remote control unit

Power supply 3 V DC (AA/R6 type battery \times 2)

Operation range*8 Approx. 30 m (98 ft 5 in) when operated from directly in front of the

signal receptor

Dimensions (W × H × D) $47.5 \times 181.5 \times 27.5 \text{ mm} (1-7/8 \times 7-5/32 \times 1-3/32 \text{ inches})$

Weight Approx. 150 g (5.3 oz) (including batteries)

Supplied accessories

Power cord with security lock (x 1)
Wireless/wired remote control unit (x 1)
Batteries for remote control (AA/R6 type x 2)

Software CD-ROM (Logo Transfer Software, Multi Projector Monitoring

& Control Software) (x 1)

Optional accessories

ET-D75LE6 Zoom lens (0.9-1.1:1) ET-D75LE10 Zoom lens (1.3-1.7:1) ET-D75LE20 Zoom lens (1.7-2.4:1) Zoom lens (2.4-4.7:1) ET-D75LE30 ET-D75LE40 Zoom lens (4.6-7.4:1) Zoom lens (7.3-13.8:1) ET-D75LE8 Fixed-focus lens (0.7:1) FT-D751 F50 Fixed-focus lens (0.36:1) FT-D751 F90 Lens motor cover ET-D75MC1

Ceiling mount bracket ET-PKD520H (for high ceilings)

ET-PKD520S (for low ceilings)

Projector mount bracket ET-PKD520B
Frame ET-PFD510
Smoke cut filter ET-SFR510
Upgrade kit ET-UK20

Auto sreen adjustment upgrade kit ET-CUK10 (except in the United States)

Replacement lamp unit ET-LAD520 (one bulb)

ET-LAD520F (a set of four bulbs)

Replacement lamp unit for portrait mode ET-LAD520P (one bulb)

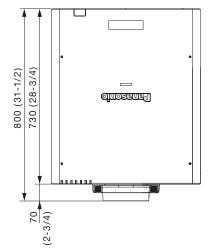
ET-LAD520PF (a set of four bulbs)

Replacement filter unit ET-EMF510

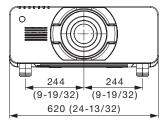
Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice.

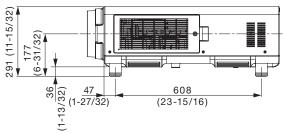
- *1 When the standby mode is set to eco, network functions such as power on over the LAN network will not operate, and the serial output terminal cannot be used. Also, only certain commands can be received for external control using the serial terminal.
- *2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
- $\star 3$ Up to a total of $\pm 55^\circ$ during simultaneous horizontal and vertical correction.
- *4 With legs at shortest position.
- *5 Excluding the optional lens.
- *6 Average value (excluding the optional lens). May differ depending on models.
- *7 The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when the FAN CONTROL is set to HIGH ALTITUDE MODE (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level). When the projector is used with the ET-SFR510 Smoke Cut Filter, the operating temperature range is 0 °C to 35 °C (32 °F to 95 °F), and the projector cannot be used in places at high altitude. The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when the ET-LAD520P/LAD520PF lamp is mounted and the projector is used in portrait configuration. The operating temperature range is 0 °C to 35 °C (32 °F to 95 °F) when the FAN CONTROL is set to HIGH ALTITUDE MODE (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level). When the projector is used with the ET-SFR510 Smoke Cut Filter, the operating temperature range is 0 °C to 30 °C (32 °F to 86 °F).
- *8 Operation range differs depending on environments.

Dimensions

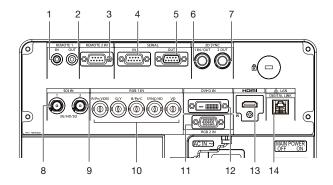


unit : mm (inch)
NOTE: This illustration is not drawn to scale.



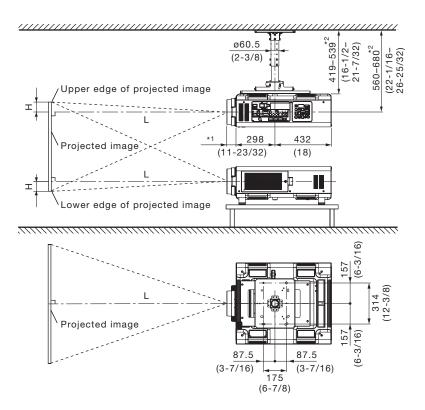


Terminals



- 1 Remote 1 input
- 2 Remote 1 output
- 3 Remote 2 input
- 4 Serial input
- 5 Serial output
- 6 3D sync 1 input/output
- 7 3D sync 2 output
- 8 SDI 1 input
- 9 SDI 2 input
- 10 RGB 1 Input
- 11 RGB 2 input
- 12 DVI-D input
- 13 HDMI input
- 14 LAN/DIGITAL LINK connector

Standard setting-up position



- *1 When the lens protrudes to the maximum.
 - 212 mm (8-11/32) with the ET-D75LE6 125 mm (4-29/32) with the ET-D75LE10 121 mm (4-3/4) with the ET-D75LE20 121 mm (4-3/4) with the ET-D75LE30 124 mm (4-7/8) with the ET-D75LE40 254 mm (10) with the ET-D75LE8 203 mm (8) with the ET-D75LE50
- *2 Adjustable in 40 mm (1-9/16) steps.

unit: mm (inch)

NOTE:

Illustrations show the projector installed using optional ceiling mount bracket ET-PKD520H/ET-PKD520B and an optional lens.This illustration is not drawn to scale.

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.

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Projection distance for 16:10 aspect ratio screen

(ET-D75LE6/D75LE10/D75LE20/D75LE30/D75LE40/D75LE8/D75LE50)

Unit: meters

Screen							Distance	to scree	en (L)						Height from			
(diagon	al)								Zoom					Fixed-focus	to cen	iter of ler	1S (H)	
			75LE6 n lens		'5LE10 n lens		75LE20 m lens		075LE30 om lens		075LE40 om lens		75LE8 n lens	ET-D75LE50 Fixed-focus	Except	lenses ET-D75	LE6	Fixed- focus
[m] /	[in]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	- lens	ET-D75LE6			lens
1.78/	70	1.35	1.62	1.90	2.46	2.46	3.58	3.56	6.94	6.87	11.05	10.78	20.56	1.01 -	-0.05 - 0.99	0.06 -	0.89	0.47
2.03/	80	1.56	1.86	2.19	2.83	2.83	4.11	4.08	7.96	7.88	12.65	12.38	23.55	1.16 -	-0.05 - 1.13	0.07 -	1.01	0.54
2.29/	90	1.76	2.10	2.47	3.20	3.19	4.64	4.61	8.98	8.88	14.25	13.97	26.54	1.32 -	-0.06 - 1.27	0.07 -	1.14	0.61
2.54/	100	1.96	2.34	2.76	3.56	3.55	5.17	5.13	9.99	9.88	15.85	15.57	29.53	1.47	-0.07 - 1.41	0.08 -	1.27	0.67
3.05/	120	2.36	2.82	3.32	4.30	4.28	6.22	6.18	12.03	11.89	19.05	18.76	35.51	1.78 -	-0.08 - 1.70	0.10 -	1.52	0.81
3.81/	150	2.96	3.55	4.18	5.40	5.37	7.81	7.75	15.08	14.90	23.85	23.54	44.47	2.24	-0.10 - 2.12	0.12 –	1.90	1.01
5.08/	200	3.97	4.75	5.60	7.24	7.19	10.45	10.38	20.17	19.93	31.86	31.52	59.41	3.01 -	-0.14 - 2.83	0.16 –	2.53	1.35
6.35/	250	4.98	5.96	7.02	9.07	9.01	13.09	13.00	25.25	24.95	39.86	39.49	74.36	3.78	-0.17 - 3.53	0.20 –	3.16	1.68
7.62/	300	5.99	7.17	8.44	10.91	10.82	15.73	15.62	30.34	29.97	47.87	47.47	89.30	4.56	-0.20 - 4.24	0.24 -	3.80	2.02
10.16/	400	8.00	9.58	11.28	14.58	14.46	21.01	20.86	40.51	40.01	63.87	63.42	119.19	6.10	-0.27 - 5.65	0.32 –	5.06	2.69
12.70/	500	10.01	11.99	14.12	18.25	18.09	26.29	26.11	50.68	50.05	79.88	79.37	149.08	7.64	-0.34 - 7.07	0.40 -	6.33	3.37
15.24/	600	12.03	14.40	16.96	21.93	21.73	31.58	31.35	60.85	60.09	95.89	95.32	178.96	9.18	-0.40 - 8.48	0.49 -	7.59	4.04
17.78/	700	14.04	16.82	19.80	25.60	25.36	36.86	36.60	71.02	70.13	111.90	111.27	_	10.72	-0.47 - 9.90	0.57 –	8.86	4.71
20.32/	800	16.06	19.23	22.64	29.27	29.00	42.14	41.84	81.19	80.17	127.91	127.23	_	12.27	-0.54 -11.31	0.65 -1	0.12	5.39
22.86/	900	18.07	21.64	25.48	32.94	32.63	47.42	47.09	91.36	90.21	143.92	143.12	_	13.81 -	-0.61 -12.72	0.73 -1	1.39	6.06
25.40/1	1000	20.08	24.06	28.33	36.61	36.27	52.70	52.33	101.53	100.25	159.93	159.13	_	15.35	-0.67 -14.14	0.81 -1	2.65	6.73

IJn	it:	fe	et

Screen							Distance	to scree	n (L)							the edge of s	
(diagon	al)								Zoom					Fixed-focus	to cen	iter of lens (H))
		ET-D7 Zoom			5LE10 n lens		75LE20 m lens		75LE30 om lens		75LE40 m lens	ET-D7 Zoom		ET-D75LE50 Fixed-focus	Zoom Except ET-D75LE6	lenses ET-D75LE6	Fixed- focus lens
[m] /	/ [in]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	- lelis	EI-D/SLEO		iens
1.78/	70	4.4	5.3	6.2	8.1	8.1	11.7	11.7	22.8	22.5	36.2	35.4	67.	5 3.3	-0.2 - 3.2	0.2 - 2.9	1.6
2.03/	80	5.1	6.1	7.2	9.3	9.3	13.5	13.4	26.1	25.8	41.5	40.6	77.3	3 3.8	-0.2 - 3.7	0.2 - 3.3	1.8
2.29/	90	5.8	6.9	8.1	10.5	10.5	15.2	15.1	29.5	29.1	46.7	45.8	87.	1 4.3	-0.2 - 4.2	0.2 - 3.7	2.0
2.54/	100	6.4	7.7	9.0	11.7	11.7	16.9	16.8	32.8	32.4	52.0	51.1	96.	9 4.8	-0.2 - 4.6	0.3 - 4.2	2.2
3.05/	120	7.7	9.3	10.9	14.1	14.0	20.4	20.3	39.5	39.0	62.5	61.5	116.	5 5.8	-0.3 - 5.6	0.3 - 5.0	2.7
3.81/	150	9.7	11.6	13.7	17.7	17.6	25.6	25.4	49.5	48.9	78.3	77.2	145.	9 7.3	-0.3 - 7.0	0.4 - 6.2	3.3
5.08/	200	13.0	15.6	18.4	23.7	23.6	34.3	34.0	66.2	65.4	104.5	103.4	194.	9 9.8	-0.4 - 9.3	0.5 - 8.3	4.4
6.35/	250	16.3	19.6	23.0	29.8	29.5	42.9	42.6	82.8	81.8	130.8	129.6	244.0	12.3	-0.6 - 11.6	0.7 - 10.4	5.5
7.62/	300	19.6	23.5	27.7	35.8	35.5	51.6	51.2	99.5	98.3	157.0	155.7	293.0	0 14.9	-0.7 – 13.9	0.8 – 12.5	6.6
10.16/	400	26.2	31.4	37.0	47.8	47.4	68.9	68.5	132.9	131.3	209.6	208.1	391.0	0 20.0	-0.9 – 18.6	1.1 – 16.6	8.8
12.70/	500	32.9	39.3	46.3	59.9	59.4	86.3	85.7	166.3	164.2	262.1	260.4	489.	1 25.1	-1.1 – 23.2	1.3 – 20.8	11.0
15.24/	600	39.5	47.3	55.6	71.9	71.3	103.6	102.9	199.6	197.1	314.6	312.7	587.	1 30.1	-1.3 – 27.8	1.6 – 24.9	13.3
17.78/	700	46.1	55.2	65.0	84.0	83.2	120.9	120.1	233.0	230.1	367.1	365.1	-	- 35.2	-1.5 - 32.5	1.9 – 29.1	15.5
20.32/	800	52.7	63.1	74.3	96.0	95.1	138.3	137.3	266.4	263.0	419.6	417.4	-	- 40.2	-1.8 – 37.1	2.1 – 33.2	17.7
22.86/	900	59.3	71.0	83.6	108.1	107.1	155.6	154.5	299.7	296.0	472.2	469.5	-	- 45.3	-2.0 -41.7	2.4 – 37.4	19.9
25.40/	1000	65.9	78.9	92.9	120.1	119.0	172.9	171.7	333.1	328.9	524.7	522.1	-	- 50.4	-2.2 -46.4	2.7 – 41.5	22.1

- The value for L (distance to screen) varies slightly within $\pm 5\%$ depending on the zoom lens characteristics.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.
- When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.

NOTE: When the ET-D75LE50 is mounted, the optical lens shift function cannot be used.

PT-**DZ21K2**

Projection distance for 16:9 aspect ratio screen

(ET-D75LE6/D75LE10/D75LE20/D75LE30/D75LE40/D75LE8/D75LE50)

Unit: meters

Screen							Distance	to scree	en (L)							the edge of s	
(diagona	al)								Zoom					Fixed-focus	to cen	ter of lens (H)	1
			75LE6 n lens		'5LE10 n lens		ET-D75LE20 Zoom lens		ET-D75LE30 Zoom lens		075LE40 om lens		75LE8 n lens	ET-D75LE50 Fixed-focus	Except	lenses ET-D75LE6	Fixed- focus
[m] /	[in]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	- lens	ET-D75LE6		lens
1.78/	70	1.39	1.66	1.96	2.53	2.53	3.68	3.66	7.14	7.07	11.36	11.09	21.14	1.04	-0.09 - 0.96	0.00 - 0.87	0.44
2.03/	80	1.60	1.91	2.25	2.91	2.91	4.23	4.20	8.19	8.10	13.00	12.73	24.22	1.20	-0.10 - 1.10	0.00 - 1.00	0.50
2.29/	90	1.81	2.16	2.54	3.29	3.28	4.77	4.74	9.23	9.13	14.65	14.37	27.29	1.36	-0.11 - 1.23	0.00 - 1.12	0.56
2.54/	100	2.01	2.41	2.83	3.67	3.65	5.31	5.28	10.28	10.16	16.29	16.01	30.36	1.51	-0.13 - 1.37	0.00 - 1.25	0.62
3.05/	120	2.43	2.90	3.42	4.42	4.40	6.40	6.36	12.37	12.23	19.58	19.29	36.50	1.83	-0.15 - 1.64	0.00 - 1.49	0.75
3.81/	150	3.05	3.65	4.29	5.55	5.52	8.03	7.97	15.50	15.32	24.52	24.21	45.72	2.31	-0.19 - 2.06	0.00 - 1.87	0.93
5.08/	200	4.08	4.89	5.76	7.44	7.39	10.74	10.67	20.73	20.48	32.75	32.40	61.08	3.10	-0.25 - 2.74	0.00 - 2.49	1.25
6.35/	250	5.12	6.13	7.22	9.33	9.26	13.46	13.36	25.96	25.64	40.97	40.60	76.44	3.89	-0.31 - 3.42	0.00 - 3.11	1.56
7.62/	300	6.15	7.37	8.68	11.21	11.13	16.17	16.06	31.18	30.80	49.20	48.80	91.79	4.68	-0.37 - 4.11	0.00 - 3.74	1.87
10.16/	400	8.22	9.85	11.60	14.99	14.86	21.60	21.45	41.64	41.12	65.65	65.19	122.51	6.29	-0.50 - 5.48	0.00 - 4.98	2.49
12.70/	500	10.29	12.33	14.52	18.76	18.60	27.03	26.84	52.09	51.44	82.11	81.59	153.23	7.85	-0.62 - 6.85	0.00 - 6.23	3.11
15.24/	600	12.36	14.81	17.44	22.54	22.33	32.46	32.23	62.54	61.76	98.56	97.98	183.95	9.44	-0.75 - 8.22	0.00 - 7.47	3.74
17.78/	700	14.43	17.29	20.36	26.31	26.07	37.89	37.62	73.00	72.09	115.02	114.38	_	11.02	-0.87 - 9.59	0.00 - 8.72	4.36
20.32/	800	16.50	19.77	23.28	30.09	29.81	43.31	43.01	83.45	82.45	131.47	130.77	_	12.61	-1.00 – 10.96	0.00 - 9.96	4.98
22.86/	900	18.57	22.25	26.20	33.86	33.54	48.74	48.40	93.90	92.73	147.92	147.17	_	14.19	-1.12 – 12.33	0.00 - 11.21	5.60
25.40/1	000	20.64	24.73	29.12	37.64	37.28	54.17	53.79	104.36	103.05	164.38	163.56	_	15.78	-1.25 – 13.70	0.00 - 12.45	6.23

U	nit:	feet

Screen							Distance	to scree	en (L)							the edge of s	
(diagon	al)								Zoom					Fixed-focus	to cen	ter of lens (H))
		ET-D7 Zoom			75LE10 n lens		75LE20 m lens		075LE30 om lens		75LE40 om lens		75LE8 1 lens	ET-D75LE50 Fixed-focus	Zoom Except ET-D75LE6	lenses ET-D75LE6	Fixed- focus
[m] /	[in]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	- lens	EI-D/SLEO		lens
1.78/	70	4.6	5.5	6.4	8.3	8.3	12.1	12.0	23.4	23.2	37.3	36.4	69.4	3.4	-0.3 - 3.2	0.0 - 2.9	1.4
2.03/	80	5.2	6.3	7.4	9.6	9.5	13.9	13.8	26.9	26.6	42.7	41.8	79.4	3.9	-0.3 - 3.6	0.0 - 3.3	1.6
2.29/	90	5.9	7.1	8.3	10.8	10.8	15.6	15.5	30.3	30.0	48.1	47.1	89.5	4.4	-0.4 - 4.1	0.0 - 3.7	1.8
2.54/	100	6.6	7.9	9.3	12.0	12.0	17.4	17.3	33.7	33.3	53.5	52.5	99.6	5.0	-0.4 - 4.5	0.0 - 4.1	2.0
3.05/	120	8.0	9.5	11.2	14.5	14.4	21.0	20.8	40.6	40.1	64.2	63.3	119.8	6.0	-0.5 - 5.4	0.0 - 4.9	2.5
3.81/	150	10.0	12.0	14.1	18.2	18.1	26.3	26.2	50.9	50.3	80.4	79.4	150.0	7.6	-0.6 - 6.7	0.0 - 6.1	3.1
5.08/	200	13.4	16.0	18.9	24.4	24.2	35.2	35.0	68.0	67.2	107.4	106.3	200.4	10.2	-0.8 - 9.0	0.0 - 8.2	4.1
6.35/	250	16.8	20.1	23.7	30.6	30.4	44.1	43.8	85.2	84.1	134.4	133.2	250.8	12.8	-1.0 – 11.2	0.0 - 10.2	5.1
7.62/	300	20.2	24.2	28.5	36.8	36.5	53.1	52.7	102.3	101.1	161.4	160.1	301.2	15.4	-1.2 – 13.5	0.0 - 12.3	6.1
10.16/	400	27.0	32.3	38.0	49.2	48.8	70.9	70.4	136.6	134.9	215.4	213.9	401.9	20.6	-1.6 – 18.0	0.0 - 16.3	8.2
12.70/	500	33.8	40.4	47.6	61.6	61.0	88.7	88.0	170.9	168.8	269.4	267.7	502.7	25.8	-2.0 - 22.5	0.0 - 20.4	10.2
15.24/	600	40.6	48.6	57.2	73.9	73.3	106.5	105.7	205.2	202.6	323.4	321.5	603.5	31.0	-2.5 - 27.0	0.0 - 24.5	12.3
17.78/	700	47.4	56.7	66.8	86.3	85.5	124.3	123.4	239.5	236.5	377.3	375.3	-	36.2	-2.9 - 31.5	0.0 - 28.6	14.3
20.32/	800	54.1	64.8	76.4	98.7	97.8	142.1	141.1	273.8	270.5	431.3	429.0	-	41.4	-3.3 - 36.0	0.0 - 32.7	16.3
22.86/	900	60.9	73.0	85.9	111.1	110.0	159.9	158.8	308.1	304.2	485.3	482.8	-	46.6	-3.7 - 40.4	0.0 - 36.8	18.4
25.40/	1000	67.7	81.1	95.5	123.5	122.3	177.7	176.5	342.4	338.1	539.3	536.6	-	51.8	-4.1 -44.9	0.0 - 40.9	20.4

- The value for L (distance to screen) varies slightly within $\pm 5\%$ depending on the zoom lens characteristics.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.
- When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.

NOTE: When the ET-D75LE50 is mounted, the optical lens shift function cannot be used.

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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

Zoom lenses

Fixed-focus lone		
ET-D75LE8	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.1595 - 0.3862 L (m) = (diagonal screen size in inches) \times 0.2989 - 0.3598
ET-D75LE40	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.1004 - 0.1577 L (m) = (diagonal screen size in inches) \times 0.1601 - 0.1615
ET-D75LE30	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0524 - 0.1131 L (m) = (diagonal screen size in inches) \times 0.1017 - 0.1765
ET-D75LE20	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0364 - 0.0832 L (m) = (diagonal screen size in inches) \times 0.0528 - 0.1162
ET-D75LE10	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0284 - 0.0857 L (m) = (diagonal screen size in inches) \times 0.0367 - 0.1085
ET-D75LE6	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0201 - 0.0566 L (m) = (diagonal screen size in inches) \times 0.0241 - 0.0736

Fixed-focus lens

ET-D75LE50 L (m) = (diagonal screen size in inches) \times 0.0154 - 0.0713

Aspect ratio 16:9

Zoom lenses

ET-D75LE6	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0207 - 0.0566 L (m) = (diagonal screen size in inches) \times 0.0248 - 0.0736
ET-D75LE10	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0292 - 0.0857 L (m) = (diagonal screen size in inches) \times 0.0377 - 0.1085
ET-D75LE20	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0374 - 0.0832 L (m) = (diagonal screen size in inches) \times 0.0543 - 0.1162
ET-D75LE30	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0539 - 0.1131 L (m) = (diagonal screen size in inches) \times 0.1045 - 0.1765
ET-D75LE40	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.1032 - 0.1577 L (m) = (diagonal screen size in inches) \times 0.1645 - 0.1615
ET-D75LE8	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.1640 - 0.3862 L (m) = (diagonal screen size in inches) \times 0.3072 - 0.3598
Fixed-focus lens		

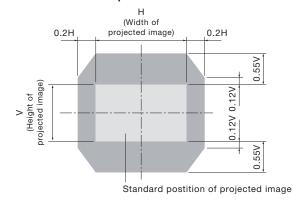
ET-D75LE50 L (m) = (diagonal screen size in inches) \times 0.0159 - 0.0713

[•] Distances calculated with the above equations will include slight deviations.

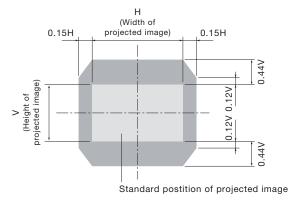
Shift range

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

• When the lens except the ET-D75LE6 is mounted



• When the ET-D75LE6 is mounted



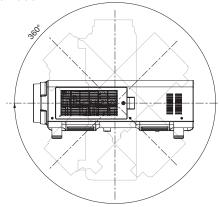
NOTE: Because the ET-D75LE50 is a fixed short-throw lens, the lens shift function cannot be used with it.

Installable angle

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

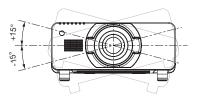
• Vertical direction

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



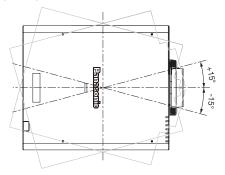
Horizontal direction

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



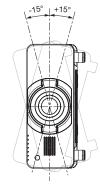
• Vertical direction in portrait mode with the ET-LAD520P/LAD520PF mounted

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



· Horizontal direction in portrait mode with the ET-LAD520P/LAD520PF mounted

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



NOTE: The projector cannot be vertically installed all by itself. Also, the terminal side must face downward when vertically installed.

List of compatible signals

The signals that can be input to this projector are shown in the table below. Horizontal scanning frequencies of 15 kHz to 100 kHz, vertical scanning frequencies of 24 Hz to 120 Hz, and a dot clock of 162 MHz maximum can be input.

NOTE: The native resolution of this projector is 1,920 × 1,200 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	Scanning fre	equency V	Dot clock frequency	Format
	(dots)*1	(kHz)	(kHz)	(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)	720 × 480i	15.7	59.9	13.5	SDI/RGB/YC _B C _R
576i (625i)	720 × 576i	15.6	50.0	13.5	-
480i (525i)	720(1440) × 480i*2	15.7	59.9	27.0	LIDAU/DV/L D/
576i (625i)	720(1440) × 576i*2	15.6	50.0	27.0	- HDMI/DVI-D/
480p (525p)	720 × 483	31.5	59.9	27.0	HDMI/DVI-D/
576p (625p)	720 × 576	31.3	50.0	_	RGB/YCBCR
720/60p	1280 × 720	45.0	60.0	74.3	SDI/HDMI/DVI-D
720/50p	_	37.5	50.0	_	RGB/YP _B P _R
1080/60i	1920 × 1080i	33.8	60.0	_	
1080/50i	_	28.1	50.0	_	
1080/24p	1920 × 1080	27.0	24.0	_	
1080/24sF	1920 × 1080i	27.0	48.0	_	
1080/25p	1920 × 1080	28.1	25.0	_	
1080/30p	_	33.8	30.0	_	
1080/60p	_	67.5	60.0	148.5	SDI* ³ /HDMI/DVI-
1080/50p	_	56.3	50.0	_	RGB/YP _B P _R
2K/24p	2048 × 1080	27.0	24.0	74.3	SDI* ⁴
2K/24sF	2010 × 1000	27.0			SDI
2K/24sF	_	54.0	48.0	148.5	- SDI*
2K/24sF	_	56.3	50.0	_ 140.5	301
2K/24sF	_	67.5	60.0	_	
VGA400	640 × 400	31.5	70.1	25.2	HDMI/DVI-D/RG
VGA400	040 X 400	37.9	85.1	31.5	- HDIVII/DVI-D/NG
VGA480	640 400	31.5	59.9	25.2	-
VGA460	640 × 480	35.0	66.7	30.2	-
	_				-
	_	37.9	72.8	31.5	-
	_	37.5	75.0	31.5	-
01/04		43.3	85.0	36.0	-
SVGA	800 × 600 _	35.2	56.3	36.0	-
	_	37.9	60.3	40.0	-
	_	48.1	72.2	50.0	-
	_	46.9	75.0	49.5	
		53.7	85.1	56.3	-
MAC16	832 × 624	49.7	74.6	57.3	-
XGA	1024 × 768	39.6	50.0	51.9	-
	_	48.4	60.0	65.0	-
	_	56.5	70.1	75.0	-
	_	60.0	75.0	78.8	-
	_	65.5	81.6	86.0	_
	_	68.7	85.0	94.5	_
	_	81.4	100.0	113.3	_
		98.8	120.0	139.1	_
MXGA	1152 × 864	53.7	60.0	81.6	_
	_	64.0	71.2	94.2	_
	_	67.5	74.9	108.0	_
		76.7	85.0	121.5	-
MAC21	1152 × 870	68.7	75.1	100.0	-

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

^{*2} Pixel-Repetition signal (dot clock frequency 27.0 MHz) only

^{*3} SDI 1 only.

^{*4} For dual-link connection only.

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Display mode	Display resolution	Scanning fro	equency V	Dot clock frequency	Format	
	(dots)	(kHz)	(kHz)	(MHz)		
1280 × 720	1280 × 720	37.1	49.8	60.5	HDMI/DVI-D/RGE	
		44.8	59.9	74.5	-	
		76.3	100.0	131.8	-	
		92.6	120.0	161.6	-	
1280 × 768	1280 × 768	39.6	49.9	65.3	-	
		47.8	59.9	79.5	-	
	1280 × 768*	47.4	60.0	68.3	-	
	1280 × 768	60.3	74.9	102.3	-	
		68.6	84.8	117.5	-	
1280 × 800	1280 × 800	41.3	50.0	68.0	-	
		49.7	59.8	83.5	-	
	1280 × 800*	49.3	59.9	71.0	-	
	1280 × 800	62.8	74.9	106.5	-	
		71.6	84.9	122.5	-	
MSXGA	1280 × 960	60.0	60.0	108.0	-	
SXGA	1280 × 1024	52.4	50.0	88.0	-	
		64.0	60.0	108.0	_	
		72.3	66.3	125.0	-	
		78.2	72.0	135.1	-	
		80.0	75.0	135.0	-	
		91.1	85.0	157.5	-	
1366×768	1366 × 768	47.7	59.8	85.5	_	
1000×100	1300 × 700	39.6	49.9	69.0	_	
SXGA+	1400 × 1050	54.1	50.0	99.9	_	
ОЛОАТ	1400 × 1030	64.0	60.0	108.0	_	
		65.2	60.0	122.6	_	
		65.3	60.0	121.8	=	
		78.8	72.0	149.3	=	
					-	
M/VOA .	1110 000	82.2	75.0	155.9	-	
WXGA+	1440 × 900	55.9	59.9	106.5	-	
1000 000	1000 000	46.3	49.9	86.8	_	
1600×900	1600 × 900	46.4	49.9	96.5	_	
		55.9	59.9	119.0	=	
UXGA60	1600 × 1200	61.8	49.9	131.5	=	
14/03/04		75.0	60.0	162.0	=	
WSXGA+	1680 × 1050	65.3	60.0	146.3	=	
		54.1	50.0	119.5	_	
1920×1080	1920 × 1080	55.6	49.9	141.5	=	
	1920 × 1080*	66.6	59.9	138.5		
	1920 × 1080	67.2	60.0	173.0	RGB	
WUXGA	1920 × 1200	61.8	49.9	158.3	HDMI/DVI-D/RG	
	1920 × 1200*	74.0	60.0	154.0		
	1920 × 1200	74.6	59.9	193.3	RGB	

^{*} Compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).

List of compatible 3D signals

The 3D signals that can be input to this projector are shown in the table below.

Display mode	Display	Scanni		Dot clock	HDMI			DVI-D			,
	resolution (dots)* ¹	frequer H	ncy V	frequency (MHz)	Frame packing	Side by side*2	Top and bottom	Side by side*2	Top and bottom	Line by line	Frame sequer
		(kHz)	(kHz)								tial
720/60p	1280 × 720	45.0	60.0	74.3	Yes	Yes	Yes	Yes	Yes	Yes	_
720/50p		37.5	50.0	74.3							
1080/60i	1920 × 1080i	33.8	60.0	74.3			-			_	
1080/50i	_	28.1	50.0	74.3							
1080/24p	1920 × 1080	27.0	24.0	74.3			Yes]			
1080/24sF	1920 × 1080i	27.0	48.0	74.3	_	-	_				
1080/25p	1920 × 1080	28.1	25.0	74.3							
1080/30p	_	33.8	30.0	74.3							
1080/60p	_	67.5	60.0	148.5		Yes	Yes				
1080/50p		56.3	50.0	148.5							
VGA480	640 × 480	31.5	59.9	25.2		_	_		_		
SVGA	800 × 600	37.9	60.3	40.0							
XGA	1024 × 768	39.6	50.0	51.9							
	_	48.4	60.0	65.0	1						
	-	81.4	100.0	113.3				_			Yes
	-	98.8	120.0	139.1							
MXGA	1152 × 864	53.7	60.0	81.6				Yes			_
1280 × 720	1280 × 720	37.1	49.8	60.5							
	-	44.8	59.9	74.5							
	-	76.3	100.0	131.8	1			_			Yes
	-	92.6	120.0	161.6	1						
1280 × 768	1280 × 768	39.6	49.9	65.3	1			Yes			_
	-	47.8	59.9	79.5	1						
	1280 × 768 *3	47.4	60.0	68.3	1						
1280 × 800	1280 × 800	41.3	50.0	68.0	1						
	-	49.7	59.8	83.5	1						
	1280 × 800 *3	49.3	59.9	71.0	1						
MSXGA	1280 × 960	60.0	60.0	108.0	-						
SXGA	1280 × 1024	52.4	50.0	88.0	-						
	-	64.0	60.0	108.0	1						
1366 × 768	1366 × 768	47.7	59.8	85.5	-						
	-	39.6	49.9	69.0	1						
SXGA+	1400 × 1050	54.1	50.0	99.9	1						
	-	64.0	60.0	108.0	1						
	_	65.2	60.0	122.6	-						
	-	65.3	60.0	121.8	-						
WXGA+	1440 × 900	55.9	59.9	106.5	-						
	-	46.3	49.9	86.8	-						
1600 × 900	1600 × 900	46.4	49.9	96.5	-						
. 500 000	1000 × 000	55.9	60.0	119.0	1						
UXGA60	1600 × 1200	75.0	60.0	162.0	1						
2.10/100	1000 × 1200	61.8	49.9	131.5	1						
WSXGA+	1680 × 1050	65.3	60.0	146.3	+						
	1000 x 1000		50.0	119.5	-						
1920 × 1080	1020 × 1000	54.1	49.9	141.5	-						
1020 × 1000	1920 × 1080 1920 × 1080 *3	55.6	59.9	138.5	-						
WUXGA		66.6			-						
VVUAGA	1920 × 1200	61.8	49.9	158.3	-					V	4
	1920 × 1200 *3	74.0	60.0	154.0						Yes	

 $[\]star 1$ The "i" appearing after the resolution indicates an interlaced signal.

^{*2} Compatible with half-resolution signals.
*3 Compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).

PT-**DZ21K2**

Display mode	Display resolution (dots)* ¹	Scanning frequency H V (kHz) (kHz)		Dot clock frequency (MHz)	RGB1/RGB2				SDI1/SDI2			HDMI & DVI-D	RGB1 & RGB2	SDI1 & SDI2	3G-SDI Level B
		(kHz) (k	(HZ)		Side by side*2	Top and bottom	Line by line	Frame sequen- tial	Side by side*2	Top and bottom	Line by line	Simul- taneous	Simul- taneous	Simul- taneous	
720/60p	1280 × 720	45.0 6	0.0	74.3	Yes	Yes	Yes	_	Yes	Yes	Yes	Yes	Yes	Yes	Yes*3
720/50p		37.5 5	0.0	74.3											
1080/60i	1920 × 1080i	33.8 6	0.0	74.3			-				-				
1080/50i		28.1 5	0.0	74.3											
1080/24p	1920 × 1080	27.0 2	4.0	74.3											
1080/24sF	1920 × 1080i	27.0 4	8.0	74.3											
1080/25p	1920 × 1080	28.1 2	5.0	74.3											
1080/30p		33.8 3	0.0	74.3											
1080/60p	•	67.5 6	0.0	148.5	1				Yes*3	Yes*3	1			_	-
1080/50p		56.3 5	0.0	148.5	1										
VGA480	640 × 480	31.5 5	9.9	25.2	1	_	1		_	_	1	_	_	1	
SVGA	800 × 600	37.9 6	0.3	40.0	1										
XGA	1024 × 768	39.6 5	0.0	51.9	1										
	•	48.4 6	0.0	65.0	1										
	•	81.4 10	0.0	113.3	-	1		Yes							
	•	98.8 12	0.0	139.1	1										
MXGA	1152 × 864		0.0	81.6	Yes			_							
1280 × 720	1280 × 720		9.8	60.5	1										
	1200 11 120		9.9	74.5	1										
			0.0	131.8	_	-		Yes							
			0.0	161.6	-			100							
1280 × 768	1280 × 768		9.9	65.3	Yes	-		_							
	1200 x 700		9.9	79.5	163			_							
	1280 × 768 *4		0.0	68.3	-										
1280 × 800	1280 × 708		0.0	68.0	-										
	1260 x 600		9.8	83.5	-										
	1280 × 800 *4		9.9	71.0	-										
MSXGA					-										
SXGA	1280 × 960		0.0	108.0	-										
SAGA	1280 × 1024		0.0	88.0	-										
1366 × 768	1000 700		0.0	108.0	-										
	1366 × 768		9.8	85.5	-										
	1100 1050		9.9	69.0	-							.,			
SXGA+	1400 × 1050		0.0	99.9	1							Yes	Yes		
			0.0	108.0	1										
			0.0	122.6	1										
			0.0	121.8											
WXGA+	1440 × 900		9.9	106.5								_	_		
		46.3 4	9.9	86.8											
1600 × 900	1600 × 900	46.4 4	9.9	96.5											
		55.9 6	0.0	119.0											
UXGA60	1600 × 1200	75.0 6	0.0	162.0											
		61.8 4	9.9	131.5											
WSXGA+	1680 × 1050	65.3 6	0.0	146.3											
		54.1 5	0.0	119.5											
1920 × 1080	1920 × 1080	55.6 4	9.9	141.5											
-	1920 × 1080 *4	66.6 5	9.9	138.5											
WUXGA	1920 × 1200	61.8 4	9.9	158.3	1							Yes	Yes	1	
	1920 × 1200 *4	74.0 6	0.0	154.0	1		Yes	1							

^{*1} The "i" appearing after the resolution indicates an interlaced signal.
*2 Compatible with half-resolution signals.
*3 SDI 1 only.
*4 Compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).