# Panasonic

S P E C   F I L E

**Product Number :**   PT-**DW11K**

**Product Name :**   3-Chip DLP™ Projector

3-Chip DLP™ Projector

# PT-**DW11K**

## Specifications

**Main unit**

| | | |
|---|---|---|
| Power supply | | 120 V AC, 9.1 A, 50/60 Hz |
| | | 220–240 V AC, 4.8 A, 50/60 Hz |
| Power consumption | 120 V AC, 50/60 Hz | 980 W (1,010 VA) (0.2 W with standby mode set to eco.[1] 6 W with standby mode set to normal. Both with fan stopped.) |
| | 220–240 V AC, 50/60 Hz | 950 W (980 VA) (0.3 W with standby mode set to eco.[1] 9 W with standby mode set to normal. Both with fan stopped.) |
| DLP™ chip | Panel size | 21.6 mm (0.85 inches) diagonal (16:9 aspect ratio) |
| | Display method | DLP™ chip × 3 (R, G, B), DLP™ projection system |
| | Pixels | 1,049,088 (1,366 × 768) × 3, total of 3,147,264 pixels |
| Lens | | Optional powered zoom/focus lenses |
| Lamp | | 380 W UHM lamps (× 2) (dual lamp, high mode) |
| 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] | | 11,000 lumens (dual lamp, high mode) |
| Center-to-corner uniformity[2] | | 90% |
| Contrast[2] | | 10,000:1 (full on/full off, in dynamic iris 3 mode) |
| Resolution | | 1,366 × 768 pixels (Input signals that exceed this resolution will be converted to 1,366 × 768 pixels.) |
| Scanning frequency | HDMI/DVI-D/RGB | Horizontal: 15 kHz–100 kHz, vertical: 24 Hz – 120 Hz, dot clock: 25–162 MHz or lower (HDMI/DVI: 25 MHz – 162 MHz) |
| | YPBPR (YCBCR) | 525i (480i): $f_H$ 15.75 kHz; $f_V$ 60 Hz, |
| | | 625i (576i): $f_H$ 15.63 kHz; $f_V$ 50 Hz, |
| | | 525p (480p): $f_H$ 31.50 kHz; $f_V$ 60 Hz, |
| | | 625p (576p): $f_H$ 31.25 kHz; $f_V$ 50 Hz, |
| | | 750 (720)/60p: $f_H$ 45.00 kHz; $f_V$ 60 Hz, |
| | | 750 (720)/50p: $f_H$ 37.50 kHz; $f_V$ 50 Hz, |
| | | 1125 (1035)/60i: $f_H$ 33.75 kHz; $f_V$ 60 Hz, |
| | | 1125 (1080)/60i: $f_H$ 33.75 kHz; $f_V$ 60 Hz, |
| | | 1125 (1080)/50i: $f_H$ 28.13 kHz; $f_V$ 50 Hz, |
| | | 1125 (1080)/25p: $f_H$ 28.13 kHz; $f_V$ 25 Hz, |
| | | 1125 (1080)/24p: $f_H$ 27.00 kHz; $f_V$ 24 Hz, |
| | | 1125 (1080)/24sF: $f_H$ 27.00 kHz; $f_V$ 48 Hz, |
| | | 1125 (1080)/30p: $f_H$ 33.75 kHz; $f_V$ 30 Hz, |
| | | 1125 (1080)/60p: $f_H$ 67.50 kHz; $f_V$ 60 Hz, |
| | | 1125 (1080)/50p: $f_H$ 56.25 kHz; $f_V$ 50 Hz |
| | Video/S-Video | $f_H$: 15.75 kHz, $f_V$: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60] |
| | | $f_H$: 15.63 kHz, $f_V$: 50 Hz [PAL/PAL-N/SECAM] |
| Optical axis shift | Vertical | ±70% (±60% with the ET-D75LE6) from center of screen, powered |
| | Horizontal | ±30% (±20% with the ET-D75LE6) 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 ±22° with the ET-D75LE5/LE50, vertical ±28° with the ET-D75LE6) |
| Installation | | Ceiling/floor, front/rear |
| Terminals | HDMI IN | HDMI 19-pin × 1, Deep Color, compatible with HDCP, 525i(480i)[3], 625i(576i)[3], 525p(480p), 625p(576p), 750(720)/60p, 750(720)50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p, 1125(1080)/60p, 1125(1080)/50p VGA (640 × 480) – WUXGA[4] (1,920 × 1,200), dot clock: 25 MHz – 162 MHz |

**NOTE: Compatible with non-interlaced signals only.**

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| | | |
|---|---|---|
| | DVI-D IN | DVI-D 24-pin × 1, DVI 1.0 compliant, HDCP compatible, for single link only |
| | | 525i(480i)[3], 625i(576i)[3], 525p(480p), 625p(576p), 750(720)/60p, 750(720)50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p, 1125(1080)/60p, 1125(1080)/50p |
| | | VGA (640 × 480) − WUXGA[4] (1,920 × 1,200), dot clock: 25 MHz − 162 MHz |

**NOTE: Compatible with non-interlaced signals only.**

| | | |
|---|---|---|
| | RGB 1 IN | BNC × 5 |
| | 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, $P_B$, $P_R$ (Y, $C_B$, $C_R$) | Y: 1.0 Vp-p (including sync signal), $P_B$/$P_R$ ($C_B$/$C_R$): 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, $P_B$, $P_R$ (Y, $C_B$, $C_R$) | Y: 1.0 Vp-p (including sync signal), $P_B$/$P_R$ ($C_B$/$C_R$): 0.7 Vp-p, 75 ohms |
| | VIDEO IN | BNC × 1, 1.0 Vp-p, 75 ohms |
| | 3D SYNC 1 IN/OUT | BNC × 1, 1.0 Vp-p, 75 ohms |
| | | Input: TTL, high impedance. Output: TTL, max. 10 mA |
| | 3D SYNC 2 OUT | BNC × 1, 1.0 Vp-p, 75 ohms,  TTL, max. 10 mA |
| | SERIAL IN | D-sub 9-pin (female) × 1 for external control (RS-232C compliant) |
| | SERIAL OUT | D-sub 9-pin (male) × 1 for link control (RS-232C compliant) |
| | REMOTE 1 IN | M3 jack × 1 for wired remote control |
| | REMOTE 1 OUT | M3 jack × 1 for link control |
| | REMOTE 2 IN | D-sub 9-pin × 1 for external control (parallel) |
| | LAN | RJ-45 × 1 for network connection, 100Base-TX/10Base-T, compliant with PJLink™ (class 1) |

| | |
|---|---|
| Power cord length | 3.0 m (9 ft 10 in) |
| Cabinet materials | Molded plastic |
| Dimensions (W × H × D): | 530 × 200[5] × 548.5 mm |
| | (20-7/8 × 7-7/8[5] × 21-19/32 inches) (without lens) |
| Weight[6] | 24 kg (52.9 lbs) (without lens) |
| Operation noise[2] | 45 dB (high mode), 43 dB (middle mode), 37 dB (eco mode) |
| Operating temperature | 0°− 45°C (32°−113°F)[7] |
| Operating humidity | 10%−80% (no condensation) |

**Remote control unit**

| | |
|---|---|
| Power supply | 3 V DC (AA/R6 type battery × 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) | 51 × 176 × 28 mm (2 × 6-15/16 × 1-3/32 inches) |
| Weight | Approx. 134 g (4.7 oz) (including batteries) |

**Supplied accessories**

Power cord (×1) (x2 for PT-DW11KE)
Wireless/wired remote control unit (× 1)
Batteries for remote control (AA/R6 type × 2)
Lens drop-prevention screw (× 1)
Software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software) (× 1)
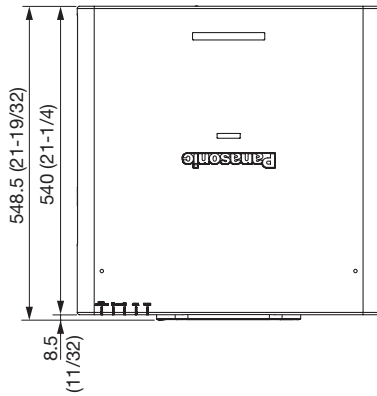
**Optional accessories**

| | |
|---|---|
| Zoom lens (1.0 – 1.2:1) | ET-D75LE6 |
| Zoom lens (1.4 – 1.9:1) | ET-D75LE10 |
| Zoom lens (1.8 – 2.7:1) | ET-D75LE20 |
| Zoom lens (2.7 – 5.2:1) | ET-D75LE30 |
| Zoom lens (5.1 – 8.2:1) | ET-D75LE40 |
| Zoom lens (8.2 – 15.4:1) | ET-D75LE8 |
| Fixed-focus lens (0.8:1) | ET-D75LE50 |
| Lens motor cover | ET-D75MC1 |
| Ceiling mount bracket*9 | ET-PKD120H (for high ceilings) |
| | ET-PKD120S (for low ceilings) |
| Attachment for ceiling mount bracket | ET-PAD310 |
| Frame | ET-PFD310 |
| Smoke cut filter | ET-SFD320 |
| Replacement smoke cut filter | ET-SFR320 |
| Replacement lamp unit | ET-LAD310A (one bulb) |
| | ET-LAD310AW (a set of two bulbs) |
| Replacement lamp unit for portrait mode | ET-LAD320P (one bulb) |
| | ET-LAD320PW (a set of two bulbs) |
| Replacement filter unit | ET-EMF320 |

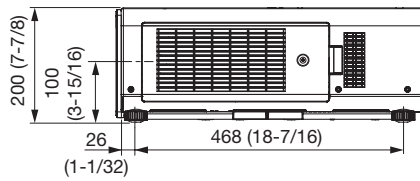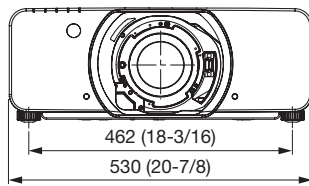Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice.

*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.

*3 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal)

*4 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).

*5 With legs at shortest position.

*6 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-SFD320 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-LAD320P/LAD320PW 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-SFD320 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.

*9 Either the ET-PKD310H ceiling mount bracket for high ceilings or the ET-PKD310S ceiling mount bracket for low ceilings can be used.

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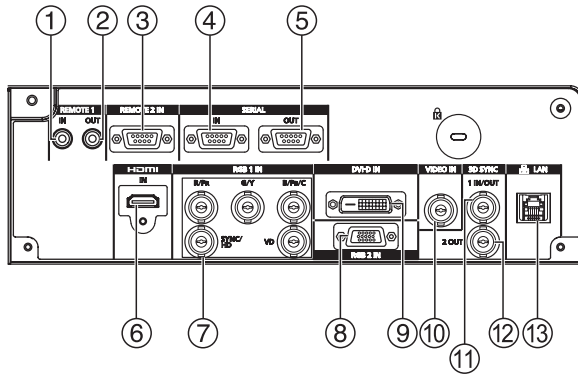
# PT-**DW11K**

## Dimensions

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

548.5 (21-19/32)
540 (21-1/4)
8.5 (11/32)

462 (18-3/16)
530 (20-7/8)

200 (7-7/8)
100 (3-15/16)
26 (1-1/32)
468 (18-7/16)

## Terminals

| # | Terminal |
|---|----------|
| 1 | Remote 1 input |
| 2 | Remote 1 output |
| 3 | Remote 2 input |
| 4 | Serial input |
| 5 | Serial output |
| 6 | HDMI input |
| 7 | RGB 1 input |
| 8 | RGB 2 Input |
| 9 | DVI-D input |
| 10 | Video input |
| 11 | 3D sync 1 input/output |
| 12 | 3D sync 2 output |
| 13 | LAN connector |

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## Standard setting-up position
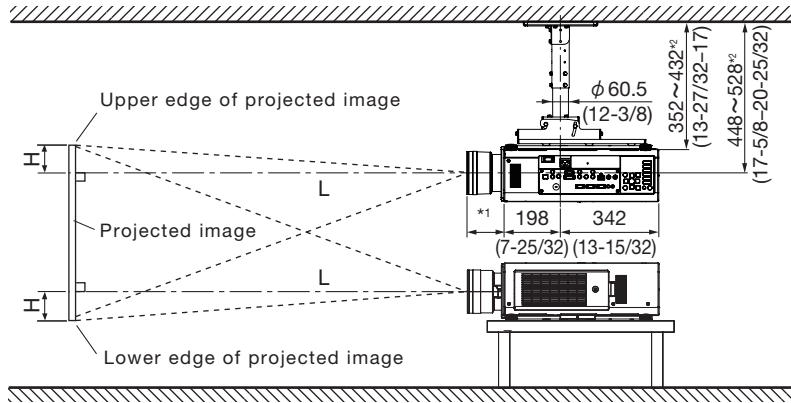


**\*1** When the lens protrudes to the maximum.
212 mm (8-11/32) with the ET-D75LE6
125 mm (4-29/32) with the ET-D75LE10
121 mm (4-3/4) with the ET-D75LE20
121 mm (4-3/4) with the ET-D75LE30
124 mm (4-7/8) with the ET-D75LE40
254 mm (10) with the ET-D75LE8
203 mm (8) with the ET-D75LE50

**\*2** Adjustable in 40 mm (1-9/16) steps.

unit : mm (inch)
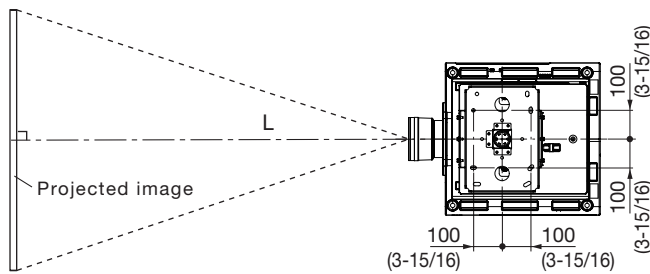
**NOTE:**

**Illustrations show the projector installed using optional ceiling mount bracket ET-PKD120H, optional bracket assembly ET-PKD310 and an optional lens.**

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**Caution:**
• All construction work should be done by a qualified technician.
• When mounting to the ceiling, use the special mounting bracket.
Furthermore, in order to prevent it from falling down from the ceiling, use the supplied wire on the mounting bracket.

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3-Chip DLP™ Projector

# PT-**DW11K**

## Projection distance for 16:9 aspect ratio screen
(ET-D75LE6/D75LE10/D75LE20/D75LE30/D75LE40/D75LE8/D75LE50)

Unit: meters

| Screen size (diagonal) | Distance to screen (L) | | | | | | | | | | | | | Height from the edge of screen to center of lens (H) | | |
| | | | | | | | | | | Zoom | | Fixed-focus | | | | |
| | ET-D75LE6 Zoom lens | | ET-D75LE10 Zoom lens | | ET-D75LE20 Zoom lens | | ET-D75LE30 Zoom lens | | ET-D75LE40 Zoom lens | | ET-D75LE8 Zoom lens | | ET-D75LE50 Fixed-focus lens | Zoom lenses | | Fixed-focus lens |
| | | | | | | | | | | | | | | Except ET-D75LE6 | ET-D75LE6 | |
| [m] / [in] | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | | | | |
| 1.78 / 70 | 1.56 | 1.87 | 2.18 | 2.82 | 2.82 | 4.10 | 4.07 | 7.94 | 7.86 | 12.62 | 12.43 | 23.65 | 1.16 | -0.17 – 1.05 | -0.09 – 0.96 | 0.44 |
| 2.03 / 80 | 1.79 | 2.14 | 2.51 | 3.24 | 3.23 | 4.70 | 4.67 | 9.10 | 9.01 | 14.45 | 14.26 | 27.08 | 1.34 | -0.20 – 1.20 | -0.10 – 1.10 | 0.50 |
| 2.29 / 90 | 2.02 | 2.42 | 2.83 | 3.66 | 3.65 | 5.31 | 5.27 | 10.26 | 10.15 | 16.27 | 16.09 | 30.51 | 1.51 | -0.22 – 1.35 | -0.11 – 1.23 | 0.56 |
| 2.54 / 100 | 2.25 | 2.70 | 3.16 | 4.08 | 4.06 | 5.91 | 5.87 | 11.42 | 11.30 | 18.10 | 17.92 | 33.94 | 1.69 | -0.25 – 1.49 | -0.13 – 1.37 | 0.62 |
| 3.05 / 120 | 2.72 | 3.25 | 3.80 | 4.92 | 4.89 | 7.11 | 7.07 | 13.75 | 13.59 | 21.75 | 21.59 | 40.80 | 2.04 | -0.30 – 1.79 | -0.15 – 1.64 | 0.75 |
| 3.81 / 150 | 3.41 | 4.08 | 4.78 | 6.18 | 6.14 | 8.92 | 8.86 | 17.23 | 17.02 | 27.23 | 27.08 | 51.10 | 2.57 | -0.37 – 2.24 | -0.19 – 2.06 | 0.93 |
| 5.08 / 200 | 4.56 | 5.47 | 6.40 | 8.27 | 8.21 | 11.93 | 11.85 | 23.03 | 22.75 | 36.36 | 36.23 | 68.25 | 3.45 | -0.50 – 2.99 | -0.25 – 2.74 | 1.25 |
| 6.35 / 250 | 5.72 | 6.85 | 8.02 | 10.36 | 10.28 | 14.95 | 14.84 | 28.83 | 28.48 | 45.49 | 45.39 | 85.40 | 4.33 | -0.62 – 3.74 | -0.31 – 3.42 | 1.56 |
| 7.62 / 300 | 6.87 | 8.24 | 9.64 | 12.46 | 12.36 | 17.96 | 17.83 | 34.63 | 34.20 | 54.62 | 54.54 | 102.55 | 5.21 | -0.75 – 4.48 | -0.37 – 4.11 | 1.87 |
| 10.16 / 400 | 9.18 | 11.01 | 12.88 | 16.65 | 16.50 | 23.98 | 23.81 | 46.23 | 45.66 | 72.88 | 72.85 | 136.85 | 6.97 | -1.00 – 5.98 | -0.50 – 5.48 | 2.49 |
| 12.70 / 500 | 11.49 | 13.78 | 16.12 | 20.84 | 20.65 | 30.01 | 29.80 | 57.83 | 57.11 | 91.14 | 91.16 | 171.16 | 8.72 | -1.25 – 7.47 | -0.62 – 6.85 | 3.11 |
| 15.24 / 600 | 13.80 | 16.55 | 19.36 | 25.02 | 24.80 | 36.03 | 35.78 | 69.43 | 68.56 | 109.40 | 109.47 | 205.46 | 10.48 | -1.49 – 8.97 | -0.75 – 8.22 | 3.74 |
| 17.78 / 700 | 16.11 | 19.32 | 22.60 | 29.21 | 28.94 | 42.06 | 41.76 | 81.03 | 80.02 | 127.66 | 127.78 | – | 12.24 | -1.74 – 10.46 | -0.87 – 9.59 | 4.36 |
| 20.32 / 800 | 18.42 | 22.09 | 25.84 | 33.40 | 33.09 | 48.08 | 47.74 | 92.63 | 91.47 | 145.92 | 146.09 | – | 14.00 | -1.99 – 11.96 | -1.00 – 10.96 | 4.98 |
| 22.86 / 900 | 20.73 | 24.86 | 29.08 | 37.59 | 37.23 | 54.11 | 53.72 | 104.23 | 102.92 | 164.18 | 164.40 | – | 15.76 | -2.24 – 13.45 | -1.12 – 12.33 | 5.60 |
| 25.40 / 1000 | 23.04 | 27.63 | 32.32 | 41.78 | 41.38 | 60.13 | 59.71 | 115.83 | 114.38 | 182.42 | 182.70 | – | 17.52 | -2.49 – 14.94 | -1.25 – 13.70 | 6.23 |

Unit: feet

| Screen size (diagonal) | Distance to screen (L) | | | | | | | | | | | | | Height from the edge of screen to center of lens (H) | | |
| | | | | | | | | | | Zoom | | Fixed-focus | | | | |
| | ET-D75LE6 Zoom lens | | ET-D75LE10 Zoom lens | | ET-D75LE20 Zoom lens | | ET-D75LE30 Zoom lens | | ET-D75LE40 Zoom lens | | ET-D75LE8 Zoom lens | | ET-D75LE50 Fixed-focus lens | Zoom lenses | | Fixed-focus lens |
| | | | | | | | | | | | | | | Except ET-D75LE6 | ET-D75LE6 | |
| [m] / [in] | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | | | | |
| 1.78 / 70 | 5.1 | 6.1 | 7.2 | 9.3 | 9.2 | 13.5 | 13.4 | 26.1 | 25.8 | 41.4 | 40.8 | 77.6 | 3.8 | -0.6 – 3.4 | -0.3 – 3.1 | 1.4 |
| 2.03 / 80 | 5.9 | 7.0 | 8.2 | 10.6 | 10.6 | 15.4 | 15.3 | 29.9 | 29.5 | 47.4 | 46.8 | 88.9 | 4.4 | -0.7 – 3.9 | -0.3 – 3.6 | 1.6 |
| 2.29 / 90 | 6.6 | 7.9 | 9.3 | 12.0 | 12.0 | 17.4 | 17.3 | 33.7 | 33.3 | 53.4 | 52.8 | 100.1 | 5.0 | -0.7 – 4.4 | -0.4 – 4.0 | 1.8 |
| 2.54 / 100 | 7.4 | 8.8 | 10.4 | 13.4 | 13.3 | 19.4 | 19.3 | 37.5 | 37.1 | 59.4 | 58.8 | 111.4 | 5.5 | -0.8 – 4.9 | -0.4 – 4.5 | 2.0 |
| 3.05 / 120 | 8.9 | 10.7 | 12.5 | 16.1 | 16.0 | 23.3 | 23.2 | 45.1 | 44.6 | 71.4 | 70.8 | 133.9 | 6.7 | -1.0 – 5.9 | -0.5 – 5.4 | 2.5 |
| 3.81 / 150 | 11.2 | 13.4 | 15.7 | 20.3 | 20.1 | 29.3 | 29.1 | 56.5 | 55.8 | 89.3 | 88.8 | 167.6 | 8.4 | -1.2 – 7.4 | -0.6 – 6.7 | 3.1 |
| 5.08 / 200 | 15.0 | 17.9 | 21.0 | 27.1 | 26.9 | 39.2 | 38.9 | 75.5 | 74.6 | 119.3 | 118.9 | 223.9 | 11.3 | -1.6 – 9.8 | -0.8 – 9.0 | 4.1 |
| 6.35 / 250 | 18.8 | 22.5 | 26.3 | 34.0 | 33.7 | 49.0 | 48.7 | 94.6 | 93.4 | 149.2 | 148.9 | 280.2 | 14.2 | -2.0 – 12.3 | -1.0 – 11.2 | 5.1 |
| 7.62 / 300 | 22.5 | 27.0 | 31.6 | 40.9 | 40.5 | 58.9 | 58.5 | 113.6 | 112.2 | 179.2 | 178.9 | 336.4 | 17.1 | -2.5 – 14.7 | -1.2 – 13.5 | 6.1 |
| 10.16 / 400 | 30.1 | 36.1 | 42.2 | 54.6 | 54.1 | 78.7 | 78.1 | 151.7 | 149.8 | 239.1 | 239.0 | 449.0 | 22.9 | -3.3 – 19.6 | -1.6 – 18.0 | 8.2 |
| 12.70 / 500 | 37.7 | 45.2 | 52.9 | 68.4 | 67.7 | 98.5 | 97.8 | 189.7 | 187.4 | 299.0 | 299.1 | 561.5 | 28.6 | -4.1 – 24.5 | -2.0 – 22.5 | 10.2 |
| 15.24 / 600 | 45.3 | 54.3 | 63.5 | 82.1 | 81.3 | 118.2 | 117.4 | 227.8 | 224.9 | 358.9 | 359.1 | 674.1 | 34.4 | -4.9 – 29.4 | -2.5 – 27.0 | 12.3 |
| 17.78 / 700 | 52.9 | 63.4 | 74.1 | 95.8 | 95.0 | 138.0 | 137.0 | 265.8 | 262.5 | 418.8 | 419.2 | – | 40.2 | -5.7 – 34.3 | -2.9 – 31.5 | 14.3 |
| 20.32 / 800 | 60.4 | 72.5 | 84.8 | 109.6 | 108.6 | 157.7 | 156.6 | 303.9 | 300.1 | 478.7 | 479.3 | – | 45.9 | -6.5 – 39.2 | -3.3 – 36.0 | 16.3 |
| 22.86 / 900 | 68.0 | 81.5 | 95.4 | 123.3 | 122.2 | 177.5 | 176.3 | 342.0 | 337.7 | 538.7 | 539.4 | – | 51.7 | -7.4 – 44.1 | -3.7 – 40.4 | 18.4 |
| 25.40 / 1000 | 75.6 | 90.6 | 106.0 | 137.1 | 135.8 | 197.3 | 195.9 | 380.0 | 375.2 | 598.5 | 599.4 | – | 57.5 | -8.2 – 49.0 | -4.1 – 44.9 | 20.4 |

- The value for L (distance to screen) varies slightly within ±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.

**As of December 2015**

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**Panasonic**

3-Chip DLP™ Projector

PT-**DW11K**

## Calculation of the projection distance

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

### Aspect ratio 16:9

**Zoom lenses**

| ET-D75LE6 | minimum | L (m) = (diagonal screen size in inches) × 0.0231 − 0.0566 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.0277 − 0.0736 |

| ET-D75LE10 | minimum | L (m) = (diagonal screen size in inches) × 0.0324 − 0.0857 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.0419 − 0.1085 |

| ET-D75LE20 | minimum | L (m) = (diagonal screen size in inches) × 0.0415 − 0.0832 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.0602 − 0.1162 |

| ET-D75LE30 | minimum | L (m) = (diagonal screen size in inches) × 0.0598 − 0.1131 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.1160 − 0.1765 |

| ET-D75LE40 | minimum | L (m) = (diagonal screen size in inches) × 0.1145 − 0.1577 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.1826 − 0.1615 |

| ET-D75LE8 | minimum | L (m) = (diagonal screen size in inches) × 0.1831 − 0.3862 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.3430 − 0.3598 |

**Fixed-focus lens**

| ET-D75LE50 | | L (m) = (diagonal screen size in inches) × 0.0176 − 0.0713 |

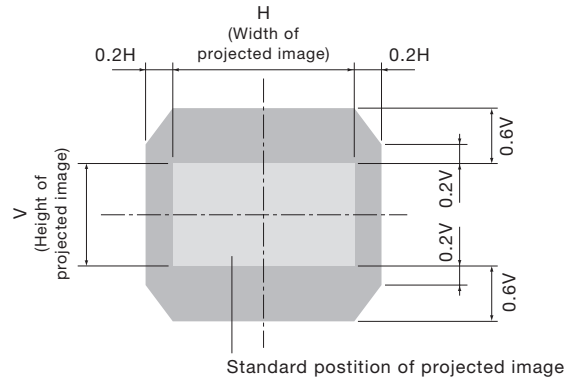• **Distances calculated with the above equations will include slight deviations.**

## 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**



Standard postition of projected image

**• When the ET-D75LE6 is mounted**
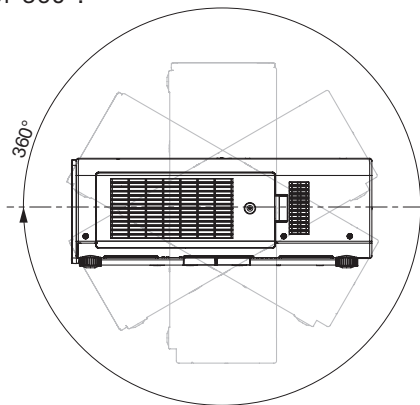


Standard postition of projected image
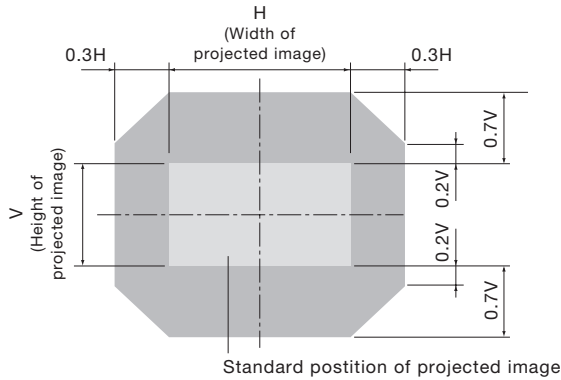
**NOTE: Because the ET-D75LE50 is a fixed short-throw lens, the lens shift function cannot be used with it.**

## Installable angle

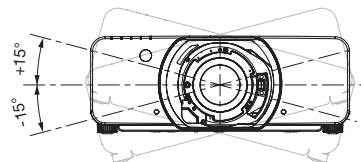Install the projector at an angle within the range shown below.

**• Vertical direction**
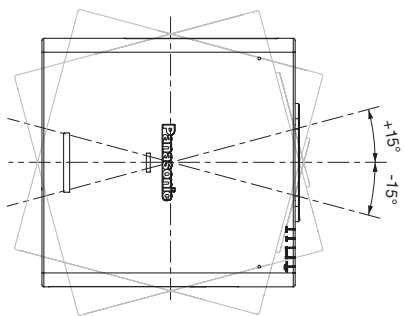The projector may be installed at a vertical angle of 360°.



**• Horizontal direction**
The projector may be installed at a horizontal angle of ±15°.



**• Vertical direction in portrait mode with the ET-LAD320P/LAD320PW mounted**
The projector may be installed at a vertical angle of ±15°.



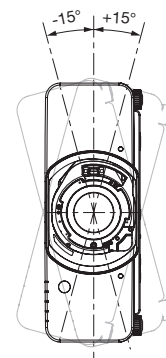**• Horizontal direction in portrait mode with the ET-LAD320P/LAD320PW mounted**
The projector may be installed at a horizontal angle of ±15°.



**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 1,366 × 768 pixels. If the display resolution of the input signal is different from the native resolution, image compression or expansion will be used to convert the input signal to a level within the native resolution.

| Display mode | Display resolution (dots)[1] | Scanning frequency H (kHz) | V (kHz) | Dot clock frequency (MHz) | Format |
|---|---|---|---|---|---|
| NTSC/NTSC4.43/PAL-M/PAL60 | 720 × 480i | 15.7 | 59.9 | – | VIDEO/S-VIDEO |
| PAL/PAL-N/SECAM | 720 × 576i | 15.6 | 50.0 | – | |
| 525i (480i) | 720 × 480i | 15.7 | 59.9 | 13.5 | RGB/YC$_B$C$_R$ |
| 625i (576i) | 720 × 576i | 15.6 | 50.0 | 13.5 | |
| 525i (480i) | 720(1440) × 480i [2] | 15.7 | 59.9 | 27.0 | HDMI/DVI-D |
| 625i (576i) | 720(1440) × 576i [2] | 15.6 | 50.0 | | |
| 525p (480p) | 720 × 483 | 31.5 | 59.9 | 27.0 | HDMI/DVI-D/ |
| 625p (576p) | 720 × 576 | 31.3 | 50.0 | | RGB/YC$_B$C$_R$ |
| 750 (720)/60p | 1280 × 720 | 45.0 | 60.0 | 74.3 | HDMI/DVI-D/ |
| 750 (720)/50p | | 37.5 | 50.0 | | RGB/YP$_B$P$_R$ |
| 1125 (1080)/60i | 1920 × 1080i | 33.8 | 60.0 | | |
| 1125 (1080)/50i | | 28.1 | 50.0 | | |
| 1125 (1080)/25p | 1920 × 1080 | 28.1 | 25.0 | | |
| 1125 (1080)/24p | | 27.0 | 24.0 | | |
| 1125 (1080)/24sF | 1920 × 1080i | 27.0 | 48.0 | | |
| 1125 (1080)/30p | 1920 × 1080 | 33.8 | 30.0 | | |
| 1125 (1080)/60p | | 67.5 | 60.0 | 148.5 | HDMI/DVI-D/ |
| 1125 (1080)/50p | | 56.3 | 50.0 | | RGB/YP$_B$P$_R$ |
| VGA400 | 640 × 400 | 31.5 | 70.1 | 25.2 | HDMI/DVI-D/RGB |
| | | 37.9 | 85.1 | 31.5 | |
| VGA480 | 640 × 480 | 31.5 | 59.9 | 25.2 | |
| | | 35.0 | 66.7 | 30.2 | |
| | | 37.9 | 72.8 | 31.5 | |
| | | 37.5 | 75.0 | 31.5 | |
| | | 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 | 70.0 | 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 only.

# PT-**DW11K**

| Display mode | Display resolution (dots) | Scanning frequency H (kHz) | V (kHz) | Dot clock frequency (MHz) | Format |
|---|---|---|---|---|---|
| 1280 × 720 | 1280 × 720 | 37.1 | 49.8 | 60.5 | HDMI/DVI-D/RGB |
| | | 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 | |
| | | 39.6 | 49.9 | 69.0 | |
| SXGA+ | 1400 × 1050 | 54.1 | 50.0 | 99.9 | |
| | | 64.0 | 60.0 | 108.0 | |
| | | 65.2 | 60.0 | 122.6 | |
| | | 65.3 | 60.0 | 121.8 | |
| | | 78.8 | 72.0 | 149.3 | |
| | | 82.2 | 75.0 | 155.9 | |
| WXGA+ | 1440 × 900 | 55.9 | 59.9 | 106.5 | |
| | | 46.3 | 49.9 | 86.8 | |
| UXGA60 | 1600 × 1200 | 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/RGB |
| | 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).**

**Panasonic**

### List of compatible 3D signals

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

| Display mode | Display resolution (dots)*1 | Scanning frequency H (kHz) | V (kHz) | Dot clock frequency (MHz) | HDMI Frame packing | HDMI Side by side*2 | HDMI Top and bottom | DVI Side by side*2 | DVI Top and bottom | DVI Line by line | DVI Frame sequential |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 750 (720)/60p | 1280 × 720 | 45.0 | 60.0 | 74.3 | Yes | Yes | Yes | Yes | Yes | Yes | – |
| 750 (720)/50p | | 37.5 | 50.0 | 74.3 | | | | | | | |
| 1125 (1080)/60i | 1920 × 1080i | 33.8 | 60.0 | 74.3 | | – | | | | – | |
| 1125 (1080)/50i | | 28.1 | 50.0 | 74.3 | | | | | | | |
| 1125 (1080)/25p | 1920 × 1080 | 28.1 | 25.0 | 74.3 | – | – | | | | | |
| 1125 (1080)/24p | | 27.0 | 24.0 | 74.3 | Yes | Yes | Yes | | | | |
| 1125 (1080)/24sF | 1920 × 1080i | 27.0 | 48.0 | 74.3 | – | – | – | | | | |
| 1125 (1080)/30p | 1920 × 1080 | 33.8 | 30.0 | 74.3 | | | | | | | |
| 1125 (1080)/60p | | 67.5 | 60.0 | 148.5 | | Yes | Yes | | | | |
| 1125 (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 | | | | | | | |
| | | 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 | | | | – | | | Yes |
| | | 92.6 | 120.0 | 161.6 | | | | | | | |
| 1280 × 768 | 1280 × 768 | 39.6 | 49.9 | 65.3 | | | | Yes | | | – |
| | | 47.8 | 59.9 | 79.5 | | | | | | | |
| | 1280 × 768 *3 | 47.4 | 60.0 | 68.3 | | | | | | | |
| 1280 × 800 | 1280 × 800 | 41.3 | 50.0 | 68.0 | | | | | | | |
| | | 49.7 | 59.8 | 83.5 | | | | | | | |
| | 1280 × 800 *3 | 49.3 | 59.9 | 71.0 | | | | | | | |
| MSXGA | 1280 × 960 | 60.0 | 60.0 | 108.0 | | | | | | | |
| SXGA | 1280 × 1024 | 52.4 | 50.0 | 88.0 | | | | | | | |
| | | 64.0 | 60.0 | 108.0 | | | | | | | |
| 1366 × 768 | 1366 × 768 | 47.7 | 59.8 | 85.5 | | | | | | | |
| | | 39.6 | 49.9 | 69.0 | | | | | | | |
| SXGA+ | 1400 × 1050 | 54.1 | 50.0 | 99.9 | | | | | | | |
| | | 64.0 | 60.0 | 108.0 | | | | | | | |
| | | 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 | | | | | | | |
| UXGA60 | 1600 × 1200 | 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 *3 | 66.6 | 59.9 | 138.5 | | | | | | | |
| WUXGA | 1920 × 1200 | 61.8 | 49.9 | 158.3 | | | | | | | |
| | 1920 × 1200 *3 | 74.0 | 60.0 | 154.0 | | | | | | Yes | |

*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).

| Display mode | Display resolution (dots)*1 | H (kHz) | V (kHz) | Dot clock freq. (MHz) | RGB1/RGB2 Side by side*2 | RGB1/RGB2 Top and bottom | RGB1/RGB2 Line by line | RGB1/RGB2 Frame sequential | SDI1/SDI2 Side by side*2 | SDI1/SDI2 Top and bottom | SDI1/SDI2 Line by line | HDMI & DVI Simultaneous | RGB1 & RGB2 Simultaneous | SDI1 & SDI2 Simultaneous | 3G-SDI Level B Simultaneous |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 750 (720)/60p | 1280 × 720 | 45.0 | 60.0 | 74.3 | Yes | Yes | Yes | – | Yes | Yes | Yes | Yes | Yes | Yes | Yes*3 |
| 750 (720)/50p | | 37.5 | 50.0 | 74.3 | | | | | | | | | | | |
| 1125 (1080)/60i | 1920 × 1080i | 33.8 | 60.0 | 74.3 | | | – | | | | – | | | | |
| 1125 (1080)/50i | | 28.1 | 50.0 | 74.3 | | | | | | | | | | | |
| 1125 (1080)/25p | 1920 × 1080 | 28.1 | 25.0 | 74.3 | | | | | | | | | | | |
| 1125 (1080)/24p | | 27.0 | 24.0 | 74.3 | | | | | | | | | | | |
| 1125 (1080)/24sF | 1920 × 1080i | 27.0 | 48.0 | 74.3 | | | | | | | | | | | |
| 1125 (1080)/30p | 1920 × 1080 | 33.8 | 30.0 | 74.3 | | | | | | | | | | | |
| 1125 (1080)/60p | | 67.5 | 60.0 | 148.5 | | | | | Yes*3 | Yes*3 | | | | – | – |
| 1125 (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 | | | | | | | | | | | |
| | | 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 | – | | | Yes | | | | | | | |
| | | 92.6 | 120.0 | 161.6 | | | | | | | | | | | |
| 1280 × 768 | 1280 × 768 | 39.6 | 49.9 | 65.3 | Yes | | | – | | | | | | | |
| | | 47.8 | 59.9 | 79.5 | | | | | | | | | | | |
| | 1280 × 768 *4 | 47.4 | 60.0 | 68.3 | | | | | | | | | | | |
| 1280 × 800 | 1280 × 800 | 41.3 | 50.0 | 68.0 | | | | | | | | | | | |
| | | 49.7 | 59.8 | 83.5 | | | | | | | | | | | |
| | 1280 × 800 *4 | 49.3 | 59.9 | 71.0 | | | | | | | | | | | |
| MSXGA | 1280 × 960 | 60.0 | 60.0 | 108.0 | | | | | | | | | | | |
| SXGA | 1280 × 1024 | 52.4 | 50.0 | 88.0 | | | | | | | | | | | |
| | | 64.0 | 60.0 | 108.0 | | | | | | | | | | | |
| 1366 × 768 | 1366 × 768 | 47.7 | 59.8 | 85.5 | | | | | | | | | | | |
| | | 39.6 | 49.9 | 69.0 | | | | | | | | | | | |
| SXGA+ | 1400 × 1050 | 54.1 | 50.0 | 99.9 | | | | | | | | Yes | Yes | | |
| | | 64.0 | 60.0 | 108.0 | | | | | | | | | | | |
| | | 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 | | | | | | | | | | | |
| UXGA60 | 1600 × 1200 | 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 *4 | 66.6 | 59.9 | 138.5 | | | | | | | | | | | |
| WUXGA | 1920 × 1200 | 61.8 | 49.9 | 158.3 | | | | | | | | Yes | Yes | | |
| | 1920 × 1200 *4 | 74.0 | 60.0 | 154.0 | | | | Yes | | | | | | | |

*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).

**Panasonic**

## 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.
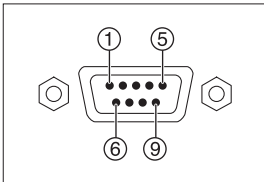
### Pin assignments and signal names
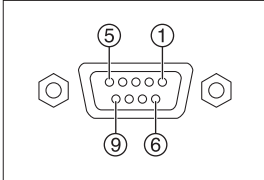
| No. | Signal name | Description | No. | Signal name | Description |
|-----|-------------|-------------|-----|-------------|-------------|
| 1 | – | NC | 6 | – | NC |
| 2 | TXD | Send data | 7 | CTS | Connected internally |
| 3 | RXD | Receive data | 8 | RTS | Connected internally |
| 4 | – | NC | 9 | – | NC |
| 5 | GND | Ground | | | |

**D-sub 9-pin (female) Serial input**

### Pin assignments and signal names

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

**D-sub 9-pin (male) Serial output**

### Communication conditions (factory setting)

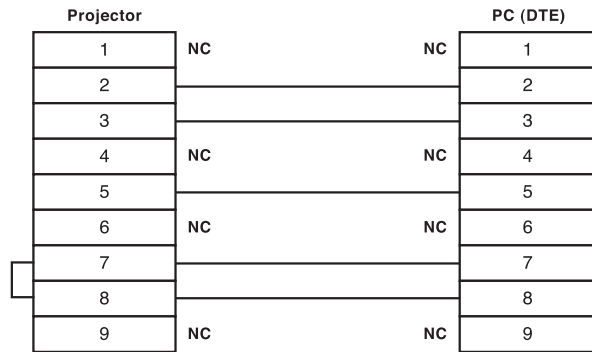| | |
|---|---|
| Signal level | RS-232C-compliant |
| Synchronization method | Start-stop synchronization |
| Baud rate | 9,600 bps |
| Parity | None |
| Character length | 8 bits |
| Stop bit | 1 bit |
| X parameter | None |
| S parameter | None |

### 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.

| STX | A D | I1 I2 | ; | C1 C2 C3 | : | P1 P2 ... Pn | ETX |
|-----|-----|-------|---|----------|---|--------------|-----|

**Start**
(1 byte)

**(2 byte)**

**ID: 2 characters
(2 bytes)
01 to 64: Address number
0A to 0Z: Group ID
ZZ: All units (ID ALL)**

**ID designator**

**Semicolon
(1 byte)**

**Command
(3 bytes)
(Control and/or query commands)**

**Colon
(1 byte)**

**Parameters
(undefined length)**

**End
(1 byte)**
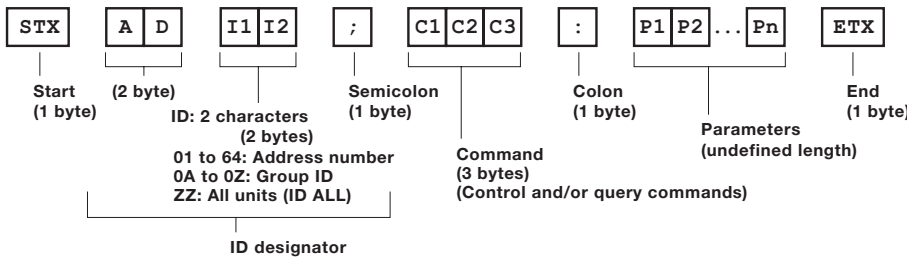
**CAUTION**
• It may not be possible to send or receive commands for about 10 to 60 seconds when the lamp is first turned on. If this occurs, wait for 60 seconds, then try sending or receiving again.
• When sending multiple commands, be sure to wait for at least 0.5 second after receiving a response 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.
• When using two or more units:
  1) Set different IDs for each unit.
  2) Designate only one unit as RESPONSE (ID ALL) ON and the rest as RESPONSE (ID ALL) OFF.
  3) Each group should have only one RESPONSE (ID GROUP) ON and the rest should be RESPONSE (ID GROUP) OFF.

3-Chip DLP™ Projector

# PT-**DW11K**

## 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 |
| 8 | | | 8 |
| 9 | NC | NC | 9 |

## Control commands

| Command : Parameter | Function | | Callback |
|---|---|---|---|
| `PON` | POWER (STANDBY) | Standby power on | `PON` |
| `POF` | | Standby power off | `POF` |
| `OSH:0` | SHUTTER | Shutter off | `OSH:0` |
| `OSH:1` | | Shutter on | `OSH:1` |
| `IIS:SD1` | INPUT SELECT | HDMI | `IIS:HD1` |
| `IIS:DVI` | | DVI | `IIS:DVI` |
| `IIS:RG1` | | RGB 1 | `IIS:RG1` |
| `IIS:RG2` | | RGB 2 | `IIS:RG2` |
| `IIS:VID` | | Video | `IIS:VID` |
| `VXX:RYC1=+00000` | RGB INPUT SETTING | RGB/Y・PB・PR | `VXX:RYC1=+00000` |
| `VXX:RYC1=+00001` | | S-Video | `VXX:RYC1=+00001` |
| `LPM:0` | LAMP SELECT | Dual (two lamps) | `LPM:0` |
| `LPM:1` | | Single lamp | `LPM:1` |
| `LPM:2` | | Lamp 1 | `LPM:2` |
| `LPM:3` | | Lamp 2 | `LPM:3` |
| `OLP:0` | Lamp power | High | `OLP:0` |
| `OLP:8` | | Middle | `OLP:8` |
| `OLP:1` | | Eco | `OLP:1` |
| `VSE:1` | ASPECT RATIO SWITCHING | Standard/VID Auto | `VSE:1` |
| `VSE:2` | | 4:3 | `VSE:2` |
| `VSE:5` | | 16:9 | `VSE:5` |
| `VSE:6` | | HV fit | `VSE:6` |
| `VSE:9` | | H fit | `VSE:9` |
| `VSE:10` | | V fit | `VSE:10` |
| `OPP:0` | P IN P SELECT | 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` |
| `VPM:DIC` | | DICOM | `VPM:DIC` |
| `VXX:DLVI0=+00000` | SYSTEM DAYLIGHT VIEW | Off | `VXX:DLVI0=+00000` |
| `VXX:DLVI0=+00001` | | 1 | `VXX:DLVI0=+00001` |
| `VXX:DLVI0=+00002` | | 2 | `VXX:DLVI0=+00002` |
| `VXX:DLVI0=+00003` | | 3 | `VXX:DLVI0=+00003` |
| `OTE:4` | COLOR TEMPERATURE | User 1 | `OTE:4` |
| `OTE:9` | | User 2 | `OTE:9` |
| `OTE:10` | | Default | `OTE:10` |
| `OTE:p1p2p3p4` | | 3200 K – 9300 K (100 K steps) | `OTE:p1p2p3p4` |
| `TSD:y1y2y3y4m1m2d1d2w` | DATE | Date setting | `TSD:y1y2y3y4m1m2d1d2w` |
| `TST:h1h2m1m2s1s2` | TIME | Time setting | `TST:h1h2m1m2s1s2` |
| `OOS:0` | ON SCREEN | On-screen display off | `OOS:0` |
| `OOS:1` | | On-screen display on | `OOS:1` |

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

\*  **When a command that cannot be executed, the projector will send an ER401 command in reply.**

3-Chip DLP™ Projector

# PT-**DW11K**

## Status request commands

| Command:Parameter | Function | Callback | Description |
|---|---|---|---|
| QPW | Main power status | 000 | Off |
| | | 001 | On |
| QSH | Shutter function status | 0 | Off |
| | | 1 | On |
| QIN | Input signal status | HD1 | HDMI |
| | | DVI-D | DVI |
| | | RG1 | RGB 1 |
| | | RG2 | RGB 2 |
| | | VID | Video |
| QSL | Lamp operation mode status | 0 | Dual (two lamps) |
| | | 1 | Single lamp |
| QLP | Lamp power mode status | 0 | High |
| | | 8 | Middle |
| | | 1 | Eco |
| QPP | P in P status | 0 | Off |
| | | 1 | User 1 |
| | | 2 | User 2 |
| | | 3 | User 3 |
| QPM | Picture mode status | NAT | Natural |
| | | STD | Standard |
| | | DYN | Dynamic |
| | | CIN | Cinema |
| | | GRA | Graphic |
| | | DIC | DICOM |
| QVX:DLVI0 | System daylight view status | DLVI0=+00000 | Off |
| | | DLVI0=+00001 | 1 |
| | | DLVI0=+00002 | 2 |
| | | DLVI0=+00003 | 3 |
| QST | Projector run time | p1p2p3p4p5 | 00000h–99999h |
| Q$L:1 | Lamp 1 run time | p1p2p3p4 | 0000h–9999h |
| Q$L:2 | Lamp 2 run time | p1p2p3p4 | 0000h–9999h |
| QTM:0 | Temperature status | p1p2p3p4/p5p6p7p8[1] | p0 = Intake air |
| QTM:1 | | | p1 = Around lamp |
| QTM:2 | | | p2 = Optics module |
| QGD | Date setting status | y1y2y3y4m1m2d1d2w | yyyymmdd (day of week)[2] |
| QGT | Time setting status | h1h2m1m2s1s2 | hhmmss [3] |
| QOS | On-screen display status | 0 | Off |
| | | 1 | On |

[1] p1p2p3p4: Celsius (°C), p5p6p7p8: Fahrenheit (°F)

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

[3] Set the date and time to UTC (universal time coordinated).

**\*  When a wrong command is sent, the projector will send an ER401 or ER402 command in reply.**

## Command example

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

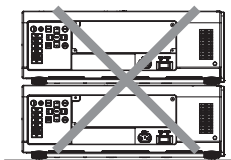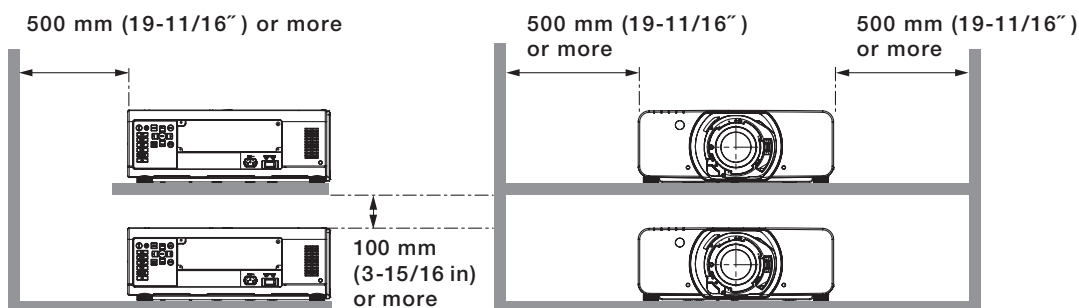| STX | ADZZ | ; | OOS | : | 0 | ETX |
|---|---|---|---|---|---|---|
| Start | ID Address | | Command | | Parameter | End |

**NOTE: When sending commands without parameters, a colon (:) is not necessary.**
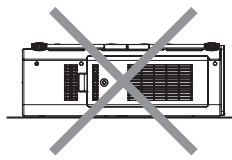
### Notes on projector placement and operation

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. If two units must be stacked for backup use in ordinary projection, use a method as shown below and provide ample space between the units to ensure that exhaust heat does not accumulate near the intake opening or around the units. Dual stacked projection is not recommended.
4. 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.
5. 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.
6. If the projector is installed in an enclosed space, ensure that the temperature of the air surrounding the projector is between 0 °C and 45 °C (32 °F and 104 °F). Also make sure that the projector's intake and exhaust openings are not blocked. Even though the air surrounding the projector is 40 °C (104 °F) or less, if hot exhaust air accumulates inside the space, it may cause the projector's protective circuit to interrupt projector operation. Pay particular attention to the surrounding temperature conditions when planning the installation.
7. If the projector is not to be set on the floor using adjuster legs, install it by using the five ceilingmount screw holes (screw diameter: M6, length of each screw hole in the projector: 16 mm (5/8˝)). Provide a space of 5 to 10 mm (3/16˝ to 13/32˝) between the projector and the mounting surface by inserting metal spacers.
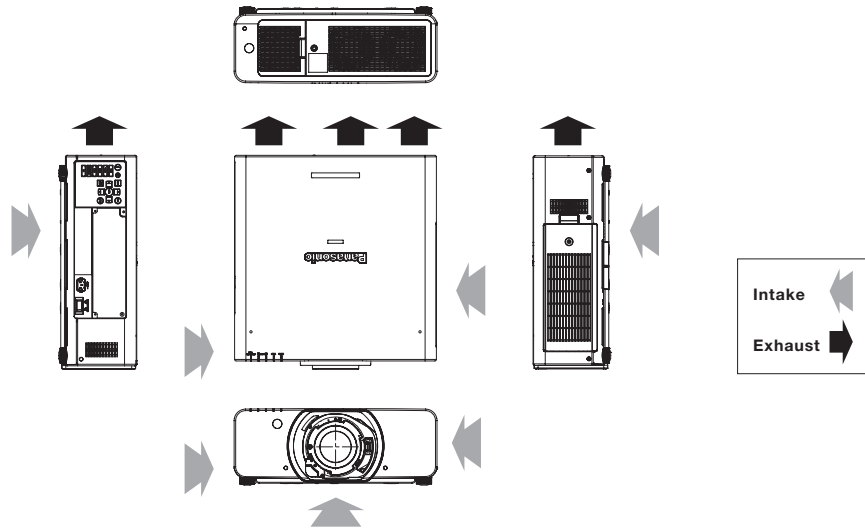
**500 mm (19-11/16˝ ) or more**   **500 mm (19-11/16˝ ) or more**   **500 mm (19-11/16˝ ) or more**

**100 mm (3-15/16 in) or more**

**Do not stack projector units directly on top of one another.**

**Do not support the projector unit by its top while it is in use.**

**Direction of air intake and exhaust**



| Intake | ◄ |
| Exhaust | ➡ |

**Operating the projector continuously**

1. If the projector is to be operated continuously one week, use the dual-lamp optical system's alternating lamp operation (lamp relay) function. The projector cannot be operated continuously one week in dual-lamp mode. Allow a minimum of two hours per day of non-operation time for each lamp if the projector is to be operated continuously for more than one week.

2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.