## **Panasonic**

## PRELIMINARY BROCHURE

PT-DZ21k2, PT-DS20k2

PT-DW17k2, PT-DZ16k2



### Specifications (Tentative)

| Power consu  |  |   | PT-DZ21K2  | PT-DS20K2   | PT-DW17K2   | PT-DZ16K2  |  |  |
|--|--|---|--|---|---|--|--|--|
|  | Power supply   |   | 200-240 V AC, 50/60 Hz   |   |   |  |  |  |
|  |  |   | <2300 W (TBD) (0.3 W with Standby Mode set to Eco*   | 1, 4 W with Standby Mode set to Normal)   |   |  |  |  |
| DLP™ chip  | Panel siz  | ze  | 24.4 mm (0.96 in) diagonal (16:10 aspect ratio)  | 24.1 mm (0.95 in) diagonal (4:3 aspect ratio)   | 21.6 mm (0.85 in) diagonal (16:9 aspect ratio)  | 24.1 mm (0.95 in) diagonal (16:9 aspect ratio)   |  |  |
|  | Display  | method  | DLP™ chip × 3, DLP™ projection system  |   | •   |  |  |  |
|  | Pixels   |   | 2,304,000 (1920 × 1200) × 3,   | 1,470,000 (1400 × 1050) × 3,  | 1,049,088 (1366 × 768) × 3,   | 2,073,600 (1920 × 1080) × 3,   |  |  |
|  |  |   | total of 6,912,000 pixels  | total of 4,410,000 pixels   | total of 3,147,264 pixels   | total of 6,220,800 pixels  |  |  |
| Refresh Rate   |  |   | 120 Hz* <sup>2</sup>   |   | 60 Hz* <sup>2</sup>   | 120 Hz* <sup>2</sup>   |  |  |
| _ens   |  |   | Optional powered zoom and fixed-focus lenses   |   |   |  |  |  |
| Lamp   | Normal   |   | UHM lamp x 4, replacement cycle of up to 3,000 hours*3   |   |   |  |  |  |
|  | Portrait   |   | UHM lamp x 4, replacement cycle of up to 700 hours (TI   | BD)   |   | _  |  |  |
| Screen size (diagonal)   |  |   | 1.78–25.4 m (70–1000 in), 1.78–7.62 m (70–300 in) with the ET-D75LE5, 3.05–15.24 m (120–600 in) with the ET-D75LE90, 16:10 aspect ratio  | 1.78–25.4 m (70–1000 in), 1.78–7.62 m (70–300 in) with the ET-D75LE5, 3.05–15.24 m (120–600 in) with the ET-D75LE90, 4:3 aspect ratio   | 1.78–25.4 m (70–1000 in), 1.78–7.62 m (70–300 ir<br>3.05–15.24 m (120–600 in) with the ET-D75LE90, 1                                      | n) with the ET-D75LE5,<br>6:9 aspect ratio   |  |  |
| Brightness*4   |  |   | 20,000 lm  |   | 17,000 lm   | 16,000 lm  |  |  |
| Center-to-co   |  | mitv*4  | 90 %   |   |   |  |  |  |
| Contrast*4   |  | •   | 10,000:1 (full on/off, with dynamic iris set to "3")   |   |   |  |  |  |
| Resolution   |  |   | 1920 × 1200 pixels   | 1400 × 1050 pixels  | 1366 × 768 pixels   | 1920 × 1080 pixels   |  |  |
| Scanning   | SDI  | SD-SDI  | SMPTE ST 259 compliant, [YCBCR 4:2:2 10-bit] 480i, 5   |   |   | SMPTE ST 259 compliant, [YCBCR 4:2:2 10-bit] 480i,   |  |  |
| frequency  | ODI  | HD-SDI  | SMPTE ST 292 compliant, [YGBCR 4:2:2 10-bit] 720/50  |   |   | SMPTE ST 292 compliant, [YCBCR 4:2:2 10-bit]   |  |  |
| rrequency  |  |   | 1080/24p, 1080/24sF, 1080/30p  |   | -   | 720/50p, 720/60p, 1035/60i, 1080/50i, 1080/60<br>1080/25p, 1080/24p, 1080/24sF, 1080/30p   |  |  |
|  |  | 3G-SDI  | SMPTE ST 424 compliant, [YPBPR 4:2:2 10-bit] 1080/<br>[RGB 4:4:4 12-bit/10-bit] 1080/50i, 1080/60i, 1080/2   | 25p, 1080/24p, 1080/24sF, 1080/30p  | -   | SMPTE ST 424 compliant, [YPBPR 4:2:2 10-bit] 1080/<br>1080/60p, [RGB 4:4:4 12-bit/10-bit] 1080/50i, 1080<br>1080/25p, 1080/24p, 1080/24sF, 1080/30p        |  |  |
|  |  | Dual link HD-SDI  | SMPTE ST 372 compliant, [RGB 4:4:4 12-bit/10-bit] 1 1080/30p, [X 'Y 'Z ' 4:4:4 12-bit] 2048 × 1080/24p,  | 2048 × 1080/24sF  |   |  |  |  |
|  |  | Dual link 3G-SDI  | SMPTE ST 425 compliant, [YPBPR 4:4:4 12-bit/10-bit]<br>2048 x 1080/50p, 2048 x 1080/48p, [RGB 4:4:4 12-<br>2048 x 1080/50p, 2048 x 1080/48p  | 1080/60p, 1080/50p, 2048 x 1080/60p,<br>-bit/10-bit] 1080/60p, 1080/50p, 2048 x 1080/60p,   |   | _  |  |  |
|  | HDMI/DVI-D/DIGITAL LINK  |   | 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p, VGA (640 × 480)—WUXGA* <sup>5</sup> (1920 × 1200), compatible with non-interfaced signals only, dot clock: 25–162 MHz   |   |   |  |  |  |
|  | DVI-D/HDMI simultaneous input  |   | 1920 x 1200p, 1920 x 1080p, 1400 x 1050p, 1366 x 768p, 120 Hz/100 Hz   |   |   |  |  |  |
|  | RGB  |   | FH: 15–100 kHz, TV: 24–120 Hz, dot clock: 13.5–162 MHz   |   |   |  |  |  |
|  | YPBPR (YCBCR)  |   | Ht 1.5.75 kHz, № 60 tt [4801 (6256)], Ht 37.50 kHz, № 50 tt [720 (750)(550), Ht 27.00 ktz, № 24 tt [1080 (1125)(240), Ht 31.50 kHz, № 60 tt [1080 (1125)(240), Ht 31.75 kHz, № 60 tt [1080 (1125)(400), Ht 32.75 kHz, № 60 tt [1080 (1125)(400),   |   |   |  |  |  |
|  | Video / Y/C  |   | ftl: 15.75 kHz/15.63 kHz, fV: 50 Hz/60 Hz [NTSC/NTSC4.43/PAL/PAL60/PAL-M/SECAM]  |   |   |  |  |  |
|  | video / 1  |   |  |   |   |  |  |  |
| Optical<br>axis shift*6  |  | from center of screen)  | ±55 % (±44 % with the ET-D75LE6, +73 - 78 % with the D75LE90) (powered)  | ±50 % (±40 % with the ET-D75LE6, +71 % [fixed] with the D75LE90) (powered)  | ±70 % (±60 % with the ET-D75LE6, +78 – 96 % with the D75LE90) (powered)   | ±60 % (±50 % with the ET-D75LE6, +75 – 88 % with the D75LE90) (powered)  |  |  |
|  | Vertical (   | from center of screen) al (from center of screen)   |  |   |   |  |  |  |
| axis shift*6   | Vertical (   | al (from center of screen)  | with the D75LE90) (powered)<br>±20 % (±15 % with the ET-D75LE6, ±6 %   | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, ±0 %  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, -13 - +27 %   | with the D75LE90) (powered)<br>±20 % (±15 % with the ET-D75LE6, -12 - +14 %  |  |  |
| axis shift* <sup>6</sup><br>Keystone cor   | Vertical ( Horizont  | al (from center of screen)  | with the D75LE90) (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90) (powered)  Vertical: ±40 °, horizontal: ±15 °   | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, ±0 %  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, -13 - +27 %   | with the D75LE90) (powered)<br>±20 % (±15 % with the ET-D75LE6, -12 - +14 %  |  |  |
| axis shift*6  Keystone cor  Keystone cor   | Vertical ( Horizont rrection ran   | al (from center of screen)  nge nge with the  | with the D75LE90) (powered) ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90) (powered)  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, ±0 %  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, -13 - +27 %   | with the D75LE90) (powered)<br>±20 % (±15 % with the ET-D75LE6, -12 - +14 %  |  |  |
| exis shift*6  Keystone cor  Keystone cor  pptional upgr  | Vertical ( Horizont rrection ran   | al (from center of screen)  nge nge with the  | with the D75LE90) (powered) ±20 % (±15 % with the ET-075LE6, ±6 % with the D75LE90) (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, ±0 %  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, -13 - +27 %   | with the D75LE90) (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  |  |  |
| Keystone cor<br>Keystone cor<br>Keystone cor<br>optional upgr  | Vertical ( Horizont  rrection rar  rrection rar  rade kit ET-  | al (from center of screen)  nge nge with the  | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90 (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, ±0 %  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, -13 - +27 %   | with the D75LE90 (powered) ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  — Ceiling/floor, front/rear                           |  |  |
| exis shift*6  Keystone cor  Keystone cor  pptional upgr  nstallation   | Vertical ( Horizont rection rar rection rar rade kit ET-   | al (from center of screen)  ige  ige with the  -UK20  | with the D75LE90) (powered) ±20 % (£15 % with the ET-D75LE6, ±6 % with the D75LE90) (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)   | with the D75LE90) (powered)  ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, -13 - +27 %   | with the D75LE90) (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  |  |  |
| exis shift*6  Keystone cor  Keystone cor  pptional upgr  nstallation   | Vertical ( Horizont  Trection ran  Trection ran  Trade kit ET-  SDI IN  DVI-D IN   | al (from center of screen)  ige  ige with the  -UK20  | with the D75LE90) (powered)  ±20 % (£15 % with the T-D75LE6, ±6 % with the D75LE90) (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/filoor, front/rear, portrait  BNC x 2 (3G/HD/SD-SDI)  DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with  | with the D75LE90) (powered)  ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, -13 - +27 %   | with the D75LE90 (powered) ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  — Ceiling/floor, front/rear                           |  |  |
| exis shift*6  Keystone cor  Keystone cor  pptional upgr  nstallation   | Vertical ( Horizont  Trection ran  Trection ran  Trade kit ET:  SDI IN  DVI-D IN  HDMI IN  | al (from center of screen)  ige  ige with the  -UK20  | with the D75LE90) (powered)  ±20 % (£15 % with the FT-D75LE6, ±6 % with the D75LE90) (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDCP)  | with the D75LE90) (powered)  ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, -13 - +27 %   | with the D75LE90 (powered) ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  — Ceiling/floor, front/rear                           |  |  |
| exis shift*6  Keystone cor  Keystone cor  pptional upgr  nstallation   | Vertical ( Horizont  Horizont rarection rar  rrection rar  rade kit ET-  SDI IN  DVI-D IN  HDMI IN  RGB 1 IN   | al (from center of screen) ige uge with the UK20  | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90) (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SD)  DV-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDCP)  BNC × 5 (RGB/YP8PR/VIDEO/YC × 1)   | with the D75LE90) (powered)  ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  | with the D75LE90) (powered)<br>±30 % (±20 % with the ET-D75LE6, -13 - +27 %   | with the D75LE90 (powered) ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90 (powered)  — Ceiling/floor, front/rear                            |  |  |
| exis shift*6  Keystone cor  Keystone cor  pptional upgr  nstallation   | Vertical ( Horizont  rection rar  rection rar  rade kit ET:  SDI IN  DVI-D IN  HDMI IN  RGB 1 IN  RGB 2 IN   | al (from center of screen)  ge ge with the -UK20  | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90 (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDCP)  BNC × 5 (RGB/YPBPR/VIDED/VC × 1)  D-sub HD 15-pin (female) × 1 (RGB/YPBPR × 1)   | with the D75LE90) (powered)  ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)                       | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  —  Ceiling/floor, front/rear  BNC x 1 (3G/HD/SD-SDI) |  |  |
| exis shift*6  Keystone cor  Keystone cor  pptional upgr  nstallation   | Vertical ( Horizont  Trection rar  Trection rar  Trade kit ET:  SDI IN  DVI-D IN  HDMI IN  RGB 1 IN  RGB 2 IN  3D SYNO   | al (from center of screen) uge uge with the -UK20   | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90) (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SD)  DV-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDCP)  BNC × 5 (RGB/YP8PR/VIDEO/YC × 1)   | with the D75LE90) (powered)  ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)                       | with the D75LE90 (powered) ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90 (powered)  — Ceiling/floor, front/rear                            |  |  |
| exis shift*6  Keystone cor  Keystone cor  pptional upgr  nstallation   | Vertical ( Horizont  rection rar  rection rar  rade kit ET:  SDI IN  DVI-D IN  HDMI IN  RGB 1 IN  RGB 2 IN   | al (from center of screen) uge uge with the -UK20   | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90 (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDCP)  BNC × 5 (RGB/YPBPR/VIDED/VC × 1)  D-sub HD 15-pin (female) × 1 (RGB/YPBPR × 1)   | with the D75LE90) (powered)  ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)                       | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  —  Ceiling/floor, front/rear  BNC x 1 (3G/HD/SD-SDI) |  |  |
| Keystone cor<br>Keystone cor<br>Keystone cor<br>optional upgr  | Vertical ( Horizont  Trection rar  Trection rar  Trade kit ET:  SDI IN  DVI-D IN  HDMI IN  RGB 1 IN  RGB 2 IN  3D SYNO   | al (from center of screen) gge gge with the UK20  | with the D75LE90) (powered)  ±20 % (£15 % with BET-D75LE6, ±6 % with the D75LE90) (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/filoor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMP)  BNC × 5 (RGB/YP8Pa/VIDEO/YC × 1)  DNL > 5 (RGB/YP8Pa/VIDEO/YC × 1)  BNC × 1 (3D timing signal)   | with the D75LE90) (powered)  ±30 % (±20 % with the E7-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  HDCP, compatible with single link only)   | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)                       | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  —  Ceiling/floor, front/rear  BNC x 1 (3G/HD/SD-SDI) |  |  |
| exis shift*6  Keystone cor Keystone cor optional upgr nstallation  | Vertical ( Horizont Trection rar Trection ra | al (from center of screen) ige ige with the -UK20  I I I C IN/OUT C OUT                                   | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90) (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SD)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDCP)  BNC × 5 (RGB/YPBPR/VIDEO/YC × 1)  D-sub HD 15-pin (female) × 1 (RGB/YPBPR × 1)  BNC x 1 (30 timing signal)  BNC x 1 (30 timing signal)  D-sub 9-pin (female) × 1 for external control (RS-2320)   | with the D75LE90) (powered)  ±30 % (±20 % with the E7-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  HDCP, compatible with single link only)   | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)                       | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  —  Ceiling/floor, front/rear  BNC x 1 (3G/HD/SD-SDI) |  |  |
| Keystone cor<br>Keystone cor<br>Keystone cor<br>optional upgr  | SDI IN DVI-D IN HDMI IN RGB 1 IN 3D SYNG SERIAL I SERIAL I   | al (from center of screen)  ge ge with the -UK20  I I I C IN/OUT C OUT N                                  | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90 (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDCP)  BNC × 5 (RGB/YPBPR/VIDED/YC × 1)  D-sub HD 15-pin (female) × 1 (RGB/YPBPR × 1)  BNC x 1 (3D timing signal)  BNC x 1 (3D timing signal)  SNC x 1 (3D timing signal)  | with the D75LE90) (powered)  ±30 % (±20 % with the E7-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  HDCP, compatible with single link only)   | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)                       | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  —  Ceiling/floor, front/rear  BNC x 1 (3G/HD/SD-SDI) |  |  |
| Keystone cor<br>Keystone cor<br>Keystone cor<br>optional upgr  | Vertical ( Horizont rection rar rade kit ET- SDI IN DVI-D IN HDMI IN RGB 1 IN RGB 2 IN 3D SYNO 3D SYNO SERIAL I SERIAL C REMOTE  | al (from center of screen)  ige ige with the -UK20  I I I I I I I I I I I I I I I I I I                   | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90 (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDCP)  BNC × 5 (RGB/YPBPA/VIDED/VC × 1)  D-sub HD 15-pin (female) × 1 (RGB/YPBPR × 1)  BNC × 1 (3D timing signal)  BNC × 1 (3D timing signal)  SNB × 10 (3D timing signal)  SNB × 1 (3D timing signal)   | with the D75LE90) (powered)  ±30 % (±20 % with the E7-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  HDCP, compatible with single link only)   | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)                       | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  —  Ceiling/floor, front/rear  BNC x 1 (3G/HD/SD-SDI) |  |  |
| xis shift*6  Keystone cor Keystone cor pptional upgr   | Vertical ( Horizont rection rar rection rar rade kit ET:  SDI IN DVI-D IN HDMI IN RGB 1 IN RGB 2 IN 3D SYNG SERIAL I SERIAL CREMOTE REMOTE   | al (from center of screen) age age with the -UK20  I I I INVOUT COUT N DOUT I I IN I OUT                  | with the D75LE90 (powered)  ±20 % (£15 % with the ET-D75LE6, ±6 % with the D75LE90 (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SD)  DVI-D 24-pin × 1 (DVI +10 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDCP)  BNC × 5 (RGB/YPBPN/DED/YC × 1)  D-sub HD 15-pin (reneale) × 1 (RGB/YPBPR × 1)  BNC x 1 (3D timing signal)  D-sub 9-pin (male) × 1 for external control (RS-2320 D-sub 9-pin (male) × 1 for link control  M3 × 1 for wired remote control  M3 × 1 for wired remote control  M3 × 1 for wired remote control  | with the D75LE90) (powered)  ±30 % (±20 % with the E7-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  HDCP, compatible with single link only)   | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)                       | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 9 with the D75LE90) (powered)  — Ceiling/floor, front/rear BNC x 1 (3G/HD/SD-SDI)   |  |  |
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| Keystone cor<br>Keystone cor<br>Keystone cor<br>potional upgi<br>Installation<br>Terminals   | Horizont rection rar rade kit ET:  SDI IN DVI-D IN HDMI IN RGB 1 IN RGB 2 IN 3D SYNC 3D SYNC SERIAL I SERIAL C REMOTE REMOTE LAN/DIG   | al (from center of screen)  ge ge with the -UK20  I I I III/OUT C OUT N DUT I I IN 1 OUT E I IN ITAL LINK | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90 (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Dven Coordinat, compatible with HDMI 19-pin × 1 (3D timing signal)  BNC × 1 (3D timing signal)  D-sub 9-pin (female) × 1 for external control (RS-232C)  D-sub 9-pin (female) × 1 for link control  M3 × 1 for wired remote control  M3 × 1 for link control (for wired remote control)  D-sub 9-pin (female) × 1 for external control (parallel)  RJ-45 × 1 for network, D(GITAL LINK connection, 100)  | with the D75LE90) (powered)  ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  HDCP, compatible with single link only)  C compliant)  Base-TX, compatible with Art-Net, PJLink <sup>TM</sup> (class 1), D  | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)  —                    | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 9 with the D75LE90) (powered)  — Ceiling/floor, front/rear BNC x 1 (3G/HD/SD-SDI)   |  |  |
| axis shift*6 Keystone cor Keystone cor Optional upgi Installation Terminals  Cabinet mate  | Horizont rection rar rade kit ET:  SDI IN DVI-D IN HDMI IN RGB 1 IN RGB 2 IN 3D SYNG 3D SYNG SERIAL I SERIAL G REMOTE REMOTE LAN/DIG   | al (from center of screen)  ge ge with the -UK20  I I I III/OUT C OUT N DUT I I IN 1 OUT E I IN ITAL LINK | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90 (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (DVED 26 COV)  BNC × 5 (RGB/YPBPR/VIDED/VC × 1)  D-sub HD 15-pin (female) × 1 (RGB/YPBPR × 1)  BNC x 1 (3D timing signal)  BNC x 1 (3D timing signal)  BNC x 1 for ink control (reader) x 1 for external control (RS-232C)  D-sub 9-pin (female) × 1 for link control  M3 × 1 for wired remote control  M3 × 1 for wired remote control  M3 × 1 for ink control (for wired remote control)  D-sub 9-pin (female) × 1 for external control (parallel)  RJ-45 × 1 for network, DIGITAL LINK connection, 1001  Molded plastic   | with the D75LE90] (powered) ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90] (powered)  HDCP, compatible with single link only)  C compliant)  Base-TX, compatible with Art-Net, PJLink™ (class 1), D  | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)  —                    | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  —  Ceiling/floor, front/rear  BNC x 1 (3G/HD/SD-SDI) |  |  |
| xis shift*6  Keystone cor Keystone cor Keystone cor Difficulty in the cor  Cabinet mate  Cabinet mate  Dimensions ( Weight*7)  | Vertical ( Horizont  rection ran RGB 1 IN RGB 1 IN RGB 1 IN RGB 1 IN RGB 2 IN 3D SYNG 3D SYNG SERIAL I SERIAL C REMOTE REMOTE REMOTE REMOTE LAN/DIG SERIAL C REMOTE REMO | al (from center of screen)  ge ge with the -UK20  I I I III/OUT C OUT N DUT I I IN 1 OUT E I IN ITAL LINK | with the D75LE90 (powered)  ±20 % (=15 % with the ET-D75LE6, ±6 % with the D75LE90 (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3C/HD/SD-SD)  DV-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin (100 to 100 to | with the D75LE90] (powered) ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90] (powered)  HDCP, compatible with single link only)  C compliant)  Base-TX, compatible with Art-Net, PJLink™ (class 1), D  | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)  —                    | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 % with the D75LE90) (powered)  —  Ceiling/floor, front/rear  BNC x 1 (3G/HD/SD-SDI) |  |  |
| Keystone cor<br>Keystone cor<br>Keystone cor<br>optional upgi<br>Installation<br>Terminals  Cabinet mate Dimensions ( Weight** Operation no  | Horizont Horizont Frection rar Frection Frecti | al (from center of screen)  ge ge with the -UK20  I I I III/OUT C OUT N DUT I I IN 1 OUT E I IN ITAL LINK | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90 (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin × 1 (Bep Color, compatible with HDMI 19-pin × 1 (3D timing signal)  BNC × 15 (RGB/YPBPR/VIDEO/YC × 1)  D-sub HD 15-pin (female) × 1 (RGB/YPBPR × 1)  BNC x 1 (3D timing signal)  BNC x 1 (3D timing signal)  D-sub 9-pin (female) × 1 for external control (RS-232C)  D-sub 9-pin (female) × 1 for link control  M3 × 1 for wired remote control  M3 × 1 for link control (for wired remote control)  D-sub 9-pin (female) × 1 for external control (parallel)  RJ-45 × 1 for network, D(GITAL LINK connection, 100  Molded plastic  £20 × 255 × 730 mm (24 13/32" × 10 1/32" × 28 3/4  Approximately 43 kg (94.8 lbs) (optional lens not includ   | with the D75LE90 (powered) ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  HDCP, compatible with single link only)  C compliant)  Base-TX, compatible with Art-Net, PJLink™ (class 1), Di  | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)  —                    | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 9 with the D75LE90) (powered)  — Ceiling/floor, front/rear BNC x 1 (3G/HD/SD-SDI)   |  |  |
| Cabinet mate Cabinet mate Cimensions (A) Cabinet mate Cimensions (A) Cimensions ( | Vertical ( Horizont  rection rar  solution rar  SDI IN  DVI-D IN  HDMI IN  RGB 2 IN  3D SYNO  3D SY | al (from center of screen)  ge ge with the -UK20  I I I III/OUT C OUT N DUT I I IN 1 OUT E I IN ITAL LINK | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90) (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (DVE 1.0 compatible with HDMI 1.0 compatible with HDMI 1.0 compatible vith IN SAL 1 (3D timing signal)  BNC x 1 (3D timing signal)  BNC x 1 (3D timing signal)  SNC x 1 | with the D75LE90) (powered)  ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  HDCP, compatible with single link only)  C compliant)  Base-TX, compatible with Art-Net, PJLink <sup>TM</sup> (class 1), Dr. (optional lens, legs and lens cover not included) ded)  titing humidity: 10–80 % (no condensation) | with the D75LE90) (powered)  ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)  ——  eep Color, HDCP | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 9 with the D75LE90) (powered)  — Ceiling/floor, front/rear BNC x 1 (3G/HD/SD-SDI)   |  |  |
|  | Vertical ( Horizont rection ran rection ran rection ran rection ran rection ran rade kit ET.  SDI IN DVI-D IN HDM IN RGB 1 IN RGB 2 IN 3D SYNG 3D SYNG SERIAL ( REMOTE REMOTE REMOTE LAN/DIG erials (W × H × C) sise**4 vivinoment of tware  | al (from center of screen)  ge ge with the -UK20  I I I III/OUT C OUT N DUT I I IN 1 OUT E I IN ITAL LINK | with the D75LE90 (powered)  ±20 % (£15 % with the ET-D75LE6, ±6 % with the D75LE90 (powered)  Vertical: ±40 °, horizontal: ±15 °  Vertical: ±45 °, horizontal: ±40 °  Ceiling/floor, front/rear, portrait  BNC × 2 (3G/HD/SD-SDI)  DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (DVI 1.0 compliant, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin × 1 (Deep Color, compatible with HDMI 19-pin (10 + 10 + 10 + 10 + 10 + 10 + 10 + 10   | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)  HDCP, compatible with single link only)  C compliant)  Base-TX, compatible with Art-Net, PJLink™ (class 1), Di   | with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 - +27 % [+: rightward] with the D75LE90) (powered)  —                    | with the D75LE90 (powered)  ±20 % (±15 % with the ET-D75LE6, -12 - +14 with the D75LE90) (powered)  — Ceiling/floor, front/rear BNC x 1 (3G/HD/SD-SDI)     |  |  |

\*1 When Standby Mode is set to Eco, network functions such as power on over LAN will not operate. Additionally, only certain commands can be received for external control using the serial terminal. \*2 Refresh rate varies depending on scanning frequency. \*3 This value (maximum 50 % brightness) is calculated by continuously turning the lamp on for 2 hours and off for 0.25 hours. The lamp replacement cycle will decrease if the lamp is turned on/off more frequently, or if it is left on for longer intervals. \*4 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. \*5 WD/GA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). \*6 Optical axis shift is not supported on the ET-IO75LE50. \*7 Average value. May differ depending on the actual unit. \*8 Operating temperature range is 0-40 °C (32–104 °F), when Fan Control is set to High Altitude Mode for altitudes 1,400–2,700 m (4,593–8,858 ft) above sea level. With ET-LAD520P/LAD520PF mounted for Portrait Mode, operating temperature range is 0-40 °C (32–104 °F). \*9 Available worldwide except in the United States.

### Optional Accessories

- Fixed-Focus Lens ET-D75LE50 (Short Th FT-D75I F90 (Ultra Short Throw
- Zoom Lens ET-D75LE6 / ET-D75LE10 / ET-D75LE20 ET-D75LE30 / ET-D75LE40 / ET-D75LE8
- Geometry Manager Pro Software Upgrade Kit
- Auto Screen Adjustment Upgrade Kit ET-CUK10 (except in the United States) High-Ceiling Mount Bracket FT-PKD520H
- Low-Ceiling Mount Bracket ET-PKD520S Replacement Lamp Unit ET-LAD520 (one bulb)
  - Bracket Assembly Projector Frame
- FT-LAD520F (a set of four bulbs)
- ET-LAD520P (for portrait mode, one bulb)
  ET-LAD520PF (for portrait mode, a set of four bulbs)
- Smoke Cut Filter Available as Service Parts
- Early Warning Software ET-SWA100 Series
- Digital Interface Switcher/Box

## **Panasonic**

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export control regulations. DIP, DIP logo and DIP Medallion logo are trademarks or registered trademarks of Texas Instruments. HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. All other trademarks are the property of their respective trademark owners. © 2015 Panasonic Corporation. All rights reserved.



Projector Global Website – panasonic.net/avc/projector Facebook - www.facebook.com/panasonicprojector YouTube - www.youtube.com/user/PanasonicProjector

All information included here is valid as of February 2015.

PT-DZ21K2PRE1 Printed in Japan

# **Panasonic**

As of February 2015

### PT-DZ21K2 Series

3-Chip DLP™ Projector

Available from Summer 2015

## Compact 20,000 Im Projector Delivers Stunning Picture Quality with High Frame-Rate









| DIGITAL               |
|-----------------------|
|                       |
| ILINK                 |
| SINGLE CABLE SOLUTION |
|                       |

| PT-DZ21K2 Series |           |           |           |           |  |  |  |
|------------------|-----------|-----------|-----------|-----------|--|--|--|
|                  | PT-DZ21K2 | PT-DS20K2 | PT-DW17K2 | PT-DZ16K2 |  |  |  |
| Brightness       | 20,000 lm | 20,000 lm | 17,000 lm | 16,000 lm |  |  |  |
| Resolution       | WUXGA     | SXGA+     | WXGA      | Full HD   |  |  |  |
| Contrast         | 10,000:1  | 10,000:1  | 10,000:1  | 10,000:1  |  |  |  |

### Ultra-Bright and Detailed Images

- 20,000 lm Brightness (DW17K2: 17,000 lm, DZ16K2: 16,000 lm) for Large Venues
- Real Motion Processor Combines Frame-Creation and 120 Hz Processing for Fluid Motion Reproduction (PT-DZ21K2, DS20K2, DZ16K2)
- Next-Generation Detail Clarity Processor Delivers Crisp and Detailed Image Quality
- High 10,000:1\*1 Contrast Ratio with Dynamic Iris
- System Daylight View 3 for Enhanced Color Performance in Bright Rooms and Mapping Applications
- Waveform Monitor Function for Easy Adjustment of Black/White Level
- DICOM Simulation Mode for Medical Presentations and Training\*2
- Active 3D Projection Capability (PT-DZ21K2/DS20K2)

### High Reliability and Low TCO

- Extended Lamp Replacement Cycle of 3.000 Hours\*3
- Liquid Cooling with Highly Efficient Quad-Lamp System Reduces Operational Noise
- Stable Operation in Ambient Temperatures of up to 45 °C\*4
- Quad-Lamp System Allows 24/7 Operation in Lamp Relay Mode
- Easy Lamp Replacement from Rear Side
- Eco Filter Requires No Maintenance for 12,000 Hours\*5
- Durable, Precision-Tuned Optical Engine
- High Efficiency Lamps Reduce Power Consumption

#### Versatile Installation Flexibility

- Flexible Installation with 360 ° Vertical Cabinet Rotation
- Multi-Screen Support Seamlessly Joins Screens with Edge Blending, Color Matching, and Multi-Screen Processing
- Geometric Adjustment for Projection on Curved or Spherical Surfaces (PT-DZ21K2/DS20K2)
- Compatible with Optional Upgrade Kit (ET-UK20) Featuring Geometry Manager Pro (PT-DZ21K2/DS20K2)
- Multi-Unit Brightness Control
- Compatible with Panasonic Multi Projector Monitoring & Control Software
- Single-Cable DIGITAL LINK Connection Transmits Video and Control Signals for Up
- Portrait Mode Capability with Optional Lamp Unit\*6
- Abundant Terminals Including 3G-SDI Inputs (DZ21K2/DS20K2 Features Inputs x 2, DZ16K2 Input x 1)

<sup>\*1</sup> Full on/off, with Dynamic Iris set to "3". \*2 This product is not a medical instrument. Do not use for actual medical diagnosis. \*3 Usage environment affects lamp replacement cycle. \*4 Operating temperature range is 0–40 °C (32–104 °F) when projector is used in Portrait mode or High Altitude Mode for altitudes 1,400–2,700 m (4,593–8,858 ft). Operating temperature range is 0–35 °C (32–95 °F) when projector used in Portrait mode in High Altitude Mode. \*5 Usage environment affects filter replacement cycle. \*6 Installation is possible only with the terminal side facing downward. Horizontal rotation and vertical rotation are both limited to 15 °. Additionally lamp life is reduced to 700 hours depending on usage environment.