

# TAXAN

Kaga Components Co., Ltd. acquired the PLUS Data Projector business from PLUS Vision Corp. in April 2006.

## Data Projector PD121X



A single-chip DLP® projector equipped with dust filter and offering uncompromising performance in a ceiling

# Data Projector PD121X

3000lm  
True XGA

Double-filter  
construction  
excludes dust

Hermetically  
sealed  
DLP® unit

# Bright 3000 lumens DLP® projector with dust-resistant construction.

Designed specifically for ceiling-mounted use without compromising projector performance.

Double-filter  
construction  
excludes dust

Hermetically  
sealed  
DLP® unit

## Large electrostatic dust filter

A large electrostatic filter guards the air intake, keeping the air inside the projector free of dust.



In addition to the hermetically sealed single-chip DLP® display device, dust-resistant construction helps.

## Specially coated lens cover

Protects the lens from scratching by dust, etc. This special coating also prevents unwanted reflections.



## Clear cover for operation panel

A clear cover fits tightly over the operation panel, effectively sealing it from dust. This is especially important.



## Zoom/focus ring cover

A special cover fits tightly over the adjustable portion of the zoom and focus ring.



# Data Projector PD121X

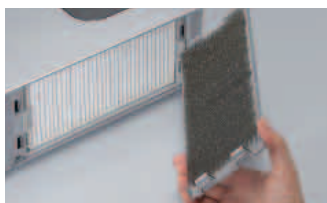
## A highly efficient dust filter minimizes degradation in lamp performance.

### Double filtering, with pre-filter and a large electrostatic dust filter.

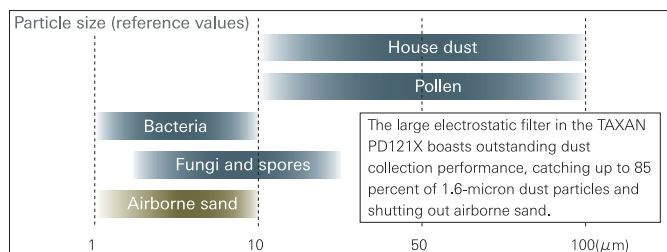
A large, high-performance electrostatic dust filter that traps fine dust particles (with an efficiency of 85% for particles as small as 1.6 microns) comes as standard equipment. In addition to this there is a pre-filter which prolongs the life of the high-performance filter by catching larger particles in advance. An anti-scattering design keeps tiny particles of collected dust from being dispersed back in to the air when replacing the filter, and a timer function conveniently alerts the user when it is time for filter replacement.



Large electrostatic dust filter

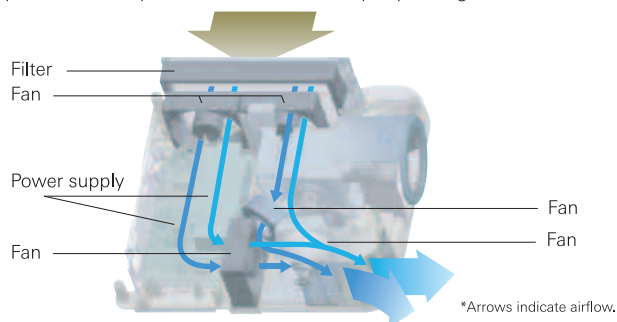


Pre-filter



### Based on precise airflow analysis, internal air is kept clean at all times.

A projector needs a constant intake of outside air for internal cooling, and the TAXAN PD121X design is based on a careful analysis of the airflow from intake to exhaust. Fans are deployed at key points, and the airflow is optimized to enable proper cooling with only one ventilation port, thereby limiting the intake of air that bypasses the filter. By restricting dust intrusion, performance is maximized and the lifespan of the lamp and electronic circuitry is prolonged.



### Designed to minimize deterioration in lamp performance caused by dust and dirt.

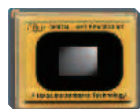
Keeping the lamp and deflector clean is important for maintaining lamp brightness. The TAXAN PD121X achieves this via its dust-resistant design, which prevents the influx of airborne particles and thereby minimizes lamp deterioration.



Lamp replacement

## The simple single-chip construction makes the DLP® system extremely dust-resistant.

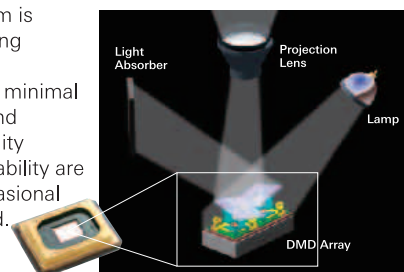
### DLP® ensures exceptional dust resistance.



The heart of the display device is a single hermetically sealed chip. Thanks to this construction technique, high-quality images, unaffected by dust or dirt, are guaranteed.

### Exceptionally durable, with minimal deterioration over time.

The DLP® projection system is simple in construction, using mirrors to reflect light, and discolouration over time is minimal so colours remain sharp and accurate. Stable, high-quality images and long-term durability are guaranteed, with only occasional lamp replacement required.



### Compact and lightweight for easy installation.

For a dust-resistant model, the body is surprisingly compact at just 273 mm (W) × 95 mm (H) × 300 mm (D), and weighing approximately 2.8 kg. The projector can easily be suspended from the ceiling, and adapts flexibly to a variety of installation environments.

### The high quality and high contrast images for which DLP® technology is famous.

DLP® is a fully digital, highly advanced imaging technology used even for digital cinema. It reproduces images with remarkable clarity and definition, displaying smooth video in natural hues. In addition, the TAXAN PD121X using DLP® technology projects images with a high contrast ratio of 2000:1 and brightness of 3000 lumens, resulting in vivid, life-like presentations even in well-lit rooms. It offers a choice of colour modes, including presentation mode, graphic mode, and blackboard mode, for optimisation to the desired purpose and environment.



Contrast ratio: high



Contrast ratio: low

\*Simulated images

### Comes with a wealth of other convenient functions.

- Standard provision of an RS-232C interface enabling PC control
- Quick-start feature requiring only 18 seconds warm-up time, and quick-off feature that keeps operating the cooling fan using the internal power supply so as to cool down the lamp even after the power cord is removed
- Automatic keystone correction feature, which takes just three seconds to detect and remedy image distortion caused by perpendicular misalignment



Card-type remote Control  
(supplied as standard)

Auto source | Auto adjustment | Quick colour adjustment | Digital zoom | Freeze-frame | Video and audio muting | Presentation timer | Eco mode | DVD progressive input support | HDTV broadcast support | Component signal support | Line doubler | Security password | Security slot

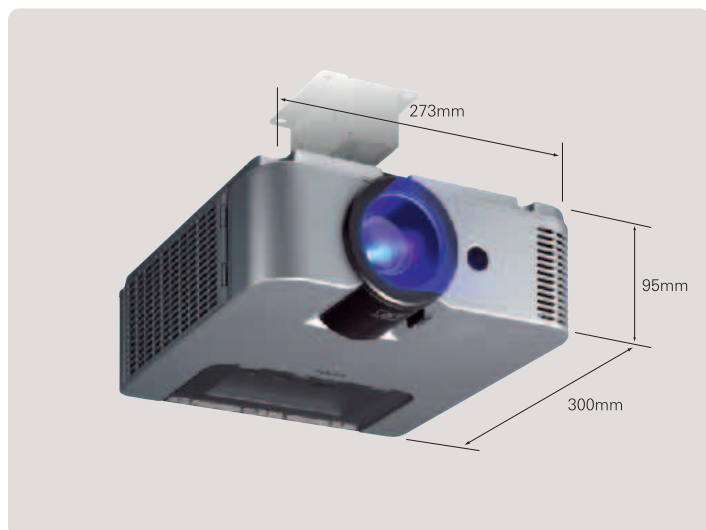
# Data Projector PD121X



## Specifications

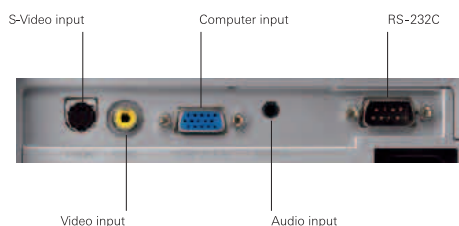
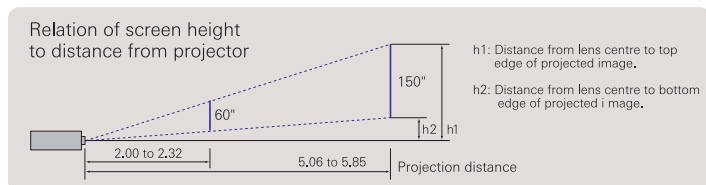
|                                                      |                                              |                  |                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------|----------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                                |                                              |                  | KG-PD121X <span>True XGA</span>                                                                                                                                                                                                                                                                   |
| Projection system                                    |                                              |                  | Single-chip DLP®                                                                                                                                                                                                                                                                                  |
| Specifications of main components                    | DLP® chip                                    | Size             | 0.55"                                                                                                                                                                                                                                                                                             |
|                                                      |                                              | Pixels           | 786,432 pixels (1024x768)                                                                                                                                                                                                                                                                         |
|                                                      | Projection lens                              |                  | Manual zoom (x1.15), manual focus<br>F2.45-2.62 f=18.7-21.5 mm                                                                                                                                                                                                                                    |
|                                                      | Throw ratio                                  |                  | 1.64 ~ 1.90m                                                                                                                                                                                                                                                                                      |
|                                                      | Light source<br>(high-pressure mercury lamp) |                  | 230 W                                                                                                                                                                                                                                                                                             |
|                                                      | Imaging system                               |                  | Time-division colour multiplexing<br>using dichroic filters                                                                                                                                                                                                                                       |
| Screen size                                          |                                              | Minimum (tele)   | 32" (projection distance 1.2 m)                                                                                                                                                                                                                                                                   |
|                                                      |                                              | Maximum (wide)   | 300" (projection distance 10.2 m)                                                                                                                                                                                                                                                                 |
| Colour reproduction                                  |                                              |                  | Full colour (16,770,000 colours)                                                                                                                                                                                                                                                                  |
| Brightness (see Note)                                |                                              | Normal           | 3000 lumens                                                                                                                                                                                                                                                                                       |
|                                                      |                                              | Eco mode         | Approx. 80% of normal brightness                                                                                                                                                                                                                                                                  |
| Lamp Life                                            |                                              | Normal           | 2,000 h                                                                                                                                                                                                                                                                                           |
|                                                      |                                              | Eco mode         | 3,000 h                                                                                                                                                                                                                                                                                           |
| Noise                                                |                                              | Normal           | 34dB                                                                                                                                                                                                                                                                                              |
|                                                      |                                              | Eco mode         | 31dB                                                                                                                                                                                                                                                                                              |
| Contrast ratio (full on/off)                         |                                              |                  | 2000:1                                                                                                                                                                                                                                                                                            |
| Audio output                                         |                                              |                  | 0.5 W monaural                                                                                                                                                                                                                                                                                    |
| Scanning frequency range (horizontal/vertical)       |                                              |                  | 15-80 kHz/50-85 Hz                                                                                                                                                                                                                                                                                |
| Computer input                                       | Input connector                              |                  | 15-pin mini D-sub<br>(analogue RGB/YCbCr/YpBPr common) X 1                                                                                                                                                                                                                                        |
|                                                      | Supported resolutions                        | VGA (640×480)    | Expanded/real display                                                                                                                                                                                                                                                                             |
|                                                      |                                              | SVGA (800×600)   | Expanded/real display                                                                                                                                                                                                                                                                             |
|                                                      |                                              | XGA (1024×768)   | Real display                                                                                                                                                                                                                                                                                      |
|                                                      |                                              | SXGA (1280×1024) | Compressed display                                                                                                                                                                                                                                                                                |
| Video input                                          | Input signals                                |                  | NTSC3.58, NTSC4.43, PAL, PAL_N,<br>PAL_M, PAL60, SECAM, YCbCr<br>(NTSC and PAL only), YPbPr<br>(480p, 576p, 1080i, 720p)                                                                                                                                                                          |
|                                                      | Input connectors                             |                  | RCA (video) X 1                                                                                                                                                                                                                                                                                   |
|                                                      |                                              |                  | 4-pin mini DIN (S-video) X 1                                                                                                                                                                                                                                                                      |
|                                                      |                                              |                  | 15-pin mini D-sub<br>(analogue RGB/YCbCr/YPbPr common) X1                                                                                                                                                                                                                                         |
|                                                      |                                              |                  |                                                                                                                                                                                                                                                                                                   |
| Audio input connector                                |                                              |                  | Stereo mini jack<br>(3.5mm diameter) (RGB/video common) X1                                                                                                                                                                                                                                        |
| Other connectors                                     |                                              |                  | RS-232C X 1                                                                                                                                                                                                                                                                                       |
| Operating environment                                |                                              |                  | Temperature 5-35°C, Humidity: 30-85%<br>(no condensation)                                                                                                                                                                                                                                         |
| Power supply                                         |                                              |                  | 220-240 V AC 50/60 Hz                                                                                                                                                                                                                                                                             |
| Power consumption                                    | Rated                                        | 300 W            |                                                                                                                                                                                                                                                                                                   |
|                                                      | Eco mode                                     | 260 W            |                                                                                                                                                                                                                                                                                                   |
| Standby power                                        |                                              |                  | 10 W max.                                                                                                                                                                                                                                                                                         |
| External dimensions (not including protruding parts) |                                              |                  | 273(W)×95(H)×300(D) mm                                                                                                                                                                                                                                                                            |
| Weight                                               |                                              |                  | Approx. 2.8 kg                                                                                                                                                                                                                                                                                    |
| Accessories                                          |                                              |                  | Card-type remote control,<br>Remote control battery (CR2025),<br>Power cord (1.8 m),<br>RGB signal cable (15-pin min D-sub/2 m),<br>Audio conversion adapter<br>(3.5 mm jack – RCA pin/15 cm),<br>Full user manual on CD-ROM,<br>Short printed user manual, Security label,<br>Replacement filter |

The product design and specifications indicated in this pamphlet are subject to change without notice.



## Projection Screen Size

|      | Projection distance (m) wide to tele | Height h1 (m) | Height h2 (m) |
|------|--------------------------------------|---------------|---------------|
| 60"  | 2.00 to 2.32                         | 1.00          | 0.09          |
| 80"  | 2.68 to 3.10                         | 1.35          | 0.13          |
| 100" | 3.36 to 3.88                         | 1.68          | 0.16          |
| 120" | 4.04 to 4.67                         | 2.02          | 0.19          |
| 150" | 5.06 to 5.85                         | 2.53          | 0.24          |



For information about our projectors please visit

[www.taxan-projector.com](http://www.taxan-projector.com)

## KAGA COMPONENTS CO.,LTD.

- ⚠ Caution: For your safety, please read the instruction manual carefully and use the product correctly and in accordance with the instructions.
- ⚠ Caution: Do not install in a location exposed to moisture, high humidity, or oily fumes, which can cause fire, malfunctioning, or electrical shock.
- ⚠ Warning: Do not look into the lens during image projection as this may cause eye injury; be especially careful in this regard in a home or other environment where there are small children present.
- ⚠ Warning: Do not place paper or cloth directly in front of the lens blocking the light, as this can cause fire.
- ⚠ Warning: A high-pressure mercury lamp is used as the light source inside the projector; such a lamp, when subjected to strong impact or when past its usable life expectancy, may burst with a loud report and no longer function. The length of time before a lamp bursts or no longer functions may vary considerably with individual lamps and conditions of use.

\_For the sake of product improvements, the specifications and appearance as described herein are subject to change without notice. \_The actual product colour may differ slightly from that shown in this printed material. \_DLP® and the DLP logo are registered trademarks of Texas Instruments Incorporated. \_The names of companies and products mentioned herein are the trademarks or registered trademarks of their respective owners.

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## Inquiries: