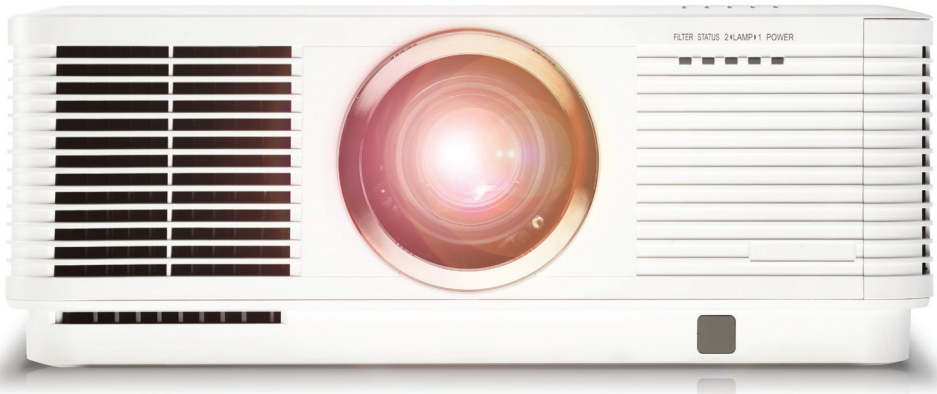
MITSUBISHI ELECTRIC
Changes for the Better

for a greener tomorrow eco Changes



WD8700U

Superior Imaging Capabilities

The new high-brightness installation model with advanced colour reproduction performance

Introducing an evolutionary Advanced Installation model with vivid image and colour reproduction for truly unforgettable presentations

High picture quality, functionality and reliability – The new WD8700U installation-model projector from Mitsubishi Electric utilizes advanced colour reproduction technologies to create images that ensure maximum impact from your presentations. Aiming to reproduce true-to-life images, exhaustive measures have been taken to achieve precise colour reproduction in addition to high brightness and high contrast. Easy to install and requires minimal maintenance, further contributing to the superior reliability synonymous with the Mitsubishi Electric name.

High Image Quality

Vivid Colour 7300lm Brightness and 2800:1 High Contrast

Features including impressive 7300lm brightness and a high contrast of 2800:1 allow the WD8700U to reproduce clear, sharp images regardless of venue size, be it a large meeting room or lecture hall. Whether coming from a computer, video-cassette player or other source, the reproduction of vivid images full of colour is guaranteed.

Optional Colour Wheel with High Colour Brightness

In addition to the standard red (R)/green (G)/blue (B)/white (W) four-segment colour wheel, an optional three-segment (R/G/B) colour wheel is available. Compared to the standard colour wheel, it reproduces each primary colour (R/G/B) with high brightness and in vivid, deep tones, making it possible to project visuals rich with colour.

*White brightness is reduced when the optional colour wheel is used.

Standard Colour Wheel

Optional Colour Wheel

Super Resolution

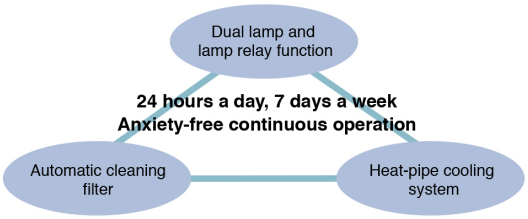
This projector is equipped with Mitsubishi Electric's industry-leading, advanced image-processing algorithm, which is also used in our televisions and displays. The technology analyses blurred components in the original images, estimates high-resolution data not provided in the original signal and corrects the image quality. The result is the projection of sharp, vivid images such as people's faces in fine detail.

Enlarged image (original)

Image processed by Super Resolution

High Reliability

The dual lamp system and lamp relay function enable continuous operation with no risk of the image going out. Dust resistance and cooling performance are greatly enhanced by the automated self-cleaning filter and heat-pipe cooling system technologies that have proven so successful in air conditioners, enabling extended continuous use for monitoring and digital signage applications.

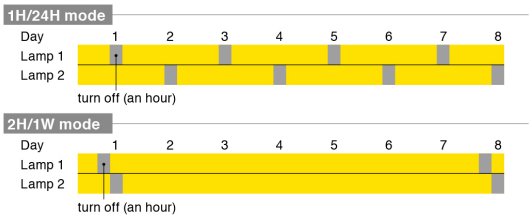


Automatic Cleaning Filter

We've utilized the same mechanism (mesh filter and cleaning brush) that has a proven track record in Mitsubishi Electric air conditioners and air purifiers. It automatically prevents dust from building up in the radiator of the heat-pipe cooling unit for the digital micro-mirror device (DMD), thereby ensuring trouble-free use for extended periods of time.

Various Lamp Replay Options

Continuous, bright projection is ensured through the utilization of a dual-lamp light source and a variety of setting options. When two lamps are in use, one of the lamps can be rested (turned off) once a day or week. Additionally, if only one lamp is being used and it goes out, an automatic back-up function activates the other lamp, enabling nonstop projection.



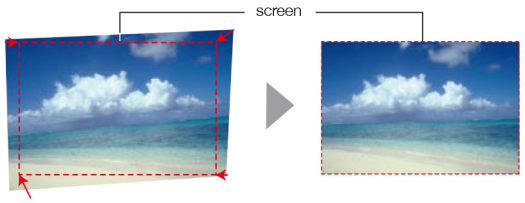
Heat-pipe Cooling System

Compared to liquid-based cooling systems, this heat-pipe cooling system has a simplified structure and does not require a power supply, enabling a more compact design and cost reductions. Not only is it highly reliable, other benefits include exceptional energy savings, quiet operation and elimination of concerns regarding liquid leaking.

Installation Flexibility

Geometric Corrections

Keystone Correction – Trapezoidal distortion caused when the projector is not positioned directly in front of the screen is corrected in both vertical and horizontal directions.

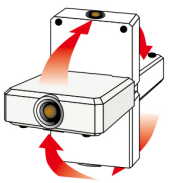


Cornerstone Correction – Pixel conversion is used to correct trapezoidal and diagonal distortion that causes oblique images, ensuring the proper aspect ratio.

Curved-surface Projection Correction – Projectors in the series are equipped with a distortion correction function that can be used when projecting images onto curved surfaces. Coordinates at the image's four corners are adjusted, enabling the projection angle to be adjusted at the time of angled or stacked projection. It is extremely handy for unique applications like projecting images onto special surfaces such as pillars at event sites.

360° Projection Capability – Images can be projected over a full 360° along the vertical axis* including reproduction on the ceiling or floor. The application possibilities are limitless.

*Excludes use in high-altitude mode.

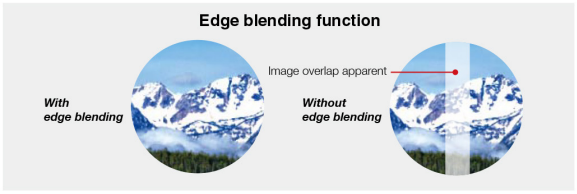


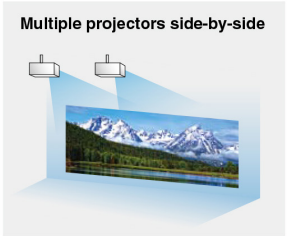
Ultra-short-throw Optional Lens (OL-XD8000EZ)

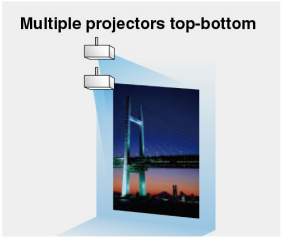
The newly introduced OL-XD8000EZ lens enables a projection distance as short as 0.8~1.0m. Large images with high picture quality can be enjoyed even in small rooms where it's not possible to secure a standard projection distance.

Multi-screen Solutions

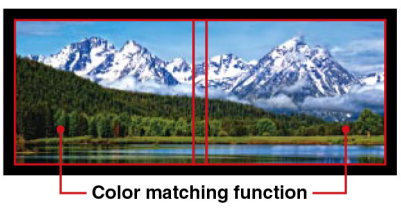
Edge Blending – Edge blending creates a seamless image by adjusting the brightness at adjoining edges when using multiple projectors side-by-side to reproduce single widescreen images. This feature can also be utilized for top-bottom projection or a combination of side-by-side and top-bottom images; for example, when images are projected from four projectors in a two-by-two arrangement.







Colour Matching – The use of multiple projectors to create a larger image can result in colour variations due to slight differences in projector image processing. The WD8700U is equipped with a colour matching function that resolves this problem. Each projector is adjusted so that the same colours are reproduced when multiple projectors are used simultaneously.



Power Zoom/Focus and Lens Shift – The zoom/focus and lens shift adjustment are powered by an electric motor, ensuring easy operation.

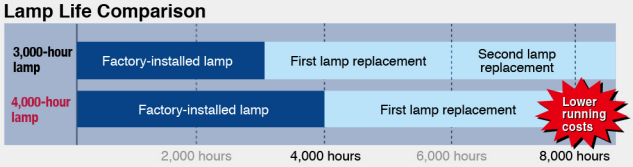
Ecology

Long 4000hrs* Lamp Life

Designed with a lamp temperature controlling system, the WD8700U can support an estimated lamp rating of up to 4000 hours. The long estimated lamp life makes dramatic reductions in overall cost of ownership by decreasing the frequency of lamp replacements.

*When used in low mode.

Lamp Life Comparison



Lamp life specification is an estimate based on verification under proper conditions and is not the duration of the warranty. Lamp will shut-off automatically when usage reaches the specified estimated maximum lamp hours. Service life may vary widely depending on usage and operating environment and conditions, as well as users' adherence to the maintenance and cleaning procedures provided in the user manual.

Standy-by Wattage under 0.3W*

Stand-by (low) mode power consumption is less than 0.3W, offering increased energy savings and further contributing to environmental preservation.

*When in stand-by (low) mode. At this time, use of the LAN function, serial output and Remote 1 is not possible.

Network

Network Connectivity

Projectors are equipped with a RJ-45 LAN terminal for remote operation. Additionally, when used with Crestron RoomView™, integrated control of up to 250 projectors including power on/off control, message display and confirmation of lamp service hours is possible. The WD8700U is equipped with AMX Device Discovery for simplified device management and compatible with PJLink™.

*The trademark of PJLink is trademark applied for registration or registered trademark in Japan, the United States, and other countries and areas.

Multiple Terminals

Many different interfaces are possible thanks to a variety of terminals including DVI-D (HDCP), HDMI and 5BNC. A control terminal (compatible with RS-232C) is also provided for easier system integration.

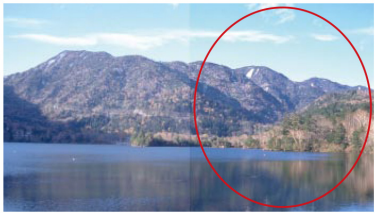
Demonstration Mode

In demonstration mode, the image on the screen is split and the effects of the following features are shown on the right side.

1: Super Resolution

2: Natural Colour Matrix

3: Dynamic Contrast Correction

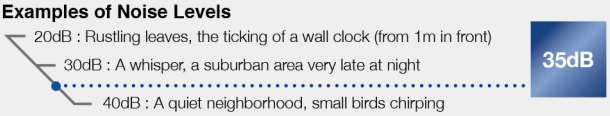


User Friendly

Ultra Quiet 35dB Operation

Fan noise during projector operation can be distracting during a presentation or videoconference. The WD8700U operates at a significantly low noise level of only 35dB (i.e. using a dual lamp in "low lamp" mode). As a result, presentations and conferences can be held without distracting projector noise in the background.

Examples of Noise Levels



ID-compatible Remote Control

ID settings for up to 63 projectors are possible. Setting the IDs allows control of each individual projector when multiple projectors are installed

Mechanical Shutter

An internal shutter in the projector enables light to be completely blocked when the projector is in Mute mode.

Lamp Side Access

The lamps can be accessed from the side of the unit.

Cable Lock

Reliability has been improved by introducing a cable locking function that prevents the AC power cord from becoming disconnected accidently.

Other

OSD Menu Multilanguage Compatibility (20 Languages*)

*Previous languages: Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Swedish Languages added: Dutch, Indonesian, Malaysian, Norwegian, Thai, Turkish, Vietnamese, Arabic

2-Screen Mode – Split

Direct Power Off

High-altitude Mode (2,000 to 2,700m)

Adjusts fan speed and other necessary settings to ensure proper projector operation even in high altitude environments.

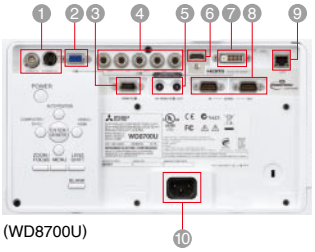
Closed Caption Support

A closed caption decoder comes installed as standard equipment. Words spoken are processed into subtitles that are projected onto the screen. This feature conveniently addresses the needs of language students and hearing-impaired viewers.

NEW

WD8700U

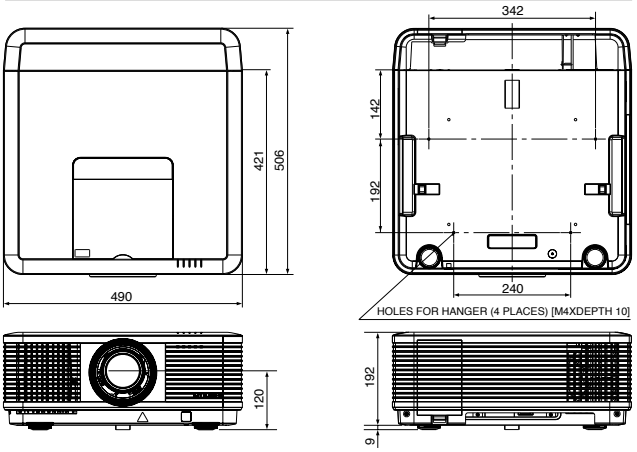
Connection Terminals



(WD8700U)

1. S-Video/Video
2. PC/Component video input-1
3. Remote-1
4. PC/Component video input-2
5. Remote-2 (I/O)
6. HDMI
7. DVI-D
8. Serial RS-232C (I/O)
9. LAN (RJ-45)
10. Power in (3-pin with earth terminal)

Dimensions (unit: mm)



Effective March 2013. Specifications are subject to change without notice.

Specifications

Display technology	0.65* 1-Chip DMD
Resolution	1280 x 800 (Total 1,024,000 pixels)
Brightness	Dual lamp: 7300lm / Single lamp: approx 50% of dual lamp
Contrast ratio	2800:1 (on/off)
Projection lens	f = 24.5-33.1mm, F = 2.0-2.4
Zoom / Focus	Powered focus / zoom (zoom ratio 1.35:1)
Picture size	40"-300"
Source lamp	Dual (350W x 2): Lamp mode — Normal: Lamp service life 2,000 hours; Low: 4,000 hours. Single (350W x 1): Lamp mode — Normal: Lamp service life 4,000 hours*; Low: 8,000 hours*. *When in lamp relay mode
Computer compatibility	Resolution: 640 x 400 - 1920 x 1200 / True: 1280 x 800, Sync-on-Green available
Video compatibility	NTSC / NTSC 4.43 / PAL (including PAL-M, N) / SECAM / PAL-60; Component video: 480i/p (525i/p), 576i/p (625i/p), 720p (750p 50/60Hz), 1080i (1125i 50/60Hz), 1080p (1125p 50/60Hz): SCART (RGB + 1V sync, only mini D-sub 15-pin Terminal)
Input terminals	PC: 5 BNC × 1, mini D-sub 15-pin × 1, DVI-D (with HDCP) × 1; Video: BNC × 1, S-Video (4-pin) × 1, HDMI (Ver 1.3, Deep Colour) × 1; 3G-SDI × 1 (UD8900U only)
Communication terminals	LAN (RJ-45): × 1 (projector control), SERIAL (in): D-sub 9-pin (male) × 1 (direct command is available.), SERIAL (out): D-sub 9-pin (male) × 1 (direct command is available.) Wired remote (in): × 1 (3.5mm stereo mini jack), Wired remote (out): × 1 (3.5mm stereo mini jack), Remote: D-sub 9-pin (female) × 1
Dimensions (W x H x D)	490 × 201 × 421mm / 19.3 × 7.9 × 16.6 inch (exclude detachable terminal cover and protrusion)
Weight	16.0kg / 35.3lbs (exclude detachable terminal cover)
Power supply	AC 100 - 240V, 50/60Hz

Brighter display solutions

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