New **FL6900U** FULL HD 1080

## Input and Output Terminals

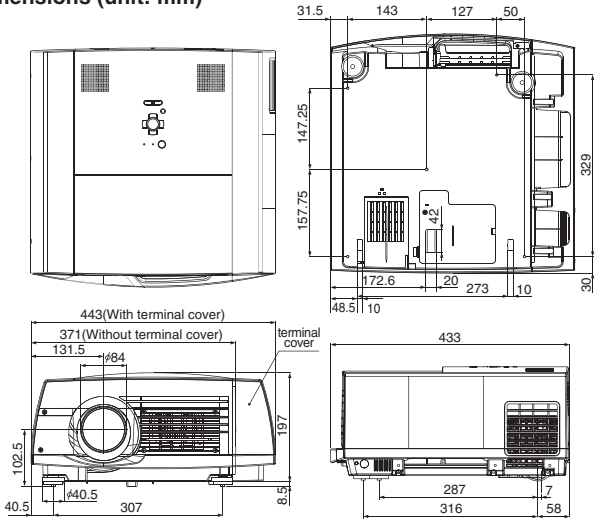1. REMOTE IN and OUT terminals
2. LAN terminal
3. SERIAL terminal (D-Sub 9pin)
4. USB (COMPUTER) terminal
5. COMPUTER / COMPONENT VIDEO DVI-D (HDCP) terminal (DVI-D 24pin)
6. COMPUTER / COMPONENT VIDEO IN 1 terminals (R/P$_R$, G/Y, B/P$_B$, H/HV, V) (BNC)
7. Main power switch ○ : OFF Ⅰ : ON
8. Power jack
9. AUDIO IN 1 terminal (Mini jack)
— The AUDIO IN 1 terminal is used for both COMPUTER 1 and DVI input.
10. AUDIO IN 2 terminal (Mini jack)
11. COMPUTER / COMPONENT VIDEO IN 2 terminal (Mini D-Sub 15pin)
12. MONITOR OUT terminal (Mini D-Sub 15pin)
13. AUDIO OUT terminal (Mini jack)
14. VIDEO IN and audio input terminals
15. S-VIDEO IN and audio input terminals

## Optional Lenses Line-Up

| OL-X500SZ (Short Throw Zoom Lens) | OL-X500LZ (Long Throw Zoom Lens) | OL-X500TZ (Tele Throw Zoom Lens) | OL-X500FR(F) (Rear Projection Short Throw Fix Lens) |
|---|---|---|---|
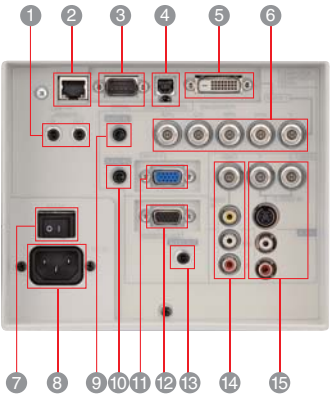
## Dimensions (unit: mm)

## Specifications

| Model | FL6900U |
|---|---|
| Display technology | 1.1" 3-LCD (with micro lens) |
| Resolution | 1920 x 1080 (Total 2,073,600 pixels) |
| Brightness | 4000 ANSI Lumens |
| Contrast ratio | 1000:1 (on/off) |
| Projection lens | f=51-64mm, F1.8-2.1 |
| Throw ratio | 2.01 - 2.56 |
| Offset axis | 10 : 0 (default) with variable H + V powered lens shift (excluding OL-X500FR) |
| Zoom / Focus | Motorized Zoom & Focus |
| Picture size | 60" - 250" (Diagonal) |
| Source lamp | 220W (Shut Off Time 4000Hrs) with Low mode, 275W (Shut Off Time 2000Hrs) with Standard mode |
| Computer compatibility | Resolution: 640 x 400 (Expand) - 1920 x 1080 (Real) - 1600 x 1200 (Compress) 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), (1080i (1250i 50Hz) is not available) SCART (RGB + 1V sync, only Mini D-Sub 15pin Terminal) |
| Input terminals | PC: 5 BNC x 1, Mini D-Sub 15pin x 1, DVI-D(with HDCP) x 1, PC Audio: Stereo mini jack (φ3.5mm) x 2 Video: RCA x 1 or BNC x 1, S-VIDEO (4pin) x 1 or S-VIDEO Y/C (BNC), Video Audio: RCA (L/R) x 2 |
| Output terminals | RGB: Min D-Sub 15 pin x 1, Audio: Stereo mini jack (φ3.5mm) x 1 (Variable Out) |
| Communication terminals | LAN (RJ-45): x 1 (Projector control), RS-232C: D-Sub 9pin x 1 (Direct command is available.), USB: x 1 (for Mouse Cursor Control), Wired remote (IN): x 1 (φ3.5mm Stereo mini jack), Wired remote (OUT): x 1 (φ3.5mm Stereo mini jack ) |
| Audio speaker | 10 W Mono |
| Dimensions (W x H x D) | 17.4 x 8.1 x 17.1 inch (Including Detachable Terminal Cover) |
| Weight | 9.8kg / 21.6lbs  (Excluding Detachable Terminal Cover) |
| Power supply | AC100 - 240V, 50/60Hz |
| Accessories | Replacement Lamp (VLT-XL6600LP), Optional Lens: OL-X500SZ, OL-X500LZ, OL-500TZ, OL-X500FR(F), Hard shell rolling case: XL7000-ATAC, Ceiling Mount: XL5950CM |
| Warranty | 3-Years Parts/Labor, 3-Years Express Replacement Assistance, 1-Year or 500 hours lamp warranty (whichever comes first) |

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## Projection Distance with Optional Lenses

| Screen Size (inch) | OL-X500SZ | | | | OL-X500LZ | | | | OL-X500TZ | | | | OL-X500FR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Shortest (Wide) | | Longest (Tele) | | Shortest (Wide) | | Longest (Tele) | | Shortest (Wide) | | Longest (Tele) | | inch | m |
| | inch | m | inch | m | inch | m | inch | m | inch | m | inch | m | | |
| 60 | 74 | 1.9 | 90 | 2.3 | - | - | - | - | - | - | - | - | 43 | 1.1 |
| 80 | 100 | 2.5 | 121 | 3.1 | 173 | 4.4 | 244 | 6.2 | 256 | 6.5 | 386 | 9.8 | 59 | 1.5 |
| 100 | 125 | 3.2 | 152 | 3.9 | 220 | 5.6 | 307 | 7.8 | 319 | 8.1 | 484 | 12.3 | 75 | 1.9 |
| 150 | 189 | 4.8 | 229 | 5.8 | 331 | 8.4 | 465 | 11.8 | 484 | 12.3 | 728 | 18.5 | 114 | 2.9 |
| 200 | 253 | 6.4 | 305 | 7.8 | 445 | 11.3 | 622 | 15.8 | 646 | 16.4 | 972 | 24.7 | - | - |
| 250 | 317 | 8.1 | - | - | 555 | 14.1 | 780 | 19.8 | 811 | 20.6 | 1217 | 30.9 | - | - |

## Screen Size and Projection Distance

Refer to the following table to determine the screen size and projection distance.
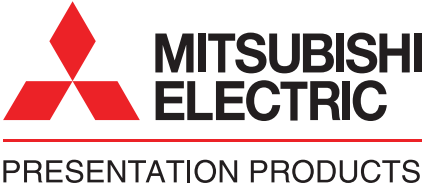
**Front projection**
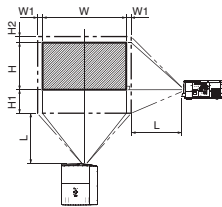
**Front projection, ceiling mounting**
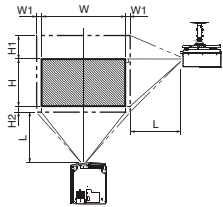
| Screen Size | | | | | | Projection distance (L) | | | | Lens movable range | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diagonal size | | Height (H) | | Width (W) | | Shortest (Wide) | | Longest (Tele) | | H1 | | H2 | | W1 | |
| inch | cm | inch | cm | inch | cm | inch | m | inch | m | inch | cm | inch | cm | inch | cm |
| 60 | 152 | 29 | 75 | 52 | 133 | 104 | 2.6 | 133 | 3.4 | 15 | 38 | 4 | 10 | 3 | 7 |
| 80 | 203 | 39 | 100 | 70 | 177 | 140 | 3.5 | 178 | 4.5 | 20 | 51 | 5 | 13 | 4 | 9 |
| 100 | 254 | 49 | 125 | 87 | 221 | 175 | 4.5 | 223 | 5.7 | 25 | 63 | 7 | 17 | 4 | 11 |
| 150 | 381 | 74 | 187 | 131 | 332 | 264 | 6.7 | 336 | 8.5 | 37 | 94 | 10 | 25 | 7 | 17 |
| 200 | 508 | 98 | 249 | 174 | 443 | 354 | 9.0 | 449 | 11.4 | 49 | 125 | 13 | 34 | 9 | 22 |
| 250 | 635 | 123 | 311 | 218 | 553 | 443 | 11.2 | - | - | 62 | 156 | 17 | 42 | 11 | 28 |

* The above figures are approximate and may be slightly different from the actual measurements.

**MITSUBISHI ELECTRIC**
PRESENTATION PRODUCTS

11/08 - LITFL6900

Specifications subject to change without notice.

*Changes for the Better*

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## MULTIMEDIA DATA/VIDEO PROJECTORS

Image power that will change business styles.

The debut of the FL6900U. Full HD anytime, anywhere.

**FL6900U**

New FULL HD 1080

# High usability suited for business environments.

## Visual communications that's a step ahead

Present in impressive full1080p high-definition, complete with split (side-by-side) screen display.
Vividly reproduce your presentation and video images for videoconferences, seminars, lectures and meetings.
With the FL6900U your power of expression is a cut above the rest and is a key to persuasive presentations every time.

*New* **FULLHD 1080** FL6900U

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### Full 1080p dramatically expands your image

Large capacity visual images are impossible to reproduce in full with conventional XGA projectors. The FL6900U is compatible with HDTV broadcasts and Blu-ray Disc to project impressive and full 1080p images in all their original digital glory.

XGA(1024 X 768)     1080p(1920 X 1080)
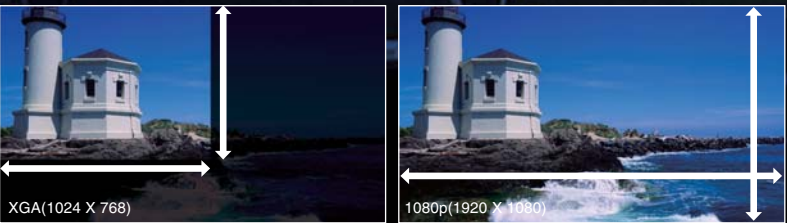
### Split (side-by-side) window function brings expression to the next level

The split-screen function of conventional XGA projectors overlap, with the sub-screen in front of the main screen. Our full high-definition panels present perfectly parallel split windows, placing two screens side-by-side. When displays are simultaneous and identical in scale, comparative viewing is clear and effective.

XGA(1024 X 768)     *XL5980U/XL5900U     1080p(1920 X 1080)

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### High bright 4000lm

The FL6900U delivers high bright 4000 lumen images. A high brightness level for presenting in large meeting rooms and conference halls.
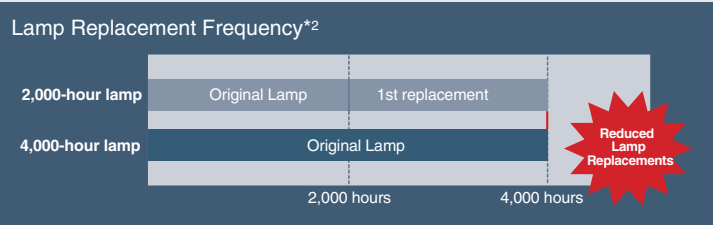
2000lm     4000lm

### Ultra Quiet 29dBA Operation

Fan noise emanating from a projector can get annoying during a presentation or videoconference, but now that's a thing of the past. The FL6900U offers a significantly low noise level of only 29dBA (Low lamp mode). As a result, your audience can enjoy the presentation or conference without noisy distractions from the projector.

### Long 4000hrs Lamp Life

Designed with a lamp temperature controlling system, the FL6900U can support a lamp life of up to 4000 hours[*1]. A long lamp life makes dramatic reductions in overall cost of ownership by decreasing the frequency of lamp replacements.

**Lamp Replacement Frequency[*2]**

| | | |
|---|---|---|
| 2,000-hour lamp | Original Lamp | 1st replacement |
| 4,000-hour lamp | Original Lamp | Reduced Lamp Replacements |
| | 2,000 hours | 4,000 hours |

(*1): When used in Low lamp mode. Maximum lamp life at standard mode use is 2,000 hours. (*2): Lamp life refers to the average time required for brightness to be reduced by half, and not the time specified in the warranty. Use time may vary widely by the environment and conditions, and whether or not cleaning and other maintenance procedures are followed.

### Enhanced Connectivity with RJ-45

A RJ-45 connector provides an audio-visual manager with the ease of LAN control. Using the included software, you can manage the projectors on your network. An automatic alert can be sent via email to notify you if a projector needs attention.

### sRGB

Developed to ensure standard, uniform color reproduction regardless of the type of display used, sRGB color profile technology uses independent color coordinates common to all display technologies. As a result, it helps to eliminate hue variations that occur between different display systems and more accurately matches the way colors look in real life.

Non-sRGB     Original     sRGB

### Projector View (Diagnostic System)

To monitor projectors and facilitate maintenance, incorporated diagnostic system provides control over key projector functions such as power on/off as well as warnings for operating temperature and filter clogging. Controlled via a master PC, this system is ideal for a Local Area Network (LAN) for both academic and business environments.

ROOM101     FL6900U     ROOM202     FL6900U

Local Area Network

Projector View , PC Monitoring Station
Remote access to Projector View can be launched via the Internet

Projector View , PC Monitoring Station
A PC with web browser