**New**

8000
SERIES

UD8400U
WD8200U/WD8200LU
XD8100U/XD8100LU

Connection Terminals

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. 3G-SDI (UD8400U only)
10. LAN (RJ-45)
11. Power in (3-pin with earth terminal)
12. Main power switch O:Off I:On

(UD8400U)

Dimensions (unit: mm)

342 · 142 · 192 · 240 · 192 · 421 · 506 · 490 · 120

HOLES FOR HANGER (4 PLACES) [M4XDEPTH 10]
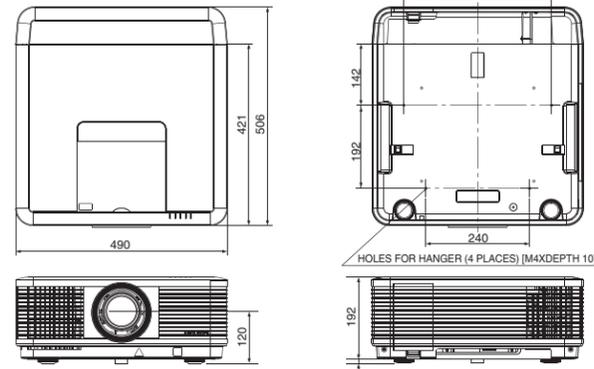
* The lens focal point is the default set at the time of shipment from the factory.

Changes for the Better

MITSUBISHI ELECTRIC
MULTIMEDIA DATA/VIDEO PROJECTORS

PICTURE BY **DLP** TEXAS INSTRUMENTS

FILTER STATUS 2◄LAMP►1 POWER

The Pinnacle of Digital Projectors

Image Quality, Functionality & Reliability – The bar has just been raised a level higher.

New

UD8400U

WD8200U/WD8200LU

XD8100U/XD8100LU

Specifications

Model	UD8400U	WD8200U / WD8200LU	XD8100U / XD8100LU
Display technology	0.67" 1-Chip DMD	0.65" 1-Chip DMD	0.7" 1-Chip DMD
Resolution	1920 x 1200 (Total 2,304,000 pixels)	1280 x 800 (Total 1,024,000 pixels)	1024 x 768 (Total 786,432 pixels)
Brightness	Dual lamp: 6500 lm / Single lamp: 3250 lm	Dual lamp: 6500 lm / Single lamp: 3250 lm	Dual lamp: 7000 lm / Single lamp: 3500 lm
Contrast ratio	2000 : 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"		
Throw ratio	4.65-2.27	1.74-2.39	1.73-2.36

Source lamp

Dual (330W × 2)	Lamp mode	hour		Single (330W × 1)	Lamp mode	hour
	Normal	2,000 hours			Normal	4,000 hours
	Low	4,000 hours			Low	8,000 hours

Computer compatibility	Resolution: 640 x 400 - 1920 x 1200 True: 1920 x 1200, Sync-on-Green available	Resolution: 640 x 400 - 1920 x 1200 True: 1280 x 800, Sync-on-Green available	Resolution: 640 x 400 - 1920 x 1200 True: 1024 x 768, 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 Color) × 1 3G-SDI × 1 (UD8400U 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 (ø3.5mm stereo mini jack), Wired remote (out): × 1 (ø3.5mm stereo mini jack), Remote: D-sub 9-pin (female) × 1		
Dimensions (W × H × D)	19.3" x 7.9" x 16.6" (exclude detachable terminal cover and protrusion)		
Weight	35.3 lbs (exclude detachable terminal cover)		
Power supply	AC 100 - 240 V, 50/60Hz		
Included Accessories	AC Power Cable, RGB cable, RS-232C cable, Terminal-Cover, Remote Unit (incl. Battery), User Manual CD, Safety Manual, Labels for ceiling mount usage		
Warranty	3-Years or 10,000 hours (whichever comes first) Limited P&L Warranty, Express Replacement Assistance (ERA) during the warranty period, 1-yr or 500hrs lamp warranty (whichever comes first)		

*Varies depending on condition. *All brand names and product names are trademarks, registered trademarks or trade names of their respective holders. *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. *The above specifications are for the standard model only. Specifications are different for lens-less models. *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.

eco Changes · **for a greener tomorrow**

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

eco Changes · for a greener tomorrow

LIT8000SERIES

New publication, effective December 2010.
Specifications subject to change without notice.

Brilliant Support for Various Presentation Venues

including business, education and entertainment

New

UD8400U
WD8200U / WD8200LU
XD8100U / XD8100LU

Imagine a long presentation or seminar in a large, bright room like a hall or auditorium. The impact of that presentation will depend on the performance of the projector you use. To ensure reliable performance, these projectors are equipped with digital light processing (DLP™) technology that reproduces high-definition images in high contrast and with superior brightness.

Built for durability and easy installation and maintenance, they last and last with minimal upkeep. The 8000 Series are equipped with dual lamps, allowing the continuous projection of images for long periods of time together with greatly increased reliability.

For installation models, our aim was to ensure an advanced level of performance essential for such units.

High Brightness
Powerful Large-screen Images in Well-lit Halls/Auditoriums

7000lm High Brightness*

The XD8100U delivers a super bright 7000 lumen* brightness level for presenting in large meeting rooms and conference halls.

*Maximum brightness of WD8200U and UD8400U is 6500 lumens.
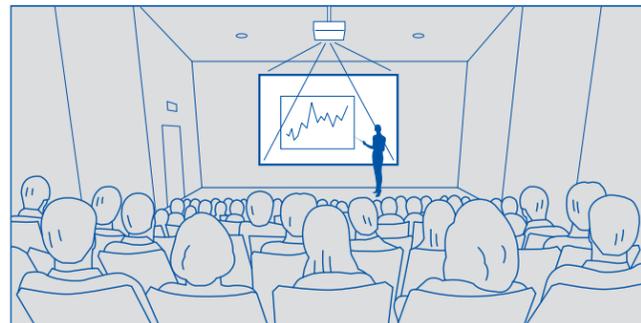
High Image Quality
Cutting-edge Technologies Reproduce Strikingly Sharp Images

Super Resolution

These projectors are equipped with Mitsubishi Electric's industry-leading, advanced image-processing algorithm, which is also used in our televisions and displays. The technology analyzes 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 in fine detail.

Low-resolution image

Estimation of resolution compensation data

High resolution data that does not exist in the enlarged image is estimated by Mitsubishi's proprietary image processing algorithm.

Enlargement

Enlarged image (original)

Compensation

Image processed by Super Resolution
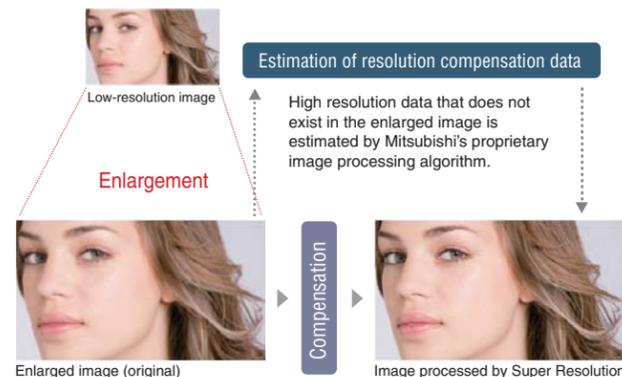
High Reliability
Durable and Reliable – Continuous 24/7 Use Capability

The dual lamp system and lamp relay function enables 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.

Dual lamp and lamp relay function

24 hours a day, 7 days a week
Anxiety-free continuous operation

Automatic cleaning filter

Heat-pipe cooling system
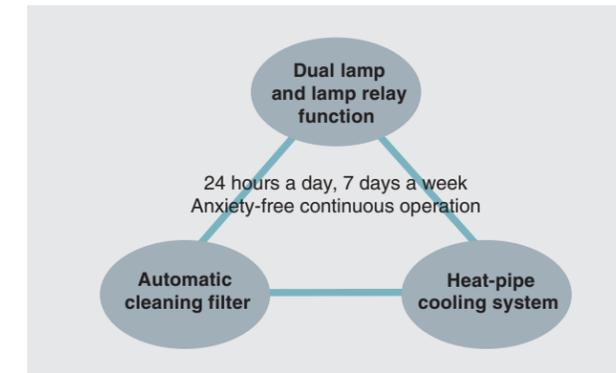
Various Lamp Relay Options

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.

Resting on a weekly basis

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Lamp A							
Lamp B							

Resting on a daily basis

	1st day			2nd day			3rd day		
Lamp A									
Lamp B									
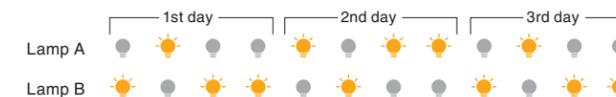
Automatic Cleaning Filter

For 8000 Series, 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 is utilized.

It automatically prevents dust from building up in the radiator of the heat-pipe cooling unit for the digital micromirror device (DMD), thereby ensuring trouble-free use for extended periods of time.

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 reduced costs. Not only is it highly reliable, other benefits include exceptional energy savings, quiet operation and no concerns of liquid leakage.

Long 4000hrs Lamp Life

Designed with a lamp temperature controlling system, 8000 Series 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.
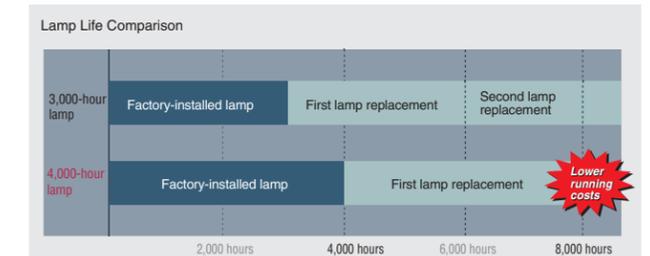
Lamp Life Comparison

3,000-hour lamp	Factory-installed lamp	First lamp replacement	Second lamp replacement	
4,000-hour lamp	Factory-installed lamp	First lamp replacement		Lower running costs
	2,000 hours	4,000 hours	6,000 hours	8,000 hours

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.

Advanced Features for Increased Expressiveness and Operation Ease

Ultra Quiet 28dB Operation

Fan noise due to projector operation can be distracting during a presentation or videoconference. The 8000 Series projectors operate at a significantly low noise level of only 28dB (i.e., using a single 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

- 20dB : Rustling leaves, the ticking of a wall clock (from 1m in front)
- 30dB : A whisper, a suburban area very late at night
- 40dB : A quiet neighborhood, small birds chirping

28dB
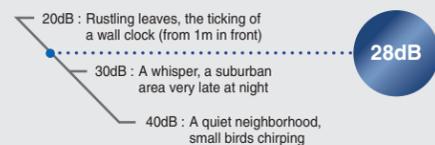
Geometric Corrections

■ 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.

screen
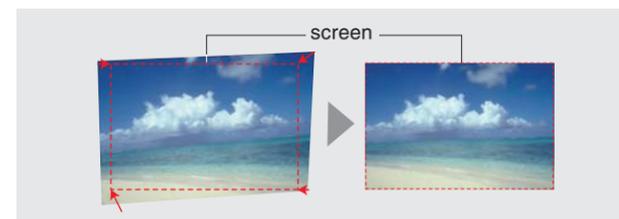
■ Curved-surface Projection Correction
Projectors in the 8000 series are equipped with a distortion correction function that can be used when projecting images onto curved surfaces. Coordinates at the image's four corners are adjusted, enabling the projection angle to be adjusted at the time of angled or stacked projection. It is extremely handy for unique applications like projecting images onto special surfaces such as pillars at event sites.

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.

Edge blending function

Image overlap apparent

With edge blending

Without edge blending
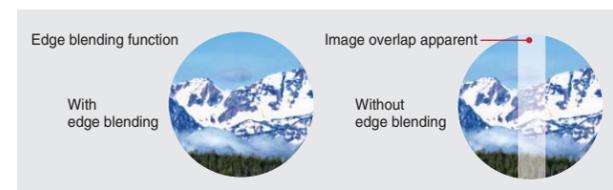
Multiple projectors side-by-side
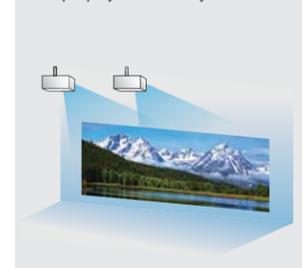
Multiple projectors top-bottom
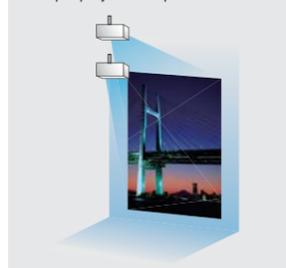
■ Color Matching
The use of multiple projectors to create a larger image can result in color variations due to slight differences in projector image processing. 8000 Series projectors are equipped with a color matching function that resolves this problem. Each projector is adjusted so that the same colors are reproduced when multiple projectors are used simultaneously.

Color matching function
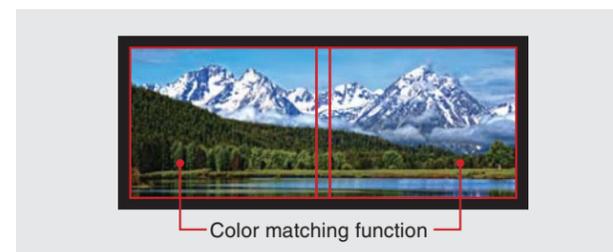
Interchangeable Color Wheels [Optional]

Projectors come equipped with a color wheel that accentuates brightness, and an optional color wheel for accentuating color is available. A sensor-based detection function is embedded in each unit to detect when a color wheel is replaced, at which time the color wheel index is automatically adjusted. This interchangeability enables a more appropriate expression of the images being reproduced.

360° Projection Capability

Images can be projected over a full 360° range along the vertical axis* including reproduction on the ceiling or floor. The application possibilities are limitless.
*Excluding use in high-altitude mode.

360°

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 8000 Series are 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 3G-SDI (UD8400U only), DVI-D (HDCP), HDMI and 5BNC. A control terminal (compatible with RS-232C) is also provided for easier system integration.

(UD8400U)

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.

Power Zoom/Focus and Lens Shift

The zoom/focus and lens shift adjustment are powered by an electric motor, ensuring easy operation.

Stand-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.

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.

- ●OSD menu multilanguage compatibility (19 languages*)
- ●2-Screen mode (PinP: XD8100U   Split: WD8200U, UD8400U)
- ●Direct power off
- ●Test pattern
- ●High-altitude mode (2,000 to 2,700 m)
- ●Closed caption support

*Previous languages: Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Swedish

Languages added: Dutch, Indonesian, Malaysian, Norwegian, Thai, Turkish, Vietnamese

UD8400U

Standard Lens (Aspect 16:10)

Image (WUXGA)						Distance from Screen				Default Height Projected Image (HO)	Movable V Position from Default Position				Movable H Position from Default Position			
Diagonal Size		Width		Height		Shortest (Wide)		Longest (Tele)			H1	H2	H1	H2	W1	W1	W1	W1
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm		inch		cm	inch		cm
40	102	34	86	21	54	55	1.4	76	1.9	0	0	10←0→4		26←0→10		3←0→3		8←0→8
60	152	51	129	32	81	83	2.1	115	2.9	0	0	15←0→6		39←0→15		5←0→5		12←0→12
80	203	68	172	42	108	112	2.8	154	3.9	0	0	21←0→8		52←0→20		7←0→7		17←0→17
100	254	85	215	53	135	141	3.6	193	4.9	0	0	26←0→10		66←0→25		8←0→8		21←0→21
150	381	127	323	79	202	213	5.4	291	7.4	0	0	39←0→15		98←0→37		12←0→12		31←0→31
200	508	170	431	106	269	285	7.2	389	9.9	0	0	52←0→20		131←0→50		16←0→16		42←0→42
250	635	212	538	132	337	356	9.1	–	–	0	0	65←0→24		164←0→62		20←0→20		52←0→52
300	762	254	646	159	404	428	10.9	–	–	0	0	77←0→29		197←0→75		25←0→25		62←0→62

Standard Lens (Aspect 16:9)

Image (1080p)						Distance from Screen				Default Height Projected Image (HO)	Movable V Position from Default Position				Movable H Position from Default Position			
Diagonal Size		Width		Height		Shortest (Wide)		Longest (Tele)			H1	H2	H1	H2	W1	W1	W1	W1
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm		inch		cm	inch		cm
40	102	35	89	20	50	56	1.4	78	2.0	1	3	11←0→4		27←0→10		3←0→3		9←0→9
60	152	52	133	29	75	86	2.2	118	3.0	2	4	16←0→6		40←0→15		5←0→5		13←0→13
80	203	70	177	39	100	115	2.9	158	4.0	2	6	21←0→8		54←0→20		7←0→7		17←0→17
100	254	87	221	49	125	145	3.7	198	5.0	3	7	27←0→10		67←0→26		8←0→8		21←0→21
150	381	131	332	74	187	219	5.6	299	7.6	4	11	40←0→15		101←0→38		13←0→13		32←0→32
200	508	174	443	98	249	293	7.4	399	10.1	6	14	53←0→20		135←0→51		17←0→17		43←0→43
250	635	218	553	123	311	366	9.3	–	–	7	18	66←0→25		168←0→64		21←0→21		53←0→53

OL-XD2000SZ (Aspect 16:10)

(table – Image WUXGA / Distance from Screen / Default Height / Movable V Position / Movable H Position)

OL-XD2000SZ (Aspect 16:9)

(table – Image 1080p / Distance from Screen / Default Height / Movable V Position / Movable H Position)

OL-XD2000LZ (Aspect 16:10)

(table – Image WUXGA)

OL-XD2000LZ (Aspect 16:9)

(table – Image 1080p)

OL-XD2000TZ (Aspect 16:10)

(table – Image WUXGA)

OL-XD2000TZ (Aspect 16:9)

(table – Image 1080p)

OL-XD8000UZ (Aspect 16:10)

(table – Image WUXGA)

OL-XD8000UZ (Aspect 16:9)

(table – Image 1080p)

OL-XD2000FR (Aspect 16:10)

Image (WXGA)						Distance from Screen		Default Height Projected Image (HO)	
Diagonal Size		Width		Height					
inch	cm	inch	cm	inch	cm	inch	m	inch	m
40	102	34	86	21	54	25	0.6	-11	-27
60	152	51	129	32	81	39	1.0	-16	-40
80	203	68	172	42	108	52	1.3	-21	-54
100	254	85	215	53	135	66	1.7	-26	-67
150	381	127	323	79	202	99	2.5	-40	-101

OL-XD2000FR (Aspect 16:9)

Image (XGA)						Distance from Screen		Default Height Projected Image (HO)	
Diagonal Size		Width		Height					
inch	cm	inch	cm	inch	cm	inch	m	inch	m
40	102	35	89	20	50	29	0.7	-10	-25
60	152	52	133	29	75	44	1.1	-15	-37
80	203	70	177	39	100	59	1.5	-20	-50
100	254	87	221	49	125	74	1.9	-25	-62
125	318	109	277	61	156	93	2.4	-31	-78

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

Screen Size and Projection Distance

Refer to the following table to determine the screen size and projection distance.

Front projection

Front projection, ceiling mounting

Optional Lenses

OL-XD2000SZ — Short-throw Zoom Lens

OL-XD2000LZ — Long-throw Zoom Lens

OL-XD2000TZ — Telescopic-throw Zoom Lens

Converter Lens (mounted on the standard lens)

Converter Lens (mounted on the standard lens)

OL-XD8000UZ — Ultra-telescopic-throw Zoom Lens

OL-XD2000FR — Rear-projection Short-throw Fixed Lens

WD8200U/WD8200LU

Standard Lens (Aspect 16:10)

(table – Image WXGA)

OL-XD2000TZ (Aspect 16:10)

(table – Image WXGA)

OL-XD2000SZ (Aspect 16:10)

(table – Image WXGA)

OL-XD8000UZ (Aspect 16:10)

(table – Image WXGA)

OL-XD2000LZ (Aspect 16:10)

(table – Image WXGA)

OL-XD2000FR (Aspect 16:10)

Image (WXGA)						Distance from Screen		Default Height Projected Image (HO)	
Diagonal Size		Width		Height					
inch	cm	inch	cm	inch	cm	inch	m	inch	m
40	102	34	86	21	54	27	0.7	-16	-27
60	152	51	129	32	81	41	1.0	-16	-40
80	203	68	172	42	108	55	1.4	-21	-54
100	254	85	215	53	135	69	1.8	-26	-67
150	381	127	323	79	202	104	2.6	-40	-101

XD8100U/XD8100LU

Standard Lens (Aspect 4:3)

(table – Image XGA)

OL-XD2000TZ (Aspect 4:3)

(table – Image XGA)

OL-XD2000SZ (Aspect 4:3)

(table – Image XGA)

OL-XD8000UZ (Aspect 4:3)

(table – Image XGA)

OL-XD2000LZ (Aspect 4:3)

(table – Image XGA)

OL-XD2000FR (Aspect 4:3)

Image (XGA)						Distance from Screen		Default Height Projected Image (HO)	
Diagonal Size		Width		Height					
inch	cm	inch	cm	inch	cm	inch	m	inch	m
40	102	32	81	24	61	25	0.6	-12	-30
60	152	48	122	36	91	38	1.0	-18	-46
80	203	64	163	48	122	51	1.3	-24	-61
100	254	80	203	60	152	64	1.6	-30	-76
150	381	120	305	90	229	97	2.5	-45	-114

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