

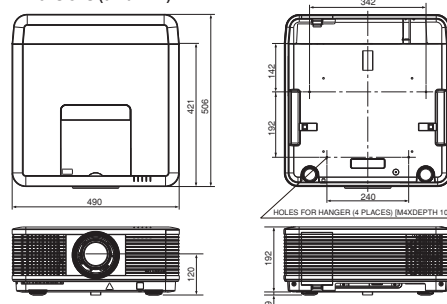


MITSUBISHI ELECTRIC
MULTIMEDIA DATA/VIDEO PROJECTORS

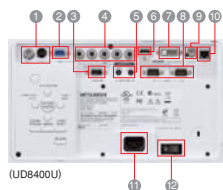


XD8100U
WD8200U
UD8400U

Dimensions (unit: mm)



*The lens focal point is the default set at the time of shipment from the factory.



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 1:On

Specifications

Model	UD8400U	WD8200U	XD8100U																				
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 (Maximum)	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"																						
Source lamp	<table border="1"> <thead> <tr> <th rowspan="2">Dual (330W x 2)</th> <th colspan="2">Lamp mode</th> <th rowspan="2">hour</th> </tr> <tr> <th>Normal</th> <th>Low</th> </tr> </thead> <tbody> <tr> <td></td> <td>2,000 hours</td> <td>4,000 hours</td> <td></td> </tr> </tbody> </table>		Dual (330W x 2)	Lamp mode		hour	Normal	Low		2,000 hours	4,000 hours		<table border="1"> <thead> <tr> <th rowspan="2">Single (330W x 1)</th> <th colspan="2">Lamp mode</th> <th rowspan="2">hour</th> </tr> <tr> <th>Normal</th> <th>Low</th> </tr> </thead> <tbody> <tr> <td></td> <td>4,000 hours</td> <td>8,000 hours</td> <td></td> </tr> </tbody> </table>	Single (330W x 1)	Lamp mode		hour	Normal	Low		4,000 hours	8,000 hours	
Dual (330W x 2)	Lamp mode			hour																			
	Normal	Low																					
	2,000 hours	4,000 hours																					
Single (330W x 1)	Lamp mode		hour																				
	Normal	Low																					
	4,000 hours	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 x 1, mini D-sub 15-pin x 1, DVI-D (with HDCP) x 1 Video: BNC x 1, S-Video (4-pin) x 1, HDMI (Ver 1.3, Deep Color) x 1 3G-SDI x 1 (UD8400U only)																						
Communication terminals	LAN (RJ-45): x 1 (projector control), SERIAL (in): D-sub 9-pin (male) x 1 (direct command is available), SERIAL (out): D-sub 9-pin (male) x 1 (direct command is available), Wired remote (in): x 1 (ø3.5mm stereo mini jack), Wired remote (out): x 1 (ø3.5mm stereo mini jack), Remote: D-sub 9-pin (female) x 1																						
Dimensions (W x H x D)	490 x 201 x 421mm / 19.3 x 7.9 x 16.6 inch (exclude detachable terminal cover and protrusion)																						
Weight	16.0kg / 35.3 lbs (exclude detachable terminal cover)																						
Power supply	AC 100 - 240V, 50/60Hz																						

*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.



The Pinnacle of Digital Projectors

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

XD8100U / WD8200U / UD8400U

MITSUBISHI ELECTRIC AUSTRALIA PTY LTD

348 Victoria Rd Rydalmere, NSW 2116 Phone: (02) 9684 7777 Fax: (02) 9684 7208

To find out more about the UD8400U/WD8200U/XD8100U and other projectors, visit us at

www.MitsubishiElectric.com.au

Brilliant Support for Various Presentation Venues

including business, education and entertainment

XD8100U/WD8200U/UD8400U



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 that nothing goes wrong, 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 combined with greatly increased reliability.

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

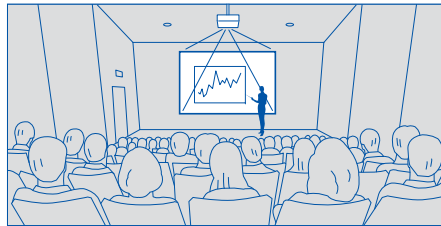
High Brightness

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

7000lm High Brightness*

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

*Maximum brightness of WD8200U and UD8400U is 6500 lumens.

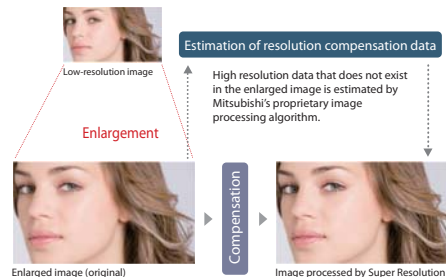


High Image Quality

Cutting-edge Technologies Reproduce Strikingly Sharp Images

Super Resolution

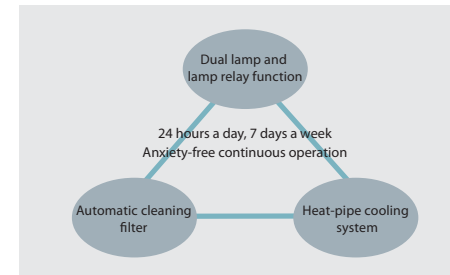
These projectors are equipped with Mitsubishi Electric's industry-leading advanced image-processing algorithm, which is also used in our televisions and displays. The technology analyses blurred components in the original images, estimates high-resolution data not provided in the original signal and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



High Reliability

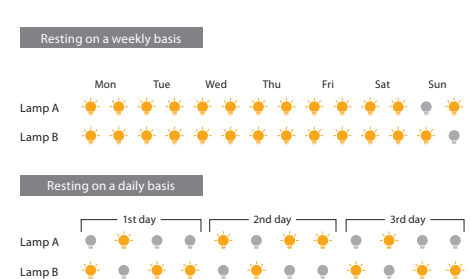
Durable and Reliable – Continuous 24/7 Use Capability

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 Mitsubishi Electric air conditioners, enabling extended continuous use for monitoring and digital signage applications.



Various Lamp Relay Options

Continuous, bright projection is ensured through the utilisation 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.



Automatic Cleaning Filter

For the 8000 Series, we've utilised 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 micromirror device (DMD), thereby ensuring trouble-free use for extended periods of time.

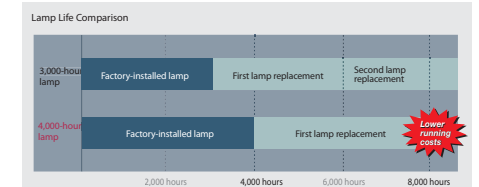


Heat-pipe Cooling System

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 cost reductions. Not only is it highly reliable, other benefits include exceptional energy savings, quiet operation and elimination of concerns regarding liquid leaking.

Long 4000hrs Lamp Life

Designed with a lamp temperature controlling system, the 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 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.



For Board Rooms, Conference Halls



For Digital Signage

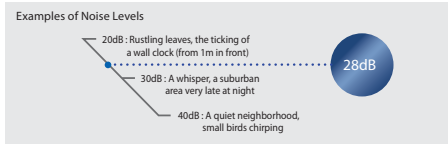
For Auditoriums



Ample Features for Increased Expressiveness and Operation Ease

Ultra Quiet 28dB Operation

Projector fan noise can be distracting during a presentation or videoconference. Falcon 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.



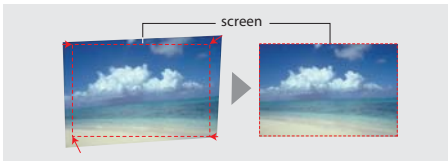
Geometric Corrections

Keystone Correction

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

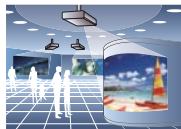
Cornerstone Correction

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



Curved-surface Projection Correction

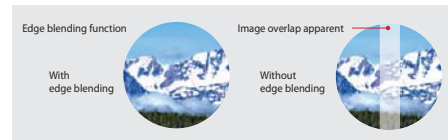
Projectors in the Falcon series are equipped with a distortion correction function that can be used when projecting images onto curved surfaces. Coordinates at the image's four corners are adjusted, enabling the projection angle to be adjusted. It is extremely handy for unique applications like projecting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



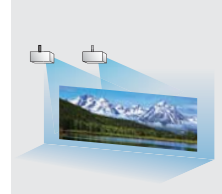
Multi-screen Solutions

Edge Blending

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



Multiple projectors side-by-side

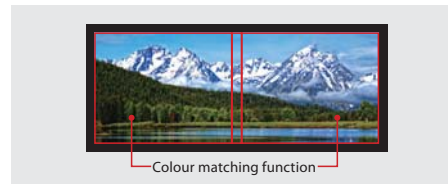


Multiple projectors top-bottom



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. Falcon series projectors are 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.



Interchangeable Colour Wheels

Optional

Falcon series projectors come equipped with a colour wheel that accentuates brightness, and an optional colour wheel for accentuating colour is also available. A sensor-based detection function is embedded in each unit to detect when a colour wheel is replaced, at which time the colour 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.

Network Connectivity

The 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 Falcon series are equipped with AMX Device Discovery for simplified device management and are 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.



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 multilingual 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

UD8400

Standard Lens (Aspect 16:10)

Image (WXGA)		Distance from Screen		Default Height		Movable V Position from Default Position		Movable H Position from Default Position									
Diagonal Size	Width	Height	Shortest (Wide)	Longest (Tall)	Projected Image (HxV)	H1	H2	H1	H2	W1	W2	W1	W2				
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm				
40	102	34	86	21	54	1.1	5.9	1.5	0	10	-0-4	26	-0-10	3	-0-3	8	-0-8
60	152	51	129	32	81	1.6	8.7	2.3	0	15	-0-6	39	-0-15	5	-0-5	12	-0-12
80	203	68	172	42	108	1.8	11.8	3.3	0	21	-0-8	52	-0-20	7	-0-7	17	-0-17
100	254	85	215	53	136	1.9	14.6	3.9	0	26	-0-10	66	-0-25	8	-0-8	21	-0-21
150	381	127	323	79	202	2.1	21.3	5.4	0	39	-0-15	98	-0-37	12	-0-12	31	-0-31
200	508	170	431	106	269	2.5	27.7	6.9	0	52	-0-20	131	-0-50	16	-0-16	42	-0-42
250	635	212	538	132	337	2.7	35.9	9.1	0	65	-0-24	164	-0-62	20	-0-20	52	-0-52
300	762	254	646	159	404	2.9	45.8	11.9	0	77	-0-29	197	-0-75	25	-0-25	62	-0-62

OL-XD2000SZ (Aspect 16:10)

Image (WXGA)		Distance from Screen		Default Height		Movable V Position from Default Position		Movable H Position from Default Position									
Diagonal Size	Width	Height	Shortest (Wide)	Longest (Tall)	Projected Image (HxV)	H1	H2	H1	H2	W1	W2	W1	W2				
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm				
40	102	34	86	21	54	1.1	5.9	1.5	0	10	-0-4	26	-0-10	3	-0-3	8	-0-8
60	152	51	129	32	81	1.6	8.7	2.3	0	15	-0-6	39	-0-15	5	-0-5	12	-0-12
80	203	68	172	42	108	1.8	11.8	3.3	0	21	-0-8	52	-0-20	7	-0-7	17	-0-17
100	254	85	215	53	136	1.9	14.6	3.9	0	26	-0-10	66	-0-25	8	-0-8	21	-0-21
150	381	127	323	79	202	2.1	21.3	5.4	0	39	-0-15	98	-0-37	12	-0-12	31	-0-31
200	508	170	431	106	269	2.5	27.7	6.9	0	52	-0-20	131	-0-50	16	-0-16	42	-0-42
250	635	212	538	132	337	2.7	35.9	9.1	0	65	-0-24	164	-0-62	20	-0-20	52	-0-52
300	762	254	646	159	404	2.9	45.8	11.9	0	77	-0-29	197	-0-75	25	-0-25	62	-0-62

OL-XD2000LZ (Aspect 16:10)

Image (WXGA)		Distance from Screen		Default Height		Movable V Position from Default Position		Movable H Position from Default Position									
Diagonal Size	Width	Height	Shortest (Wide)	Longest (Tall)	Projected Image (HxV)	H1	H2	H1	H2	W1	W2	W1	W2				
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm				
40	102	34	86	21	54	1.1	5.9	1.5	0	10	-0-4	26	-0-10	3	-0-3	8	-0-8
60	152	51	129	32	81	1.6	8.7	2.3	0	15	-0-6	39	-0-15	5	-0-5	12	-0-12
80	203	68	172	42	108	1.8	11.8	3.3	0	21	-0-8	52	-0-20	7	-0-7	17	-0-17
100	254	85	215	53	136	1.9	14.6	3.9	0	26	-0-10	66	-0-25	8	-0-8	21	-0-21
150	381	127	323	79	202	2.1	21.3	5.4	0	39	-0-15	98	-0-37	12	-0-12	31	-0-31
200	508	170	431	106	269	2.5	27.7	6.9	0	52	-0-20	131	-0-50	16	-0-16	42	-0-42
250	635	212	538	132	337	2.7	35.9	9.1	0	65	-0-24	164	-0-62	20	-0-20	52	-0-52
300	762	254	646	159	404	2.9	45.8	11.9	0	77	-0-29	197	-0-75	25	-0-25	62	-0-62

OL-XD2000TZ (Aspect 16:10)

Image (WXGA)		Distance from Screen		Default Height		Movable V Position from Default Position		Movable H Position from Default Position									
Diagonal Size	Width	Height	Shortest (Wide)	Longest (Tall)	Projected Image (HxV)	H1	H2	H1	H2	W1	W2	W1	W2				
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm				
40	102	34	86	21	54	1.1	5.9	1.5	0	10	-0-4	26	-0-10	3	-0-3	8	-0-8
60	152	51	129	32	81	1.6	8.7	2.3	0	15	-0-6	39	-0-15	5	-0-5	12	-0-12
80	203	68	172	42	108	1.8	11.8	3.3	0	21	-0-8	52	-0-20	7	-0-7	17	-0-17
100	254	85	215	53	136	1.9	14.6	3.9	0	26	-0-10	66	-0-25	8	-0-8	21	-0-21
150	381	127	323	79	202	2.1	21.3	5.4	0	39	-0-15	98	-0-37	12	-0-12	31	-0-31
200	508	170	431	106	269	2.5	27.7	6.9	0	52	-0-20	131	-0-50	16	-0-16	42	-0-42
250	635	212	538	132	337	2.7	35.9	9.1	0	65	-0-24	164	-0-62	20	-0-20	52	-0-52
300	762	254	646	159	404	2.9	45.8	11.9	0	77	-0-29	197	-0-75	25	-0-25	62	-0-62

OL-XD8000UZ (Aspect 16:10)

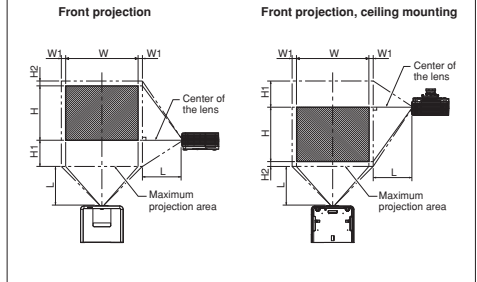
Image (WXGA)		Distance from Screen		Default Height		Movable V Position from Default Position		Movable H Position from Default Position									
Diagonal Size	Width	Height	Shortest (Wide)	Longest (Tall)	Projected Image (HxV)	H1	H2	H1	H2	W1	W2	W1	W2				
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm				
40	102	34	86	21	54	1.1	5.9	1.5	0	10	-0-4	26	-0-10	3	-0-3	8	-0-8
60	152	51	129	32	81	1.6	8.7	2.3	0	15	-0-6	39	-0-15	5	-0-5	12	-0-12
80	203	68	172	42	108	1.8	11.8	3.3	0	21	-0-8	52	-0-20	7	-0-7	17	-0-17
100	254	85	215	53	136	1.9	14.6	3.9	0	26	-0-10	66	-0-25	8	-0-8	21	-0-21
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250	635	212	538	132	337	2.7	35.9	9.1	0	65	-0-24	164	-0-62	20	-0-20	52	-0-52
300	762	254	646	159	404	2.9	45.8	11.9	0	77	-0-29	197	-0-75	25	-0-25	62	-0-62

OL-XD2000FR (Aspect 16:10)

Image (WXGA)		Distance from Screen		Default Height		Movable V Position from Default Position		Movable H Position from Default Position									
Diagonal Size	Width	Height	Shortest (Wide)	Longest (Tall)	Projected Image (HxV)	H1	H2	H1	H2	W1	W2	W1	W2				
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm				
40	102	34	86	21	54	1.1	5.9	1.5	0	10	-0-4	26	-0-10	3	-0-3	8	-0-8
60	152	51	129	32	81	1.6	8.7	2.3	0	15	-0-6	39	-0-15	5	-0-5	12	-0-12
80	203	68	172	42	108	1.8	11.8	3.3	0	21	-0-8	52	-0-20	7	-0-7	17	-0-17
100	254	85	215	53	136	1.9	14.6	3.9	0	26	-0-10	66	-0-25	8	-0-8	21	-0-21
150	381	127	323	79	202	2.1	21.3	5.4	0	39	-0-15	98	-0-37	12	-0-12	31	-0-31

Screen Size and Projection Distance

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



Standard Lens (Aspect 16:9)

Image (1080p)		Distance from Screen		Default Height		Movable V Position from Default Position		Movable H Position from Default Position									
Diagonal Size	Width	Height	Shortest (Wide)	Longest (Tall)	Projected Image (HxV)	H1	H2	H1	H2	W1	W2	W1	W2				
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm				
40	102	35	89	20	50	1.56	4.0	1	3	11	-0-4	27	-0-10	3	-0-3	9	-0-9
60	152	52	133	29	75	1.6	4.2	1.5	4	16	-0-6	40	-0-15	5	-0-5	13	-0-13
80	203	70	177	39	100	1.9	4.8	2.0	6	21	-0-8	54	-0-20	7	-0-7	17	-0-17
100	254	87	221	49	125	2.4	6.1	2.7	8	27	-0-10	67	-0-26	8	-0-8	21	-0-21
150	381	131	332	74	187	2.9	7.5	3.3	11	40	-0-15	101	-0-38	13	-0-13	32	-0-32
200	508	174	443	98	249	3.5	9.1	4.0	14	53	-0-20	135	-0-51	17	-0-17	43	-0-43
250	635	218	553	123	311	3.9	10.2	4.5	18	66	-0-25	168	-0-64	21	-0-21	53	-0-53

OL-XD2000SZ (Aspect 16:9)

Image (1080p)		Distance from Screen		Default Height		Movable V Position from Default Position		Movable H Position from Default Position									
Diagonal Size	Width	Height	Shortest (Wide)	Longest (Tall)	Projected Image (HxV)	H1	H2	H1	H2	W1	W2	W1	W2				
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm				
40	102	35	89	20	50	1.56	4.0	1	3	11	-0-4	27	-0-10	3	-0-3	9	-0-9
60	152	52	133	29	75	1.6	4.2	1.5	4	16	-0-6	40	-0-15	5	-0-5	13	-0-13
80	203	70	177	39	100	1.9	4.8	2.0	6	21	-0-8	54	-0-20	7	-0-7	17	-0-17
100	254	87	221	49	125	2.4	6.1	2.7	8	27	-0-10	67	-0-26	8	-0-8	21	-0-21
150	381	131	332	74	187	2.9	7.5	3.3	11	40	-0-15	101	-0-38	13	-0-13	32	-0-32
200	508	174	443	98	249	3.5	9.1	4.0	14	53	-0-20	135	-0-51	17	-0-17	43	-0-43
250	635	218	553	123	311	3.9	10.2	4.5	18	66	-0-25	168	-0-64	21	-0-21	53	-0-53

OL-XD2000LZ (Aspect 16:9)

Image (1080p)		Distance from Screen		Default Height		Movable V Position from Default Position		Movable H Position from Default Position									
Diagonal Size	Width	Height	Shortest (Wide)	Longest (Tall)	Projected Image (HxV)	H1	H2	H1	H2	W1	W2	W1	W2				
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm				
40	102	35	89	20	50	1.56	4.0	1	3	11	-0-4	27	-0-10	3	-0-3	9	-0-9
60	152	52	133	29	75	1.6	4.2	1.5	4	16	-0-6	40	-0-15	5	-0-5	13	-0-13
80	203	70	177	39	100	1.9	4.8	2.0	6	21	-0-8	54	-0-20	7	-0-7	17	-0-17
100	254	87	221	49	125	2.4	6.1	2.7	8	27	-0-10	67	-0-26	8	-		