





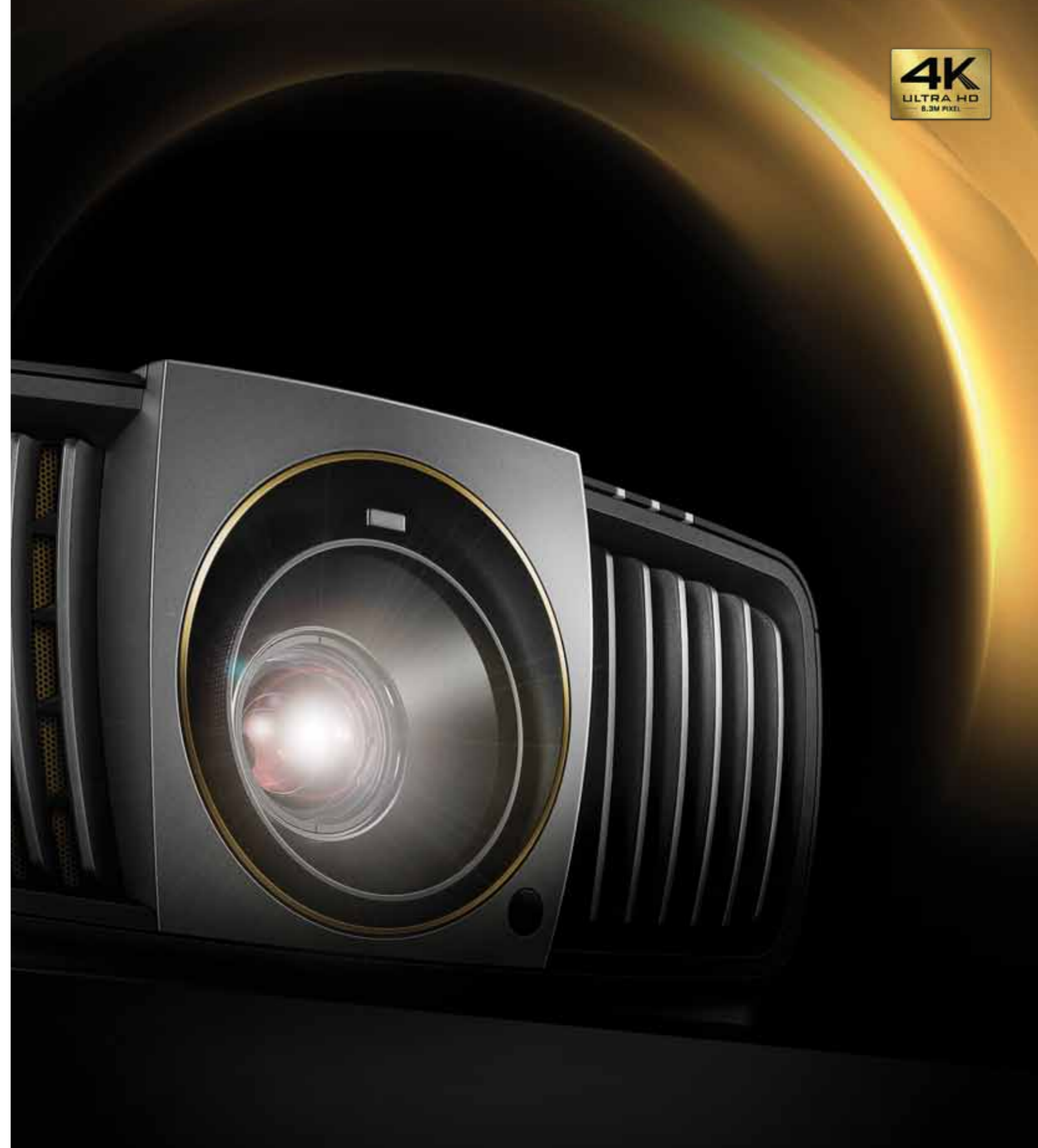




	<b>XI2000</b> 	<b>WI1000</b> 	<b>W8000</b> 
<b>FEATURES</b>	4K UHD Resolution, 8.3 Million Pixels, DCI-P3, ColorSpark HLD LED Technology, ISFccc calibration, 4K Upscaling from 1080p	4K UHD Resolution, 8.3 Million Pixels, Rec.709, THX HD Display Certification, ISFccc calibration, 4K Upscaling from 1080p	THX HD Display Certification, Rec.709, Optional Lens, CinemaMaster technology, Horizontal/Vertical lens shift, ISFccc calibration
<b>PROJECTION SYSTEM</b>	DLP 4K UHD	DLP 4K UHD	DLP
<b>NATIVE RESOLUTION</b>	3840 x 2160 with XPR technology	3840 x 2160 with XPR technology	1080p (1920 x 1080)
<b>BRIGHTNESS (ANSI LUMENS)</b>	2200 lm	2200 lm	2000 lm
<b>CONTRAST RATIO</b>	50,000 :1 with Dynamic Iris	50,000 :1 with Dynamic Iris	50,000 :1 with Dynamic Iris
<b>DISPLAY COLOR</b>	1.07 Billion Colors	1.07 Billion Colors	1.07 Billion Colors
<b>LENS</b>	F=2.05~2.37 f= 20.54~30.31	F=2.05~2.37 f= 20.54~30.31	Standard Lens* - F=2.46~2.56 f=22.8~28.5mm
<b>ASPECT RATIO</b>	16:9	16:9	16:9
<b>THROW RATIO</b>	1.37:1~2.06:1 (100" @ 3m)	1.37:1~2.06:1 (100" @ 3m)	Standard Lens* - 1.54:1~1.93:1
<b>CLEAR IMAGE SIZE / MAXIMUM IMAGE SIZE</b>	95"~180" / 300"	95"~180" / 300"	Standard Lens* - 35"~205" / 300"
<b>ZOOM RATIO</b>	1.5:1	1.5:1	Standard Lens* - 1.25:1
<b>LAMP TYPE</b>	PHILIPS HLD	240W	280W
<b>LAMP MODE</b> (NORMAL / ECO / SmartEco)	20,000 hours**	3000 / 4000 / 6000 hours**	2500 / 3500 / 6000 hours**
<b>LENS SHIFT</b>	Vertical: ± 65% / Horizontal: ± 27%	Vertical: ± 65% / Horizontal: ± 27%	Standard Lens* - Vertical -20%~60%, Horizontal ±5%
<b>COLOR SPACE</b>	DCI-P3	Rec. 709	Rec. 709
<b>RESOLUTION SUPPORT</b>	VGA (640 x 480) to 4K UHD (3840 x 2160)	VGA (640 x 480) to 4K UHD (3840 x 2160)	VGA (640 x 480) to WUXGA_RB (1920 x 1200) **RB = Reduced Blanking
<b>DIMENSIONS (W x H x D)</b>	470.7 x 224.9 x 564.7 mm	470.7 x 224.9 x 564.7 mm	431 x 167 x 321 mm
<b>WEIGHT</b>	18.5 kg	14.8 kg	8.8 kg
<b>AUDIBLE NOISE</b> (NORMAL ECONOMIC MODE)	31 / 23 dBA (under Silence Mode)	26 / 23 dBA (under Silence Mode)	31/28 dBA
<b>POWER CONSUMPTION</b>	Normal 530W, Eco 290W, Network Standby <3W, Standby <0.5W	Normal 353W, Eco 290W, Network Standby <6W, Standby <0.5W	Normal 370W, Eco 290W, Standby <0.5W
<b>COLOR WHEEL SEGMENT</b>	N/A	6-Segment (RGBRGB)	6-Segment (RGBRGB)
<b>COLOR WHEEL SPEED</b>	N/A	1x (120Hz)	6x (50Hz), 4x (60Hz)
<b>PICTURE MODES</b>	<b>ISF Disabled:</b> Bright / Vivid / Cinema / DCI-P3 / Game / User 1 / User 2 <b>ISF Enabled:</b> Bright / Vivid / Cinema / DCI-P3 / Game / User 1 / User 2 / ISF Night / ISF Day	<b>ISF Disabled:</b> Bright / Vivid / Cinema / THX / Silence / User 1 / User 2 <b>ISF Enabled:</b> Bright / Vivid / Cinema / THX / Silence / User 1 / User 2 / ISF Night / ISF Day	<b>ISF Disabled:</b> Bright / Vivid / THX / Game / User 1 / User 2 / (3D) <b>ISF Enabled:</b> Bright / Vivid / THX / Game / User 1 / User 2 / ISF Night / ISF Day
<b>ACCESSORIES (OPTIONAL)</b>	Ceiling Mount, Anamorphic lens	Spare Lamp Kit, Ceiling Mount, Anamorphic lens	Spare Lamp Kit, Ceiling Mount, Optional Lens, Wireless FHD Kit(WDP01 & WDP02)
<b>POWER SUPPLY</b>	AC100 to 240 V, 50 to 60 Hz	AC100 to 240 V, 50 to 60 Hz	AC100 to 240 V, 50 to 60 Hz
<b>INTERFACE</b>			



	<b>WIDE FIXED</b>	<b>WIDE ZOOM</b>	<b>STANDARD</b>	<b>SEMI LONG</b>	<b>LONG ZOOM</b>
<b>MODEL NAME</b>	LS2ST3	LS2ST1	LS2SD	LS2LT1	LS2LT2
<b>LENS</b>	F=2.5, f=11.5mm	F=2.05~2.27, f=16.64~19.5 mm	F=2.46~2.56, f=22.8~28.5mm	F=2.5~3.1, f=28.5~42.75mm	F=2.2~2.5, f=44.5~74.19mm
<b>ZOOM RATIO</b>	Fixed	1.18x	1.25x	1.5x	1.67x
<b>IMAGE SIZE</b>	30"~175"	35"~370"	35"~205"	31"~468"	27"~301"
<b>THROW RATIO</b>	0.778:1	1.1~1.3:1	1.54~1.93:1	1.93~2.9:1	3.0~5.0:1
<b>LENS SHIFT</b>	Vertical -20%~60%, Horizontal ±5%				

\*W8000 Optional Lens

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 \*\* Lamp life results will vary depending on environmental conditions and usage. Actual product's features and specifications are subject to change without notice.

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# Cinema Grade

## Home Cinema Projector Brochure 2017



# Cinematic Performance

to Your Own Home Cinema

Introducing **X12000**, **W11000** & **W8000**, the Ultimate selection of Home Cinema Projectors from BenQ, delivering an authentic reproduction of the director's vision, and rivalling the picture quality of a commercial digital cinema. Offering cinematic image quality with absolute **Rec. 709** and **DCI-P3** color accuracy for an ultra-realistic widescreen film viewing experience. With intelligent functionality and installation flexibility, X12000, W11000 & W8000 are comprehensively equipped to integrate seamlessly into any upscale home cinema.



## W8000

The world's only  
1080P Home Cinema Projector  
with **Optional Lens**



## W11000

The world's first  
**DLP 4K Ultra HD**  
Home Cinema Projector



## X12000

The world's first  
**DLP 4K Ultra HD LED**  
Home Cinema Projector



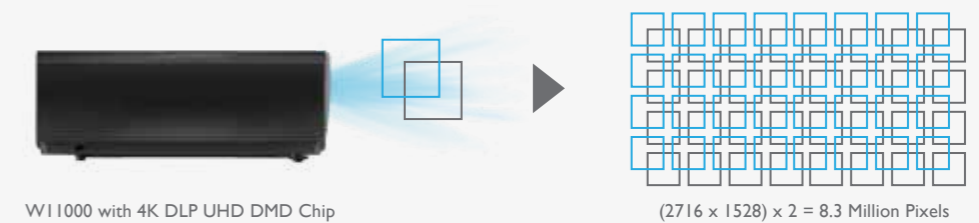
\* 4K UHD available on X12000 & W11000



## 4K Ultra HD

8.3 Million Pixels Performance for Perfect Pictures with Subtle Details

X12000 & W11000 harnesses the advanced **DLP 4K UHD DMD** with 2716 x 1528 (4.15 million) micromirrors to achieve Consumer Technology Association's (CTA) 4K UHD specification, utilizing XPR fast-switching technology via dual-position precision optical actuator with state-of-the-art image processing to double the resolution to 8.3 million distinct pixels for each frame.



- **Image Detail Integrity and Color Accuracy Without Artifacts**

With single DMD DLP technology to avoid inherent alignment issues of multiple panels, X12000 & W11000 present image integrity and accurate color, devoid of artifacting such as blur, shadowing, and interference patterns for immaculate clarity.



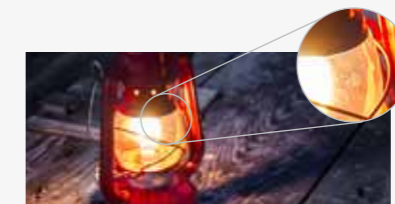
DLP 4K UHD Projector



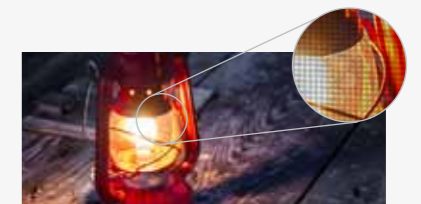
Non-DLP 4K UHD Projector

- **High Fill Factor**

Featuring class-leading high fill factor, pumps more light into each individual pixel for small-size text and fine details that are clearer than the competition. Because high fill factor minimizes the black borders around every pixel.



DLP 4K UHD Projector



Non-DLP 4K UHD Projector



**X12000**  
The World's First  
DLP 4K UHD LED Projector



# Revolutionary Technology for the Finest Cinematic Color

Equipped with the revolutionary Philips ColorSpark HLD LED technology, the advanced High Lumen Density phosphor module in tandem with high-brightness red and blue LEDs dramatically raises brightness, allowing X12000 to deliver a wider color gamut, generating up to 3X brighter front-of-screen performance compared to current LED technology, achieving 2,200 lumens for use in bright environments. Coupled with 20,000-hour long maintenance-free lamp life, X12000 ensures a long-lasting cinema enjoyment in your home.

ColorSpark 



- Superb DCI-P3 and Rec. 709 Cinematic Color Accuracy

W11000 & W8000 replicates stunningly authentic colors for an uncompromised cinematic experience using a precision-calibrated RGBRGB color wheel to achieve Rec. 709, the international HDTV standard.

As flagship model, X12000 takes color reproduction to the next level, achieving DCI-P3, a standard defined by the American film industry. Reproducing a wider color gamut, resulting a more superior & precise cinematic color performance as the film director originally intended.



\*ColorSpark available on X12000 only

# Pure Cinematic Performance with THX<sup>®</sup> HD Display Certification



## • Rec.709 Color Accuracy

Only displays that conform to Rec. 709 can reproduce colors correctly in all images through an entire movie.



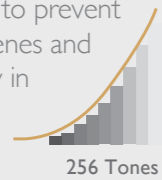
## • Ideal Color Temperature

Strictly adheres to ideal color temperatures to ensure true-to-life, cinematically accurate colors throughout every scene of any film.



## • Precise Gamma

Maintaining accurate gamma correction to deliver the perfect brightness balance for fine details and shading, with smooth greyscale performance to prevent overexposed bright scenes and preserve every subtlety in dark areas.



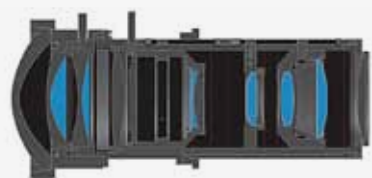
## • Super High Native Contrast

Native contrast ratio measures the ability of projectors to produce extreme levels of brightness and darkness. Producing clear deep, true blacks and resolves subtle layers and fine details in dark and bright scenes without washout.

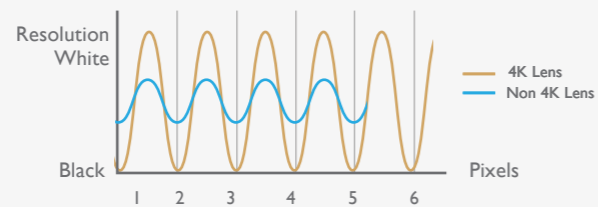


## • Sophisticated 4K-Optimized Lens System for Pure Clarity

With class-leading lens architecture, X12000 & W11000's premium 14-element optical system is specifically designed for spectacular 4K image quality, utilising extra low dispersion coatings to minimise chromatic aberration, offering True Zoom function for ultimate precision.



6-Element Lens With Extra Low Dispersion Coating



W8000 standard lens also adopts premium grade all-glass optical system with 2 extra low dispersion coated elements.

## • Dynamic Black Technology with Active Iris Control

Working to bring out subtle details in dark shadows and preventing washed out displays, Dynamic Black™ technology paired with Active Iris adjusts light output and contrast to achieve optimum performance according to the scene.



X12000



W11000



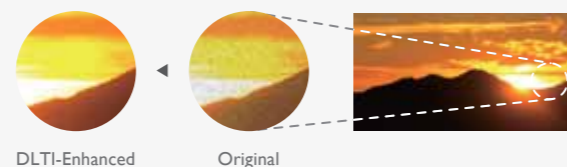
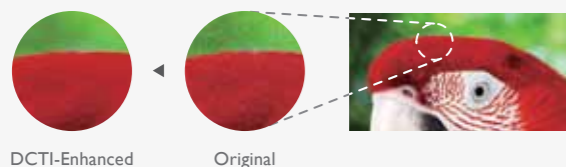
W8000

\*THX available on W11000 & W8000 only



## CinemaMaster™ turns any room into a world-class home cinema

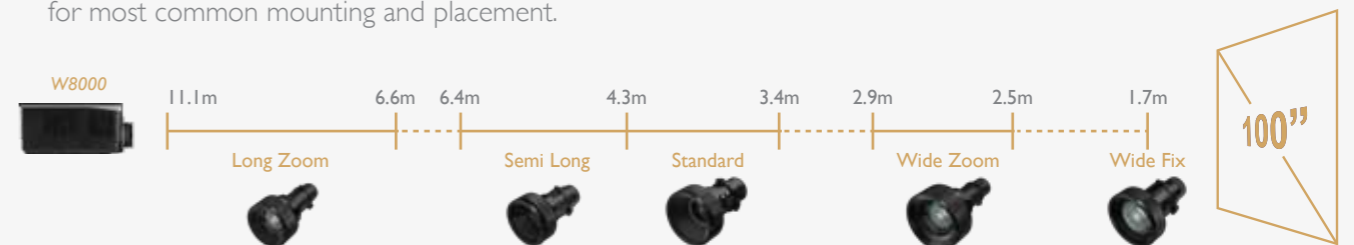
- Motion Enhancer\***  
 Inserting 36 interpolated frames between sequences produces seamless, vivid 60 frame-per-second videos. Minimising jittery playback and blurry shadows.
- Pixel Enhancer / Pixel Enhancer 4K\*\***  
 Motion-adaptive edge enhancement feature that detects changes in color between an object and its background to produce sharp edges and precise surface textures.
- Color Enhancer**  
 Modulates complex color algorithms to flawlessly render saturated colors, fine gradients, intermediate hues and subtle pigments.
- Flesh Tone**  
 Prevents discoloration of skin tones from the light of the projection beam, portraying every skin tone in its most beautiful shade.
- Digital Color Transient Improvement & Digital Luminance Transient Improvement**  
 Sophisticated algorithms significantly improve color and light output when producing images with contrasting colors or bright and dark scales. DCTI heightens color vibrancy for drastic color transitions without noise interference. DLTI reduces noise from fast switching of varied luminances to optimized brightness and contrast. The result is picture quality with the utmost picture depth and color performance.



\*Available on W8000 only

## Perfect Functional Design that fits any décor & installations

- Ultra-Wide 2.35:1 Anamorphic Format**  
 X12000, W11000 & W8000 are capable of filling an ultra-wide cinematic 2.35:1 screen by utilizing an optional anamorphic lens, for authentic digital cinema immersion in the original film format without black bars.
- Vertical & Horizontal Lens Shift**  
 Each room is unique, hence X12000, W11000 & W8000 lenses are designed to allow vertical or horizontal shift within the projector for a dynamic range of projection location without sacrificing image quality.
- Flexible Zoom Expands Installation Opportunities**  
 W8000 uniquely offers five different optical lenses as option to achieve a wide range of throw distances to perfectly fit rooms of any size. While W11000 offers a 1.5X big zoom that greatly increases installation flexibility for most common mounting and placement.



- Sleek Front-Facing Ventilation Design\*\***  
 X12000 & W11000's front-facing ventilation design is suitable for subtle ceiling-mount, hidden, cabinet, or wall inset installations.

\*\*Available on X12000 & W11000 only