	X12000	W11000	W8000
FEATURES	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
PROJECTION SYSTEM	DLP 4K UHD	DLP 4K UHD	DLP
NATIVE RESOLUTION	3840 x 2160 with XPR technology	3840 x 2160 with XPR technology	1080p (1920 x 1080)
BRIGHTNESS (ANSI LUMENS)	2200 lm	2200 lm	2000 lm
CONTRAST RATIO	50,000 :1 with Dynamic Iris	50,000 :1 with Dynamic Iris	50,000 :1 with Dynamic Iris
DISPLAY COLOR	1.07 Billion Colors	1.07 Billion Colors	1.07 Billion Colors
LENS	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
ASPECT RATIO	16:9	16:9	16:9
THROW RATIO	1.37:1~2.06:1 (100" @ 3m)	1.37:1~2.06:1 (100" @ 3m)	Standard Lens* - 1.54:1~1.93:1
CLEAR IMAGE SIZE / MAXIMUM IMAGE SIZE	95"~180" / 300"	95"~180" / 300"	Standard Lens* - 35"~205" / 300"
ZOOM RATIO	1.5:1	1.5:1	Standard Lens* - 1.25:1
LAMP TYPE	PHILIPS HLD	240W	280W
LAMP MODE (NORMAL / ECO / SmartEco)	20,000 hours**	3000 / 4000 / 6000 hours**	2500 / 3500 / 6000 hours**
LENS SHIFT	Vertical: ± 65% / Horizontal: ± 27%	Vertical: ± 65% / Horizontal: ± 27%	Standard Lens* - Vertical -20%~60%, Horizontal ±5%
COLOR SPACE	DCI-P3	Rec. 709	Rec. 709
RESOLUTION SUPPORT	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
DIMENSIONS (W x H x D)	470.7 x 224.9 x 564.7 mm	470.7 x 224.9 x 564.7 mm	431 x 167 x 321 mm
WEIGHT	18.5 kg	14.8 kg	8.8 kg
AUDIBLE NOISE (NORMAL ECONOMIC MODE)	31 / 23 dBA (under Silence Mode)	26 / 23 dBA (under Silence Mode)	31/28 dBA
POWER CONSUMPTION	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
COLOR WHEEL SEGMENT	N/A	6-Segment (RGBRGB)	6-Segment (RGBRGB)
COLOR WHEEL SPEED	N/A	1x (120Hz)	6x (50Hz), 4x (60Hz)
PICTURE MODES	**ISF Disabled:** Bright / Vivid / Cinema / DCI-P3 / Game / User 1 / User 2 **ISF Enabled:** Bright / Vivid / Cinema / DCI-P3 / Game / User 1 / User 2 / ISF Night / ISF Day	**ISF Disabled:** Bright / Vivid / Cinema / THX / Silence / User 1 / User 2 **ISF Enabled:** Bright / Vivid / Cinema / THX / Silence / User 1 / User 2 / ISF Night / ISF Day	**ISF Disabled:** Bright / Vivid /THX / Game / User 1 / User 2 / (3D) **ISF Enabled:** Bright / Vivid / THX / Game / User 1 / User 2 / ISF Night / ISF Day
ACCESSORIES (OPTIONAL)	Ceiling Mount, Anamorphic lens	Spare Lamp Kit, Ceiling Mount, Anamorphic lens	Spare Lamp Kit, Ceiling Mount, Optional Lens, Wireless FHD Kit(WDP01 & WDP02)
POWER SUPPLY	AC100 to 240 V, 50 to 60 Hz	AC100 to 240 V, 50 to 60 Hz	AC100 to 240 V, 50 to 60 Hz
INTERFACE			

*__W8000__ Optional Lens

	WIDE FIXED	WIDE ZOOM	STANDARD	SEMI LONG	LONG ZOOM
MODEL NAME	LS2ST3	LS2ST1	LS2SD	LS2LT1	LS2LT2
LENS	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
ZOOM RATIO	Fixed	1.18x	1.25x	1.5x	1.67x
IMAGE SIZE	30"~175"	35"~370"	35"~205"	31"~468"	27"~301"
THROW RATIO	0.778:1	1.1~1.3:1	1.54~1.93:1	1.93~2.9:1	3.0~5.0:1
LENS SHIFT	Vertical -20%~60%, Horizontal ±5%				

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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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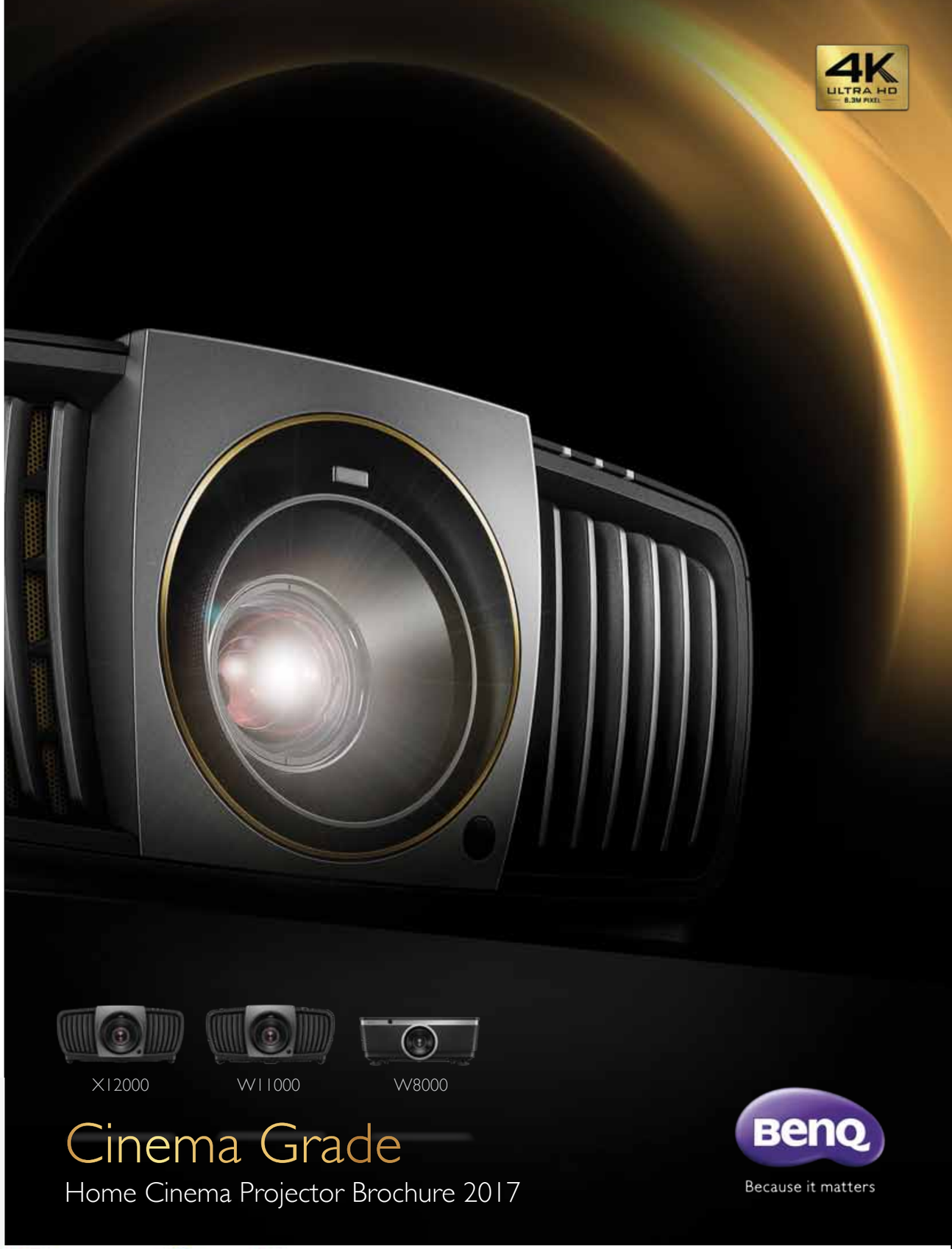

Cinema Grade

Home Cinema Projector Brochure 2017

BenQ
Because it matters

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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
8.3M PIXEL

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

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.

W11000 with 4K DLP UHD DMD Chip

(2716 x 1528) x 2 = 8.3 Million Pixels

- Image Detail Integrity and Color Accuracy Without Artifacts

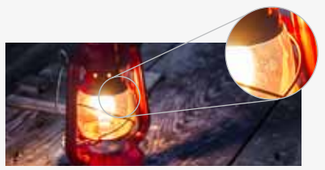
With single DMD DLP technology to avoid inherent alignment issues of multiple panels, X12000 & W11000 present image integrity and accurate color, devoid of artifacting such as blur, shadowing, and interference patterns for immaculate clarity.

DLP 4K UHD Projector

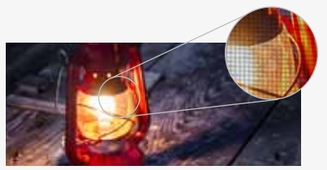
Non-DLP 4K UHD Projector

- High Fill Factor

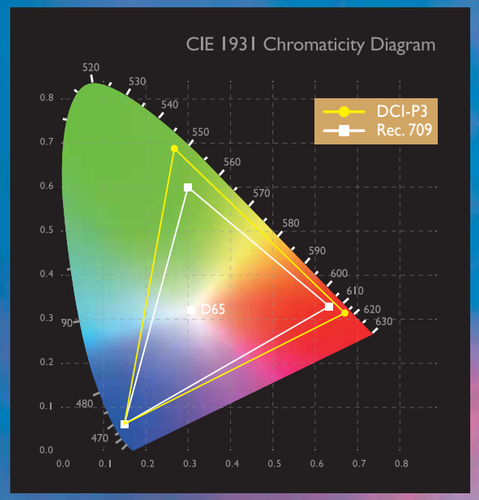
Featuring class-leading high fill factor, pumps more light into each individual pixel for small-size text and fine details that are clearer than the competition. Because high fill factor minimizes the black borders around every pixel.



DLP 4K UHD Projector



Non-DLP 4K UHD Projector



*ColorSpark available on X12000 only

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.

CinematicColor
DCI-P3

Pure Cinematic Performance
with THX® 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.

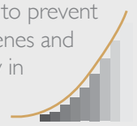
CinematicColor
Rec.709

- **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.



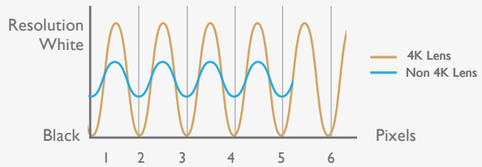
- **Super High Native Contrast**

  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**

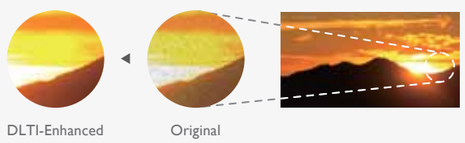
  Working to bring out subtle details in dark shadows and preventing washed out displays, Dynamic Black™ technology paired with Active Iris adjusts light output and contrast to achieve optimum performance according to the scene.

X12000 W11000 W8000

*THX available on W11000 & W8000 only

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

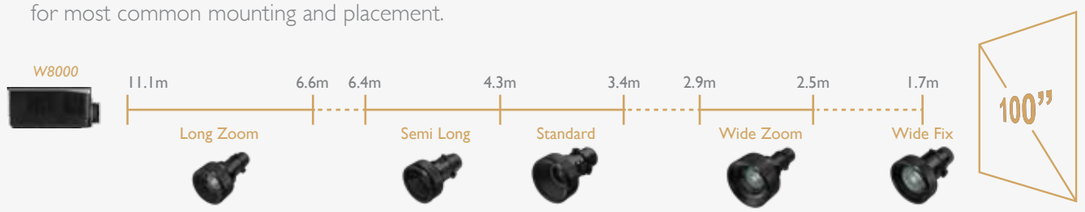
- **Motion Enhancer***
  Inserting 36 interpolated frames between sequences produces seamless, vivid 60 frame-per-second videos. Minimising jittery playback and blurry shadows.
- **Pixel Enhancer / Pixel Enhancer 4K****
  Motion-adaptive edge enhancement feature that detects changes in color between 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