# POWERFUL LASER PHOSPHOR 4K ULTRA HIGH DEFINITION PROJECTOR

UHZ65

## Larger-than-life 4K laser home viewing experience with stunning color and amazing clarity



Native 4K UHD 3840x2160 2160p, bright 3000 lumens, and a laser phosphor light source for for vibrant, vivid cinematic color and no lamps to change

Optoma



HDR-compatible - HDR10 produces the brightest whites, deepest blacks, and striking, life-like colors courtesy of wide color gamut support featuring REC.2020 and DCI-P3 coverage

Dynamic Black delivers 2,000,000:1 contrast ratio for exceptional black levels

HDMI 2.0 and HDCP 2.2 deliver a full 18Gbps for the best 4K UHD video bandwidth, image quality and device compatibility

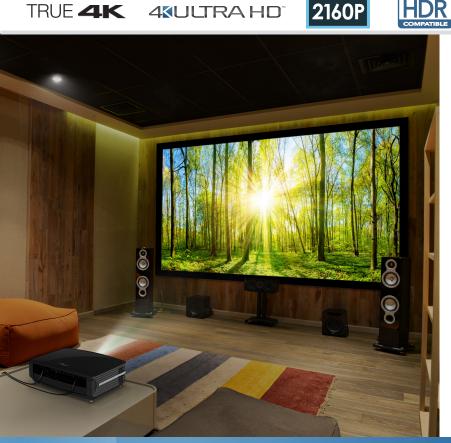
Vertical Lens Shift and 1.6x zoom for an intuitive and flexible installation

HOMI

PureMotion technology eliminates noise, motion blur, and judder in fast motion video, producing clear and consistently smooth images

Stereo speakers and optical output to AV receiver delivers crisp and sharp audio

HDCP22



CONNECTIVITY (May require optional accessories)

The UHZ65 is a state-of-the-art 4K Ultra High Definition (UHD) projector for home cinema viewing capable of delivering incredibly sharp images with a high level of detail and breathtaking color. With 4 times the pixels of 1080p, an ultra high resolution of 3840x2160, 3000 lumens, and 2,000,000:1 contrast ratio, the UHZ65 has been engineered to deliver the ultimate 4K UHD home viewing experience. Its powerful laser phosphor light engine, High Dynamic Range in the form of HDR10, vertical lens shift and massive 1.6x Zoom, take image quality and use of the UHZ65 to world class, cinema-quality. The UHZ65 is powered by a revolutionary Texas Instruments 4K DLP UHD chipset with a high performance DMD utilizing XPR video processing technology with fast switching to display 8.3 million "distinct" pixels as mandated by the Consumer Technology Association's 4K UHD 2160p specification.

The UHZ65 can project 4K UHD images of 140+ inches, allowing viewers to sit as far a way as 11 feet from the screen and still enjoy the full 4K UHD pixel experience. The average 55-75 inch 4K UHD TV simply cannot match this, as viewers typically sit further away from their TV than the optimum viewing area of 4-6 feet. High Dynamic Range (HDR) is the true star of the 4K UHD show. HDR leverages wide color gamut with REC.2020 and DCI-P3 coverage to deliver luminous whites, deep black levels, and striking, like-life, real world color that was previously only possible at the movies.

The UHZ65's PureMotion technology dramatically enhances games, movies, and sports by eliminating noise, motion blur, and erratic movement in fast motion video, producing images that are clear, consistent, and smooth. In terms of at-home installation, a generous 15% vertical lens shift and a massive 1.6x optical zoom provide a great deal of flexibility, while dual stereo speakers generate audio that is loud and crisp. The UHZ65's light source provides a remarkable 30,000 hours, eliminating the need to replace the light source throughout the life of the projector.

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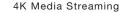




4K Set Top Box

4K UHD Blu-ray Player

4K Game Console



treaming Co

Computers/Mac

#### POWERFUL LASER PHOSPHOR 4K ULTRA HIGH DEFINITION PROJECTOR - UHZ65

#### **OPTICAL/TECHNICAL SPECIFICATIONS**

Display Technology         Single 0.66 TIP S610 4K UHD DMD DLP® Technology by Texas Instruments <sup>IM</sup> Color Wheel         RGBY 4 Segment color wheel           Native Resolution         4K UHD 3840x2160 @ 60Hz with XPR Technology           Maximum Resolution         4K 0496x2160 @ 60Hz with XPR Technology           4K UHD Upscale Conversion         Upscales non-4K UHD resolutions (WXGA, 720p, 1080p, WUXGA, 1440p) and frame rates to 2160p 60Hz (4K UHD)           Brightness         3000 Lumens           Contrast Ratio         2,000,0001 with Dynamic Black           REC.709 Color Gamut         100% REC.709 color gamut provides rich accurate color based on the HDTV Broadcast Specification. REC.709 will be used with all non-HDR content.           HDR (High Dynamic Range)         HDR Compatible (decode HDR10 metadata) / 4 Picture Modes: Normal, Brigh, LDE 2020 and DCI-P3 prove physical colors and torware je is the equivalent to those used in the CIE 1931 colors space (CIE 1931 color space defines links between "pure physical colors" and "perceived" colors of numan wisin).           HDR Compatibility         HDR Source, 4K UHD BU-Fay Player (such as the Samsung UED-K8500 UItra). 4K UHD BU-Fay Player (such as the fame) or Pice Part (PA Colors" and "perceived" colors of numan wisin).           HDR Compatibility         HDR Source, 4K UHD MBU, Alge Player (such as the fame) or FAB FO (dam color, equit and the colors" and "perceived" colors of numan wisin).           UtraDetail         Enhances image quality bi inproving image depth and clarity. 3 acolor specification.	OPTICAL/TECHNICAL SPE	CIFICATIONS
Native Resolution         4K UHD 3840x2160 @ 60Hz with XPR Technology           Maximum Resolution         4K 4096x2160 @ 60Hz with XPR Technology           4K UHD Upscale Conversion         Upscales non-4K UHD resolutions (WKGA, 720, 1080), WUXGA, 1440p) and frame rates to 2160p 60Hz (4K UHD)           Brightness         3000 Lumens           Contrast Ratio         2,000,001.1 with Dynamic Black           REC.709 Color Gamut         100% REC.709 color gamut provides rich accurate color based on the HDT Broadcast Specification. REC.709 will be used with all non-HDR content.           HDR (High Dynamic Range)         HDR Compatible (decode HDR10 metadata) / 4 Picture Modes: Normal, Bright, Detail, Film           HDR Wide Color Gamuts (REC.2020 and DCH-9)         The RGB primaries (real color) dilized in wide color gamut with REC.2020 and DCH-9)           HDR Mide Color Gamuts (REC.2020 and DCH-9)         The RGB primaries (real color) dilized in wide color Gamut with REC.2020 and DCH-9)           HDR Mide Color Gamuts (REC.2020 and DCH-9)         The RGB primaries (real color) dilized in wide color Gamut with REC.2020 and DCH-9)           HDR R Compatibility         HDR Source: 4K UHD Bit-Ray Player (such as the Samsung UBE Source: 4K UHD Bit-Ray Player (such as the Samsung UBE Source: 4K UHD Bit-Ray, RAy er (dat Media Streaming and Games ont) "BCR Content: HDR 4K UHD Bit-Ray, 4K Media Streaming A charbot DR Wide Color HDR Sim Underson and as Amazona 4K UHD PIG Nude Netlix: 4K UHD XDR cos and as Amazona 4K UHD HDR Wide Color HDR Sim Ulation mode)           UpreEngline featuring PureMotion (MEMO) <th< th=""><th>Display Technology</th><th></th></th<>	Display Technology	
Maximum Resolution         4K 4096x2160 @ 60Hz with XPR Technology           4K UHD Upscale Conversion         Upscales non-4K UHD resolutions (WXGA, 720p, 1080p, WXGA, 1440p) and frame rates to 2160p 60Hz (4K UHD)           Brightness         3000 Lumens           Contrast Ratio         2,000,0001 with Dynamic Black           REC.709 Color Gamut         100% REC.709 color gamut provides rich accurate color based on the HDTV Broadcast Specification. REC.709 will be used with all non-HDR compatible (decode HDR10 metadata) / 4 Picture Modes: Normal, Brigh, Detail, Film           HDR Wide Color Gamuts (REC.2020 and DCI-P3 (DEC) and DCI-P3 (DEC) and DCI-P3 of gamut doverage is the equivalent to those used in the CIE 1931 colors space (CIE 1931 color space defines links between "pure physical colors" and "perceived" colors of numan vision).           HDR Compatibility         HDR Source: 4X UHD Bu-Ray Player (such as the Samsung UED-K8600 UHra), 4X UHD Streaming and Games only "HDR Compatibility           HDR Sim Mode (HDR mutation, apply HDR to non-HDR content)         HDR Sim Mode (HDR Envirtuing proving image depth and clarity, 3 areazon 4X UHD HDR Video, Netlix 4X UHD HDR Video, or Hulu 4X UHD HDR Video           SDR to HDR HDR SIM Mode (HDR Envirtuing proving image depth and clarity, 3 levels to choose from.         HDR Sim Vider in fast model Streaming and Games only HDR Sim Video           UtraDetail         Enhances image quality by improving image depth and clarity, 3 levels to choose from.         HDR SiM Vide clarity, 3 levels to choose from.           UtraDetail         Enhancesimage quality by improving image depth and clarity,	Color Wheel	RGBY 4 Segment color wheel
4K UHD Upscale Conversion         Upscales non-4K UHD resolutions (WXGA, 720p, 1080p, WUXGA, 1440p) and frame rates to 2160p 60Hz (4K UHD)           Brightness         3000 Lumens           Contrast Ratio         2,000,0001 with Dynamic Black           REC.709 Color Gamut         100% REC.709 color gamut provides rich accurate color based on the HDTV Broadcast Specification. REC.709 will be used with all non-HDR content.           HDR (High Dynamic Range)         HDR Compatible (decode HDR10 metadata) / 4 Picture Modes: Normal, Bright, Detal, Film           HDR Wide Color Gamuts (REC.2020 and DCI-R)         The RGB primaries (real color) utilized in wide color gamut with REC.2020 (BR.2020) and DCI-R) cong anut coverage is the early evident to these used in the CIE 1931 color space (CIE 1931 color space) (CIE 1931 co	Native Resolution	4K UHD 3840x2160 @ 60Hz with XPR Technology
Brightness         3000 Lumens           Contrast Ratio         2,000,000:1 with Dynamic Black           REC.709 Color Gamut         100% REC.709 color gamut provides rich accurate color based on the HDTV Broadcast Specification. REC.709 will be used with all non-HDR compatible (decode HDR10 metadata) / 4 Picture Modes: Normal, Bright, Detail, Film           HDR Wide Color Gamuts (REC.2020 and DCI-P3)         The RGB primates (real color) villized in wide color gamut with equivalent to those used in the CIE 1931 color space (CIE 1931 color space forms) for space (CIE 1931 color space forms), Nox One S (4K UHD BL-Pay Phayer (such as the Samsung UBD-K8500 Ultra), 4K UHD Streaming Media Device (such as the Roku 4K Ultra), Nox One S (4K UHD BL-Pay K4 Media Streaming) and Games on VA UHD Streaming and Games on VI HDR Compatibility           UBD Simes: 4K UHD BL-Next VIDE Sime Video (color) and Cames on VIDE Sime Color Sime (MA UHD BL-Pay Payer (such as the Samsung UBD Streaming and Games on VIDE Roku 4K Ultra), Nox One S (4K UHD BL-Payer VIDE). CHDR Video, or Huiu HDR Compatibility           UPE Sime Gene Eaturing PureMotion (MEMC)         PureEngine Sime Video (color) HDR Simulation mode) (VIDE Dentement)           UPT as the sime sime gaugity by improving image depth and clarity. 3 levels to choose from.           Color Depth         3840x:160 @301-YUV 4:44 (Bbit, 10bit, 12bit), TUD, YUV 4:2: (Bbit, 10bit, 12bit), TUD, YUV 4:2: (Bbit, 10bit, 12bit), TUD, YUV 4:2: (Bbit, 10bit, 12bit)           Projection Method         Front, rear, celling mount, table top           Vertical Lens Shift         15% offset (with tolerance +/- 5%)           Uniformity	Maximum Resolution	4K 4096x2160 @ 60Hz with XPR Technology
Contrast Ratio         2,000,000:1 with Dynamic Black           REC.709 Color Gamut         100% REC.709 color gamut provides rich accurate color based on the HDTV Broadcast Specification. REC.709 will be used with all non-HDR content.           HDR (High Dynamic Range)         HDR Compatible (decode HDR10 metadata) / 4 Picture Modes: Normal, Bright, Detail, Film           HDR Wide Color Gamuts (REC.2020 and DCI-97. The RGB primaries (neat color) villized in wide color gamut with REC.2020 (BR.2020) and DCI-97. Socior space (DEI 1931 colors game) to versige is the equivalent to those used in the CEI 1931 color space (DEI 1931 color space (DEI 1931 colors" and "perceived" colors of human vision).           HDR Compatibility         HDB Source: 4K UHD Blu-Ray Player (such as the Samuing A Games), or PS 4Pro (4K Media Streaming and Games only) HDR Content: HDR 4K UHD HDR Video. Netfix: 4K UHD HDR Video, or Hulu 4K UHD HDR Video           SDR to HDR HDR SIM Mode (HDR Emutation, apply HDR to non-HDR content)         HDR SiM Mode (HDR Emutation, apply HDR to non-HDR content)           PureEngine featuring PureEngine's PureMotion technology eliminates noise, motion blur, and judder in fast motion video, producing clear and consistently smooth images           Color Depth         3840x2160 (Gabt, TDR H, YUM 4:2:2 (Bbit, 10bit, 12bit), YUM 4:2:2 (Bbit, 10bit,	4K UHD Upscale Conversion	Upscales non-4K UHD resolutions (WXGA, 720p, 1080p, WUXGA, 1440p) and frame rates to 2160p 60Hz (4K UHD)
REC.709 Color Gamut         100% REC.709 color gamut provides rich accurate color based on the HDTV Broadcast Specification. REC.709 will be used with all non-HDR content.           HDR (High Dynamic Range)         HDR Compatible (decode HDR10 metadata) / 4 Picture Modes: Normal, Bright, Detail, Film           HDR Wide Color Gamuts (REC.2020 and DCI-P3)         The RGB primaries (real color) utilized in wide color gamut with REC.2020 (REC.2020) and DCI-P3 color gamut coverage is the equivalent to those used in the CIE 1931 color space (DEI 1931 color space defines links between "pure physical colors" and "perceived" colors of human vision).           HDR Compatibility         HDB Source's (KUHD BLI-ray Player (such as the Samsung UBD-K8500 Ultra), 4K UHD DS treaming Media Streaming and Games only HDR PS4 Pro Game, or 784 Pro (4K Media Streaming and Games only HDR PS4 Pro Game, 07 PS4 Pro (4K Media Streaming Streaming, & Games), or PS4 Pro (4K Media Streaming Streaming, Bruzen 4K UHD BLI varg UBC, HDB HDF Video, or Huiu 4K UHD HDR Video. Nettix 4K UHD BLI Provice such as Amazon 4K UHD HDR Video. Nettix 4K UHD BLI Provice such as Amazon 4K UHD HDR Video. Nettix 4K UHD BUR video, or Huiu 4K UHD HDR Video (Streaming)           SDR to HDR HDR SIM Mode (HDR Emulation, apply HDR onon-HDR content)         PureEngine's PureMotion technology eliminates noise, motion blur, and judder in fast motion video, producing clear and consistently smooth images           UItraDetail         Enhances image quality by improving Image depth and clarity. 3 levels to chose stront, YUU 4:2:2 (Bbt, 10bt, 12bt), YUU 4:2:2 (Bbt, 10bt), 12bt), YUU 4:2:4 (Bbt, 10bt), 12bt), YUU 4:2:2 (Bbt, 10bt), 12bt), YUU 4:2:4 (Bbt), YUU 4:2:0 (Bbt, 10bt), 12bt), PUV 4:2:0 (Bbt, 10bt), 12bt), YUU 4:2:2 (Bbt, 10bt), 12bt), SUU 4:4 (Bbt), 10bt), 12bt), SU	Brightness	3000 Lumens
on the HDTV Broadcast Specification. REC.709 will be used with all non-HDR content.           HDR (High Dynamic Range)         HDR Compatible (decode HDR10 metadata) / 4 Picture Modes: Normal, Bright, Detail, Film           HDR Wide Color Gamuts (REC.2020 and DCI-P3)         The RGB primaries (real color) utilized in wide color gamut with REC.2020 (BR.2020) and DCI-P3 color gamut coverage is the event of the set of the s	Contrast Ratio	2,000,000:1 with Dynamic Black
Normal, Bright, Detail, Film           HDR Wide Color Gamuts (REC.2020 and DCI-P3)           The RGB primaties (real color) utilized in wide color gamut with ref.2200 (BR-2020) and DCI-P3 color gamut coverage (CEI 1931 color space defines links between "pure physical colors" and "perceived" colors of human wison).           HDR Compatibility         HDR Source; 4K UHD Blu-Ray Player (such as the Samsung UBD-K8500 Utira), 4K UHD Blu-Ray Player (such as the Samsung UBD-K8500 Utira), 4K UHD Streaming Media Device (such as the Roku 4K UHZ). Xbox One S (4K UHD Blu-Ray, 4K Media Streaming, & Games), or P54 Pro (4K Media Streaming 3ervice such as Amazon 4K UHD HDR Video, Netflix 4K UHD HDR Video, or Hulu 4K UHD HDR Video           SDR to HDR HDR SIM Mode (HDR Bind IN (Vivid High Color HDR Simulation mode)         HDR SIM (Vivid High Color HDR Simulation mode)           PureEngine featuring         PureEngine's PureMotion technology eliminates noise, motion blur, and judder in fast motion video, producing clear and consistently smooth images           UltraDetail         Enhances image quality by improving image depth and clarity. 3 levels to choose from.           Color Depth         3840x2160 30742 YUV 4:4:4 (Bbit, 10bit, 12bit), YUV 4:2:2 (Bbit, 10bit, 12bit), YUV 4:2:	REC.709 Color Gamut	on the HDTV Broadcast Specification. REC.709 will be used with
Typerceived         Colors of numan vision).           HDR Compatibility         HDR Source: 4K UHD Blu-ray Player (such as the Samsung UBD-K8500 Ultra), 4K UHD Streaming Media Device (such as the Roku 4K UHTa), Xbox One S (4K UHD Blu-ray, 4K Media Streaming, & Games, or PS4 Pro (4K Media Streaming and Games only)           HDR FS4 Pro Game, or 4K HDR Media Streaming Service such as Amazon 4K UHD BLD ROW Video, Netflix 4K UHD HDR Video, or Hulu 4K UHD HDR Video, or Hulu 4K UHD HDR Video           SDR to HDR HDR SIM Mode (HDR SIM (Vivid High Color HDR Simulation mode)         (HDR Emulation, apply HDR to non-HDR content)           PureEngine featuring PureEngine's PureMotion technology eliminates noise, motion blur, and judder in fast motion video, producing clear and consistently smooth images           UltraDetail         Enhances image quality by improving image depth and clarity. 3 levels to choose from.           Color Depth         3840x2160 @30Hz YUV 4:44 (Bbit, 10bit, 12bit); YUV 4:2:0 (Bbit, 10bit, 12bit); YUV 4:2:0 (Bbit, 10bit, 12bit); YUV 4:2:0 (Bbit, 10bit, 12bit); YUV 4:2:160 @01Hz YUV 4:44 (Bbit, 10bit, 12bit); YUV 4:2:160 @01Hz YUV 4:44 (Bbit, 10bit, 12bit); YUV 4:2:0 (Bbit, 10bit	HDR (High Dynamic Range)	Normal, Bright, Detail, Film
International and the state of the	HDR Wide Color Gamuts (REC.2020 and DCI-P3)	"perceived" colors of human vision).
(HDR Emulation, apply HDR to non-HDR content)       PureEngine's PureMotion technology eliminates noise, motion blur, and judder in fast motion video, producing clear and consistently smooth images         UltraDetail       Enhances image quality by improving image depth and clarity. 3 levels to choose from.         Color Depth       3840x2160 @30Hz YUV 4:4:4 (8bit, 10bit, 12bit), YUV 4:2:2 (8bit, 10bit, 12bit), YUV 4:2:0 (8bit, 10bit, 12bit)         Lamp Life and Type*       Up to 30,000 hours (Eco) / Laser Phosphor         Projection Method       Front, rear, ceiling mount, table top         Vertical Lens Shift       15% offset (with tolerance: +/- 5%)         Uniformity       75%         Offset       100%±15% (tolerance: ±5% - see Vertical Lens Shift above)         Aspect Ratio       16:9 (native), 4:3, Auto, LBX (2160p and 1080p)         Throw Ratio       1.39 - 2.22 (with tolerance +/- 5%)         Projection Distance       16" - 581" (no zoom)         Image Size       26.45" - 302.2" (26.45" to 140" optimal image size)         Projection Lens       F=2.5- 3.26, f=20.91 ~ 32.62 mm manual focus         Optical Zoom       1.6x         Digital Zoom       0.8 - 2.0         Audio       2x4W Stereo Speakers         Noise Level       33/29dB (Bright/ECO)         Remote Control       Full Function Home Remote Control         Operating Temperature       5°C-4	HDR Compatibility	HDR Content, HDR 4K UHD Blu-ray Disc, HDR Xbox One S Game, HDR PS4 Pro Game, or 4K HDR Media Streaming Service such as Amazon 4K UHD HDR Video, Netflix 4K UHD HDR Video, or Hulu
PureMotion (MEMC) <sup>-</sup> motion blur, and judder in fast motion video, producing clear and consistently smooth images           UltraDetail         Enhances image quality by improving image depth and clarity. 3 levels to choose from.           Color Depth         3840x2160 @30Hz YUV 4:4:4 (8bit, 10bit, 12bit), YUV 4:2:2 (8bit, 10bit, 12bit), 3840x2160 @60Hz YUV 4:4:4 (8bit), 10bit, 12bit)           Lamp Life and Type*         Up to 30,000 hours (Eco) / Laser Phosphor           Projection Method         Front, rear, ceiling mount, table top           Vertical Lens Shift         15% offset (with tolerance +/- 5%)           Uniformity         75%           Offset         100%±15% (tolerance: ±5% - see Vertical Lens Shift above)           Aspect Ratio         16:9 (native), 4:3, Auto, LBX (2160p and 1080p)           Throw Ratio         1.39 - 2.22 (with tolerance +/- 5%)           Projection Distance         16" - 581" (no zoom)           Image Size         26.45" - 302.2" (26.45" to 140" optimal image size)           Projection Lens         F=2.5- 3.26, f=20.91 ~ 32.62 mm manual focus           Optical Zoom         1.6x           Digital Zoom         0.8 - 2.0           Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5		
levels to choose from.         Y         Y         Y           Color Depth         3840x2160 @30Hz YUV 4:4:4 (8bit, 10bit, 12bit), YUV 4:2:2 (8bit, 10bit, 12bit) 3840x2160 @60Hz YUV 4:4:4 (8bit), YUV 4:2:0 (8bit, 10bit, 12bit) 3840x2160 @60Hz YUV 4:4:4 (8bit), YUV 4:2:0 (8bit, 10bit, 12bit) 3840x2160 @60Hz YUV 4:4:4 (8bit), YUV 4:2:0 (8bit, 10bit, 12bit) 3840x2160 @60Hz YUV 4:4:4 (8bit), YUV 4:2:0 (8bit, 10bit, 12bit)           Lamp Life and Type*         Up to 30,000 hours (Eco) / Laser Phosphor           Projection Method         Front, rear, ceiling mount, table top           Vertical Lens Shift         15% offset (with tolerance +/- 5%)           Uniformity         75%           Offset         100%±15% (tolerance: ±5% - see Vertical Lens Shift above)           Aspect Ratio         16:9 (native), 4:3, Auto, LBX (2160p and 1080p)           Throw Ratio         1.39 - 2.22 (with tolerance +/- 5%)           Projection Distance         16" - 581" (no zoom)           Image Size         26.45" - 302.2" (26.45" to 140" optimal image size)           Projection Lens         F=2.5- 3.26, f=20.91 ~ 32.62 mm manual focus           Optical Zoom         1.6x           Digital Zoom         0.8 - 2.0           Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature		motion blur, and judder in fast motion video, producing clear and
Lamp Life and Type*       Up to 30,000 hours (Eco) / Laser Phosphor         Projection Method       Front, rear, ceiling mount, table top         Vertical Lens Shift       15% offset (with tolerance +/- 5%)         Uniformity       75%         Offset       100%±15% (tolerance: ±5% - see Vertical Lens Shift above)         Aspect Ratio       16:9 (native), 4:3, Auto, LBX (2160p and 1080p)         Throw Ratio       1.39 - 2.22 (with tolerance +/- 5%)         Projection Distance       16" - 581" (no zoom)         Image Size       26.45" - 302.2" (26.45" to 140" optimal image size)         Projection Lens       F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus         Optical Zoom       1.6x         Digital Zoom       0.8 - 2.0         Audio       2x4W Stereo Speakers         Noise Level       33/29dB (Bright/ECO)         Remote Control       Full Function Home Remote Control         Operating Temperature       5°C - 40°C @ 02,500 feet / 5°C - 35°C @ 2,500-5,000 feet / 5°C - 30°C @ 5,000-10,000 feet / 90% max humidity         Heat Dissipation       1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1431 BTU/hr (Bright mode), 1485 BTU/hr (Bright mode), 1481 BTU/hr (Cinema mode)         Power Supply       AC input 100–240V, 50–60Hz, auto-switching         Power Consumption       400W Typical (Bright mode), 460W Max (Bright mode), 240W	UltraDetail	levels to choose from.
Projection Method       Front, rear, ceiling mount, table top         Vertical Lens Shift       15% offset (with tolerance +/- 5%)         Uniformity       75%         Offset       100%±15% (tolerance: ±5% - see Vertical Lens Shift above)         Aspect Ratio       16:9 (native), 4:3, Auto, LBX (2160p and 1080p)         Throw Ratio       1.39 - 2.22 (with tolerance +/- 5%)         Projection Distance       16" - 581" (no zoom)         Image Size       26.45" - 302.2" (26.45" to 140" optimal image size)         Projection Lens       F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus         Optical Zoom       1.6x         Digital Zoom       0.8 - 2.0         Audio       2x4W Stereo Speakers         Noise Level       33/29dB (Bright/ECO)         Remote Control       Full Function Home Remote Control         Operating Temperature       5°C - 40°C @ 02,500 feet / 5°C - 35°C @ 2,500-5,000 feet / 5°C - 36°C @ 2,500 - 5,000 feet / 5°C - 36°C @ 2,500 - 5,000 feet / 5°C - 36°C @ 2,500 - 5,000 feet / 5°C - 36°C @ 2,500 - 5,000 feet / 5°C - 36°C @ 0.2,500 feet / 5°C - 36°C @ 0.2,500 feet / 5°C - 36°C @ 2,500 - 5,000 feet / 5°C - 36°C @ 0.2,500 feet	Color Depth	3840x2160 @30Hz YUV 4:4:4 (Bbit, 10bit, 12bit), YUV 4:2:2 (8bit, 10bit, 12bit), YUV 4:2:0 (8bit, 10bit, 12bit) 3840x2160 @60Hz YUV 4:4:4 (8bit), YUV 4:2:2 (8bit), YUV 4:2:0 (8bit, 10bit, 12bit)
Vertical Lens Shift         15% offset (with tolerance +/- 5%)           Uniformity         75%           Offset         100%±15% (tolerance: ±5% - see Vertical Lens Shift above)           Aspect Ratio         16:9 (native), 4:3, Auto, LBX (2160p and 1080p)           Throw Ratio         1.39 - 2.22 (with tolerance +/- 5%)           Projection Distance         16" - 581" (no zoom)           Image Size         26.45" - 302.2" (26.45" to 140" optimal image size)           Projection Lens         F=2.5- 3.26, f=20.91 ~ 32.62 mm manual focus           Optical Zoom         1.6x           Digital Zoom         0.8 - 2.0           Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5°C - 40°C @ 0-2,500 feet / 5°C - 35°C @ 2,500-5,000 feet / 5°C - 35°C @ 2,500-5,000 feet / 5°C - 30°C @ 5.000 - 10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1431 BTU/hr (Cinema mode)           Power Supply         AC input 100–240V, 50–60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 460W Max (Bright mode), 240W Typical (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode	Lamp Life and Type*	Up to 30,000 hours (Eco) / Laser Phosphor
Uniformity         75%           Offset         100%±15% (tolerance: ±5% - see Vertical Lens Shift above)           Aspect Ratio         16:9 (native), 4:3, Auto, LBX (2160p and 1080p)           Throw Ratio         1.39 - 2.22 (with tolerance +/- 5%)           Projection Distance         16" - 581" (no zoom)           Image Size         26.45" - 302.2" (26.45" to 140" optimal image size)           Projection Lens         F=2.5- 3.26, f=20.91 ~ 32.62 mm manual focus           Optical Zoom         1.6x           Digital Zoom         0.8 - 2.0           Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5°C ~ 40°C @ 0.2,500 feet / 5°C ~ 35°C @ 2,500-5,000 feet / 5°C ~ 35°C @ 2,500.5,000 feet / 5°C ~ 35°C @ 2,500.5,000 feet / 5°C ~ 35°C @ 2,500 - 10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1481 BTU/hr (Cinema mode)           Power Supply         AC input 100–240V, 50–60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 260W Max (Bright mode), 240W Typical (Eco+ mode), 275W Max (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode	Projection Method	Front, rear, ceiling mount, table top
Offset         100%±15% (tolerance: ±5% - see Vertical Lens Shift above)           Aspect Ratio         16:9 (native), 4:3, Auto, LBX (2160p and 1080p)           Throw Ratio         1.39 - 2.22 (with tolerance +/- 5%)           Projection Distance         16" - 581" (no zoom)           Image Size         26.45" - 302.2" (26.45" to 140" optimal image size)           Projection Lens         F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus           Optical Zoom         1.6x           Digital Zoom         0.8 - 2.0           Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500-5,000 feet / 5°C~35°C @ 2,500-5,000 feet / 5°C~30°C @ 1,000 -10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1481 BTU/hr (Cinema mode)           Power Supply         AC input 100-240V, 50-60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 460W Max (Bright mode), 240W Typical (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode	Vertical Lens Shift	15% offset (with tolerance +/- 5%)
Aspect Ratio         16:9 (native), 4:3, Auto, LBX (2160p and 1080p)           Throw Ratio         1.39 - 2.22 (with tolerance +/- 5%)           Projection Distance         16" - 581" (no zoom)           Image Size         26.45" - 302.2" (26.45" to 140" optimal image size)           Projection Lens         F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus           Optical Zoom         1.6x           Digital Zoom         0.8 - 2.0           Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500.5,000 feet / 5°C~30°C @ 5.000-10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (Bright mode) / 1481 BTU/hr (Cinema mode)           Power Supply         AC input 100-240V, S0-60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 460W Max (Bright mode), 240W Typical (Eco+ mode)           Typical (Eco+ mode)         3000m max altitude - must manually switch to high altitude mode	Uniformity	75%
Throw Ratio       1.39 - 2.22 (with tolerance +/- 5%)         Projection Distance       16" - 581" (no zoom)         Image Size       26.45" - 302.2" (26.45" to 140" optimal image size)         Projection Lens       F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus         Optical Zoom       1.6x         Digital Zoom       0.8 - 2.0         Audio       2x4W Stereo Speakers         Noise Level       33/29dB (Bright/ECO)         Remote Control       Full Function Home Remote Control         Operating Temperature       5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500.5,000 feet / 5°C~30°C @ 3,000-10,000 feet / 90% max humidity         Heat Dissipation       1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1431 BTU/hr (Cinema mode)         Power Supply       AC input 100-240V, S0-60Hz, auto-switching         Power Consumption       400W Typical (Bright mode), 460W Max (Bright mode), 240W Typical (Ecot mode), 240W Max (Ecot mode)         Typical (Ecot mode), 2000 max altitude - must manually switch to high altitude mode	Offset	100%±15% (tolerance: ±5% - see Vertical Lens Shift above)
Projection Distance         16" - 581" (no zoom)           Image Size         26.45" - 302.2" (26.45" to 140" optimal image size)           Projection Lens         F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus           Optical Zoom         1.6x           Digital Zoom         0.8 - 2.0           Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500.5,000 feet / 5°C~30°C @ 5.000-10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1481 BTU/hr (Cinema mode)           Power Supply         AC input 100-240V, 50-60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 460W Max (Beright mode), 240W Typical (Eco+ mode), 240W Max (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode	Aspect Ratio	16:9 (native), 4:3, Auto, LBX (2160p and 1080p)
Image Size         26.45" - 302.2" (26.45" to 140" optimal image size)           Projection Lens         F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus           Optical Zoom         1.6x           Digital Zoom         0.8 - 2.0           Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5"C~40°C @ 0-2,500 feet / 5"C~35°C @ 2,500~5,000 feet / 5°C~35°C @ 2,500.700 feet / 5°C~30°C @ 5,000~10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1481 BTU/hr (Cinema mode)           Power Supply         AC input 100–240V, 50–60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 460W Max (Bright mode), 240W Typical (Eco+ mode), 240W Max (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode	Throw Ratio	1.39 - 2.22 (with tolerance +/- 5%)
Image Size         26.45" - 302.2" (26.45" to 140" optimal image size)           Projection Lens         F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus           Optical Zoom         1.6x           Digital Zoom         0.8 - 2.0           Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500~5,000 feet / 5°C~35°C @ 2,500.75,000 feet / 5°C~30°C @ 5,000-10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1431 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1431 BTU/hr (Cinema mode)           Power Supply         AC input 100-240V, 50-60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 460W Max (Bright mode), 240W Typical (Eco+ mode), 240W Max (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode	Projection Distance	16" - 581" (no zoom)
Projection Lens         F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus           Optical Zoom         1.6x           Digital Zoom         0.8 - 2.0           Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500-5,000 feet / 5°C~30°C @ 5,000~10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (Bright mode) / 1481 BTU/hr (Ginema mode)           Power Supply         AC input 100-240V, 50-60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 460W Max (Bright mode), 240W Typical (Eco+ mode), 240W Max (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode	Image Size	26.45" - 302.2" (26.45" to 140" optimal image size)
Optical Zoom         1.6x           Digital Zoom         0.8 - 2.0           Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500-5,000 feet / 5°C~30°C @ 5,000~10,000 feet / 95% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (Bright mode) / 1481 BTU/hr (Cinema mode)           Power Supply         AC input 100-240V, 50-60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 460W Max (Bright mode), 240W Typical (Eco+ mode), 240W Max (Eoright mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode	=	
Digital Zoom       0.8 - 2.0         Audio       2x4W Stereo Speakers         Noise Level       33/29dB (Bright/ECO)         Remote Control       Full Function Home Remote Control         Operating Temperature       5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500-5,000 feet / 5°C~30°C @ 5,000~10,000 feet / 90% max humidity         Heat Dissipation       1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1431 BTU/hr (Cinema mode)         Power Supply       AC input 100–240V, 50–60Hz, auto-switching         Power Consumption       400W Typical (Bright mode), 275W Max (Bright mode), 240W Typical (Eco+ mode), 275W Max (Eco+ mode)         High Altitude       3000m max altitude - must manually switch to high altitude mode		
Audio         2x4W Stereo Speakers           Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500-5,000 feet / 5°C~30°C @ 5,000~10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1433 BTU/hr (Bright mode)           Power Supply         AC input 100–240V, 50–60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 240W Typical (Eco+ mode), 275W Max (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode	·	
Noise Level         33/29dB (Bright/ECO)           Remote Control         Full Function Home Remote Control           Operating Temperature         5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500-5,000 feet / 5°C~30°C @ 5,000~10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1431 BTU/hr (Cinema mode)           Power Supply         AC input 100–240V, 50–60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 240W Typical (Eco+ mode), 275W Max (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode		
Remote Control         Full Function Home Remote Control           Operating Temperature         5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500~5,000 feet / 5°C~30°C @ 5,000~10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1455 BTU/hr (HDR mode) / 1433 BTU/hr (Bright mode), 1455 BTU/hr (HDR mode) / 1451 BTU/hr (Cinema mode)           Power Supply         AC input 100–240V, 50–60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 240W Typical (Eco+ mode), 275W Max (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode		· · ·
Operating Temperature         5°C~40°C @ 0-2,500 feet / 5°C~35°C @ 2,500~5,000 feet / 5°C~30°C @ 5,000~10,000 feet / 90% max humidity           Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1433 BTU/hr (Cinema mode)           Power Supply         AC input 100–240V, 50–60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 240W Typical (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode		
Heat Dissipation         1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode), 1485 BTU/hr (HDR mode) / 1481 BTU/hr (Cinema mode)           Power Supply         AC input 100–240V, 50–60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 460W Max (Bright mode), 240W Typical (Eco+ mode), 275W Max (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode		5°C~40°C @ 0~2,500 feet / 5°C~35°C @ 2,500~5,000 feet /
Power Supply         AC input 100–240V, 50–60Hz, auto-switching           Power Consumption         400W Typical (Bright mode), 460W Max (Bright mode), 240W Typical (Eco+ mode), 275W Max (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode	Heat Dissipation	1754 BTU/hr (Bright mode) / 1433 BTU/hr (Bright mode),
Power Consumption         400W Typical (Bright mode), 460W Max (Bright mode), 240W Typical (Eco+ mode), 275W Max (Eco+ mode)           High Altitude         3000m max altitude - must manually switch to high altitude mode	Power Supply	
High Altitude 3000m max altitude - must manually switch to high altitude mode		· · · · · · · · · · · · · · · · · · ·
	High Altitude	3000m max altitude - must manually switch to high altitude mode

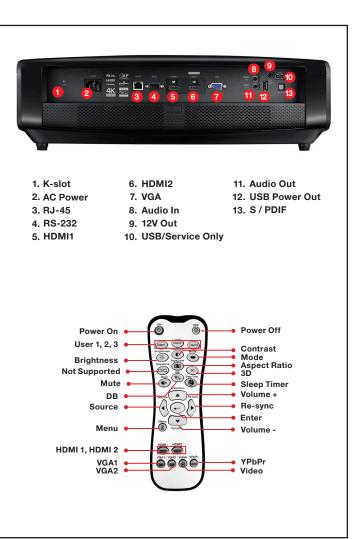
#### **COMPATIBILITY SPECIFICATIONS**

Computer Compatibility	UHD 2160p, WUXGA, HDTV 1080p, UXGA, SXGA, WXGA+, WXGA (1366x768), WXGA, HDTV (720p), XGA, SVGA, VGA, PC and Mac compatible
Video Compatibility	UHD 2160p (24/50/60Hz), 1080p (24/50/60Hz), 1080i (50/60Hz), 720p (50/60Hz), 480i/p, 576i/p
3D Compatibility†	1080p 60Hz - 30Hz per Eye / 60Hz Input - 120 Hz Output (PC Only, no Blu-Ray 3D)
Input Pag	77.8ms PureMotion OFF / 145ms PureMotion ON
Vertical Scan Rate	24Hz to 120Hz
Horizontal Scan Rate	31.000 to 135.000KHz
User Controls	Complete on-screen menu adjustment in 10 languages
I/O Connection Ports	1xHDMI 1.4a, 1xHDMI 2.0 (w/ HDCP 2.2, MHL 2.1 and Full 18Gbps), VGA-In, Audio-In (3.5mm), Audio-Out, SDPIF Out (Optical/2 Channel ONLY), USB 2.0 Port (Service), USB-A Power, RJ45, RS232C
Loop Through (Audio)	Audio Pass Thru via HDMI to 3.5mm Audio Out and Optical Out (AC3 Dolby Digital, Dolby Digital Plus, DTS)

#### **PHYSICAL SPECIFICATIONS**

Security	Kensington® lock port, password (OSD)
Weight	20.5lbs.
Dimensions (W x H x D)	19.6" x 13" x 6"

\*Light source life is dependent upon many factors, including brightness mode, display mode, usage, environmental conditions and more. Light source brightness can decrease over time.



#### Warranty

2 Year parts and labor limited warranty on the projector, 5-year or 12,000 hour light source warranty (whichever comes first)

#### What's in the Box

UHZ65, AC power cord, remote control, batteries for remote, quick start card

#### Accessories

Remote (replacement): BL-3001B Mount: BM-5001U, OCM815B, OCM818B-RU

UPC 796435 81 266 9

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