The UHD65 is a state-of-the-art 4K Ultra High Definition (UHD) projector for home cinema capable of delivering ultra sharp images with a high level of detail and astounding color. With 4 times the pixels of 1080p, a resolution of 3840x2160, 2200 lumens, 1,200,000:1 contrast ratio, and an RGBRGB color wheel, the UHD65 delivers breath-taking and vivid picture quality. Offering High Dynamic Range in the form of HDR10, vertical lens shift and a 1.6x Zoom, the UHD65 has been engineered to deliver the ultimate 4K UHD home viewing experience. The UHD65 is powered by a revolutionary Texas Instruments 4K DLP UHD chipset with a high performance DMD. This utilizes 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 Optoma UHD65 can project 4K UHD images up to 140 inches, allowing viewers to sit as far as 10 feet away and still enjoy all 4K UHD pixels. 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 5-6 feet. High Dynamic Range, also known as HDR, is the true star of the 4K UHD show. HDR leverages REC.2020 wide color gamut and DCI-P3 color gamut coverage to deliver luminous levels of white, the deepest black levels, and life-like real world color.

The UHD65's PureMotion technology dramatically enhances games, movies, and sports by eliminating noise, motion blur, and judder in fast motion video for images that are clear, consistent, and smooth. A 15% vertical lens shift and a 1.6x optical zoom provide a great deal of flexibility in terms of installation location within the home. The lamp life on the UHD65 is a robust 10,000 hours in ECO mode and 15,000 hours in Dynamic mode.
OPTICAL/TECHNICAL SPECIFICATIONS

Display Technology
“Single 0.66” TRP S610 4K UHD DMD DLP® Technology by Texas Instruments®

Color Wheel
RGBRGB 6 Segment color wheel

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 (WXGA, 720p, 1080p, WUXGA, 1440p) and frame rates to 2160p 60Hz (4K UHD)

Brightness
2200 Lumens

Contrast Ratio
Up to 1,200,000:1 with Dynamic Black

REC.709 Color Gamut (non-HDR content)
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

REC.2020 & D-CI-P3 HDR Wide Color Gamuts (HDR content only)
The RGB primaries are real color defined in REC.2020 (8K/2020) wide color gamut and D-CI-P3 color gamut coverage is equivalent to those used in the CIE 1931 color space (CIE 1931 color space defines links between “pure physical colors” and “perceived” colors of human vision). REC.2020 will be used anytime the source content contains HDR metadata.

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 Ultra), Xbox One S (4K UHD Blu-ray, 4K Media Streaming, & Games), or PS4 Pro (4K Media Streaming and Games only)

HDR Content: HDR 4K UHD Blu-ray Disc, HDR Xbox One S Game, HDR PS4 Pro Game, or 4K Media Streaming Service such as Amazon 4K UHD HDR Video, Netflix 4K UHD HDR Video, or Hulu 4K UHD HDR Video

SDR to HDR (Emulation, apply HDR to non-HDR content)
HDR Effects for non-HDR Content / 4 Effects: Normal, Bright, Detail, Film

PureEngine featuring PureMotion (MEMC)
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 available.

Color Depth (source content such 4K UHD Blu-ray, 4K UHD ProRes HQ files, etc.)
3840x2160 60Hz: 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*
4000/10000/15000 (Bright/ECO/Dynamic)

Projection Method
Front, rear, ceiling mount, table top

Vertical Lens Shift
15% offset (with tolerance +/- 5%)

Uniformity
85%

Offset
100% (see Vertical Lens Shift above)

Throw Ratio
1.39 ~ 2.22:1 (with tolerance +/- 5%)

Reflection Distance
4.2’ ~ 30.5’

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
28/25dB (Bright/ECO)

Remote Control
Full Function Home Remote Control

Operating Temperature
41–104°F (5–40°C), 85% max humidity

Power Supply
AC input 100–220V, 50–60Hz, auto-switching

Power Consumption
317W Typical (Bright mode), 348W Max (Bright mode), 259W Typical (Eco mode), 285W Max (Eco mode)

Compliance
RoHS, UL, FCC

High Altitude
Operating Temp @ Sea Level to 10000 feet = 23C (max); must manually switch to high altitude mode @ 5000 feet & above (using OSD)

COMPATIBILITY SPECIFICATIONS

Computer Compatibility
UHD 2160p, WUXGA, HDTV 1080p, UXGA, SXGA, WGA, WXGA, WXGA+ (1366x768), WUXGA, HDTV (720p), XGA, SVGA, VGA, PC and Mac compatible

Video Compatibility
UHD 2160p (50/50/60Hz), 1080p (4:2:0/60Hz), 1080i (50/60Hz), 720p (50/60Hz), 480p, 576p

Vertical Scan Rate
24Hz to 120Hz

Horizontal Scan Rate
31KHz 135KHz

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, SPDIF Out (Optical), USB 2.0 Port (Service), USB-A Power, RJ45, RS232C, 12V Trigger

Loop Through (Audio)
Audio Pass Thru via HDMI to 3.5mm Audio Out and Optical Out (2 channels)

POWER SPECIFICATIONS

Security
Kensington® lock port, password (OSD)

Weight
16lbs

Dimensions (W x H x D)
19.6” x 13” x 6”

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