The UHD60 is a state-of-the-art 4K Ultra High Definition (UHD) projector for home theater 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, 3000 lumens, and 1,000,000:1 contrast ratio, the UHD60 delivers breath-taking and vivid picture quality. Offering High Dynamic Range in the form of HDR10, vertical lens shift and a 1.6x Zoom, and an HDMI 2.0 port with Full 18Gbps, the UHD60 has been engineered to deliver the ultimate 4K UHD home viewing experience. The UHD60 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 UHD60 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 super luminous levels of white, the deepest black levels, and life-like real world color that was previously only possible in the cinema.

A 15% vertical lens shift and a 1.6x optical zoom provide a great deal of flexibility in terms of installation location, while dual 4 watt stereo speakers generate audio that is loud and crisp. The lamp life on the UHD60 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  
RGBCY 5 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  
3000 Lumens

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

REC.709 Color Gamut  
REC.709 color gamut provides rich accurate color based on REC.709 Color Gamut

Contrast Ratio  
3000 Lumens

4K UHD (High Dynamic Range)  
HDR Compatible (decode HDR10 metadata) / 4 Picture Modes: HDR (High Dynamic Range)

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 Wide Color Gamuts (REC.2020 and DCI-P3)  
The RGB primaries (real color) utilized in REC.2020 (BR.2020) color gamut and DCI-P3 color gamut coverage is the 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)

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

HDR Effects for non-HDR Content / 4 Effects:  
- HDR Video,  
- Normal, Bright, Film

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

UltraDetail  
Enhances image quality by improving image depth and clarity: 3 level to choose from.

Color Depth  
3840x2160 @60Hz YUV 4:4:4 (8bit), YUV 4:2:2 (8bit), YUV 4:2:0 (8bit)

Lamp Life and Type  
4000/10000/15000 (Bright/ECO/Dynamic)

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

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

Remote Control  
Full Function Home Remote Control

Throw Ratio  
3 level to choose from.

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

Uniformity  
85%

Offset  
100% (see Vertical Lens Shift above)

Aspect Ratio  
16:9 (native), 4:3, Auto, LBX (2160p and 1080p)

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

Projection Distance  
4.2’ ~ 3.0’

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  
1.8x

Digital Zoom  
0.8 ~ 2.0

Audio  
2x4W Stereo Speakers

Noise Level  
26/25dB (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  
31W 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, HDV 1080p, UXGA, SXGA, WXGA+, WXGA (1366x768), WUXGA, HDV (1280p), XGA, SXGA, VGA, PC and Mac compatible

Video Compatibility  
UHD 2160p (2160p/50/50/60Hz), 1080p (25/50/50/60Hz, 1080i (50/60Hz), 720p (50/60Hz), 480p, 576p)

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 2.0a (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 Through 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  
16lbs

Dimensions (W x H x D)  
19.6” x 15” x 6”