Take control of your home theater with voice commands. With the Alexa smart home skill or Google Actions, control your 4K UHD 2,400 lumen Optoma UHD51A projector with intuitive voice control and easy integration using Amazon Echo and Google Assistant devices.

Use voice commands to power the projector on and off, change volume, change input source and control the USB media player. Additionally, the UHD51A utilizes the latest Texas Instruments 4K UHD DLP chipset capable of displaying 8.3-million simultaneous distinct pixels at screen sizes 140 inches and higher.

A pair of HDMI 2.0 inputs with HDCP 2.2 support, HDR compatibility and wide color gamut ensure 4K device compatibility, rich lifelike color and contrast for immersive experiences. A 1.3x optical zoom and 15% vertical lens shift provide installation flexibility.
**MEDIA PLAYER FEATURES**

**USB Media Player Compatibility**
- Videos: 480p, 720p, 1080p, 1440p, 4K UHD, 4K UHD HDR
- File formats: MKV, MP4, M4V, AVI, H.264, HEVC, MOV, TS
- Audio: MP3, AAC, WAV, FLAC 16/24-bit
- Images: JPEG, BMP, GIF

**Video streaming**
- Web browser provides access to popular websites for video streaming

**PC-free Image Viewer and Document Viewer**
- Supports viewing of office documents (Word, Excel & PowerPoint), PDFs and images via USB storage devices
- Autoplay PDF / PowerPoint: 3, 5, 10, 15 & 20 second intervals

**SMARTPHONE FEATURES**

**Multimedia Streaming**
- Casting: videos, images and music from Android, iOS, Windows and Mac OS X (requires EZCast app)

**Wireless Screen Mirror**
- Mirror Android, Windows & Mac OS X (requires EZCast app)

**Companion App**
- iOS (App Store) & Android (Play Store & Amazon Appstore)

**AMAZON ALEXA FEATURES**

**Smart Home Skill**
- Commands: power on/off, volume control (1-10), change input source, media player controls (play, stop, pause, next, previous, FF, REW, start over)

**Alexa AV Gear Region Support**
- United States - English, Canada² - Canadian English

**GOOGLE ASSISTANT FEATURES**

**Actions**
- Commands: power on/off, volume control (1-10), change input source, media player controls (play, stop, pause, next, previous, FF, REW, start over), change display mode, HDR picture mode, PureMotion setting

**Region Support**
- All regions - English only

²French language support arriving late 2018.
OPTICAL/TECHNICAL SPECIFICATIONS

Display Technology
- Single 0.47” 4K UHD DMD DLP® by Texas Instruments™

Color Wheel
- RGBRGB 6 segment color wheel

Native Resolution
- 4K UHD 3840 x 2160 @ 60Hz with XPR Technology

Maximum Resolution
- 4K 4096 x 2160 @ 30Hz

Brightness
- 2,400 ANSI lumens

Contrast Ratio
- Up to 500,000:1 with Dynamic Black

Color Gamut Support
- REC 709 color gamut provides rich accurate color based on the HDTV broadcast specification. DCI-P3 wide color gamut is the equivalent to color in the CIE 1931 color space, resulting in vivid colors.

HDR (High Dynamic Range)
- HDR10 compatible (REC.2020)
- Picture Modes: Normal, Bright, Detail, Film
- HDR SIM (simulate HDR effect with non-HDR content)

4K UHD Upscale
- Upscales WXGA, 720p, 1080p, WUXGA, 1440p resolutions and frame rates up to 4K UHD (3840 x 2160), 60 Hz

Video Processing
- UltraDetail Technology enhances image quality by improving image depth and clarity

Color Depth
- 3840 x 2160 @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*
- 4,000/10,000/15,000 (Bright/ECO/Dynamic)

Projection Method
- Front, rear, ceiling mount, table top

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

Uniformity
- 80%

Offset
- 100%

Aspect Ratio
- 16:9 (native), 4:3 and LBX compatible

Throw Ratio
- 1.21 - 1.59 (with tolerance +/- 5%)

Projection Distance
- 2.9” - 34.9”

Image Size
- 34.1” - 302.4 (34.1” to 140” optimal image size)

Projection Lens
- F=2.5~3.26, f=20.91 ~ 32.62 mm manual focus

Optical Zoom
- 1.3x

Digital Zoom
- 0.8 - 2.0

Audio
- 2 x 5W speakers (stereo)

Noise Level
- 28/25dB (Bright/ECCO)

Remote Control
- Full function home remote control

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

Power Supply
- AC input 100~240V, 50~60Hz, auto-switching

Power Consumption
- 317W typical (Bright mode), 348W max (Bright mode), 259W typical (Eco+ mode), 285W max (Eco+ mode)

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
- 4K UHD 2160p, WUXGA, HDTV 1080p, UXGA, SXGA, WXGA+, WXGA (1280 x 800), WXGA, HDTV (720p), XGA, SVGA, VGA, PC and Mac compatible

Video Compatibility
- 4K UHD 2160p (24/50/60Hz), 1080p (24/50/60Hz), 1080i (50/60Hz), 720p (50/60Hz), 480i, 576i/p

HDR Source Compatibility
- Ultra HD Blu-Ray player, 4K UHD streaming media device (Roku 4K Ultra), Xbox One S / One X (Ultra HD Blu-ray, 4K media streaming & HDR gaming) and PS4 Pro (4K UHD media streaming and 4K UHD HDR gaming only)

3D Compatibility†
- Side-by-side: 1080i/50 / 60 , 720p/50 / 60
- Blue-ray 3D / Fram-pack: 1080p24, 720p50 / 60
- Over-under: 1080p24, 720p50 / 60

Scan Rate
- Vertical: 24Hz to 120Hz / horizontal: 31 to 135 KHz

I/O Connection Ports
- 2xHDMI 2.0 (w/ HDCP 2.2, MHL 2.1), VGA-in, audio-in (3.5mm), audio-out, S/PDIF out (optical), USB 2.0 (service port), USB (for Alexa Wi-Fi adapter), USB (media playback), USB, RJ-45, RS-232C, 12V trigger

Loop Through (Audio)
- Audio passthrough from HDMI to 3.5mm audio out and optical S/PDIF out (2-channel PCM)

PHYSICAL SPECIFICATIONS

Security
- Kensington® lock port, password (OSD)

Weight
- 11.75 lbs.

Dimensions (W x H x D)
- 15.4” x 11.1” x 5.1”

POWER SUPPLY

AC input 100–240V, 50–60Hz, auto-switching

AC input

Alternating current

Optical Zoom

Focal length adjustment

Parent (optical zoom)