

# Alexa-Compatible 4K UHD Projector

## UHD51A



### A smart projector for a smart home



- Alexa Smart Home skill ready
- 4K UHD, bright 2,400 lumens and RGBRGB color wheel
- HDR10 support for brighter whites, deeper black levels and vivid colors
- 4K video playback with the integrated USB media player
- Dynamic Black delivers 500,000:1 contrast ratio for exceptional black levels
- HDMI 2.0 with HDCP 2.2 connectivity ensures compatibility with 4K UHD video sources
- Vertical lens shift and 1.3x zoom for easy install

TRUE 4K 4KULTRA HD™



Take control of your home theater via voice commands with the Optoma skill for Amazon Alexa. With smart home skills, control your 4K UHD 2,400 lumen Optoma UHD51A projector with intuitive voice control and easy integration with Amazon Echo 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.

### CONNECTIVITY (May require optional accessories)



4K UHD Blu-ray Player



4K Game Console



4K Media Streaming



Computers

## OPTICAL/TECHNICAL SPECIFICATIONS

<b>Display Technology</b>	Single 0.47" 4K UHD DMD DLP® by Texas Instruments™
<b>Color Wheel</b>	RGBRGB 6 segment color wheel
<b>Native Resolution</b>	4K UHD 3840 x 2160 @ 60Hz with XPR Technology
<b>Maximum Resolution</b>	4K 4096 x 2160 @ 30Hz
<b>Brightness</b>	2,400 ANSI lumens
<b>Contrast Ratio</b>	Up to 500,000:1 with Dynamic Black
<b>Color Gamut Support</b>	REC.709 color gamut provides rich accurate color based on the HDTV broadcast specification & used with all non-HDR content DCI-P3 wide color gamut is the equivalent to color in the CIE 1931 color space, resulting in vivid colors
<b>HDR (High Dynamic Range)</b>	HDR10 compatible (REC.2020) Picture Modes: Normal, Bright, Detail, Film HDR SIM (simulate HDR effect with non-HDR content)
<b>4K UHD Upscale</b>	Upscales WXGA, 720p, 1080p, WUXGA, 1440p resolutions and frame rates up to 4K UHD (3840 x 2160), 60 Hz
<b>Video Processing</b>	UltraDetail Technology enhances image quality by improving image depth and clarity
<b>Color Depth</b>	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) 3840 x 2160 @60Hz YUV 4:4:4 (8bit), YUV 4:2:2 (8bit), YUV 4:2:0 (8bit, 10bit, 12bit)
<b>Lamp Life and Type*</b>	4,000/10,000/15,000 (Bright/ECO/Dynamic)
<b>Projection Method</b>	Front, rear, ceiling mount, table top
<b>Vertical Lens Shift</b>	15% offset (with tolerance ±5%)
<b>Uniformity</b>	80%
<b>Offset</b>	100%
<b>Aspect Ratio</b>	16:9 (native), 4:3 and LBX compatible
<b>Throw Ratio</b>	1.21 - 1.59 (with tolerance +/- 5%)
<b>Projection Distance</b>	2.9' - 34.89'
<b>Image Size</b>	34.1" - 302.4 (34.1" to 140" optimal image size)
<b>Projection Lens</b>	F=2.5~ 3.26, f=20.91 ~ 32.62 mm manual focus
<b>Optical Zoom</b>	1.3x
<b>Digital Zoom</b>	0.8 - 2.0
<b>Audio</b>	2 x 5W speakers (stereo)
<b>Noise Level</b>	28/25dB (Bright/ECO)
<b>Remote Control</b>	Full function home remote control
<b>Operating Temperature</b>	41–104°F (5–40°C), 85% max humidity
<b>Power Supply</b>	AC input 100–240V, 50–60Hz, auto-switching
<b>Power Consumption</b>	317W typical (Bright mode), 348W max (Bright mode), 259W typical (Eco+ mode), 285W max (Eco+ mode)
<b>High Altitude</b>	Operating temp @ sea level to 10000 feet = 23C (max); must manually switch to high altitude mode @ 5000 feet & above (using OSD)

## SMART FEATURES

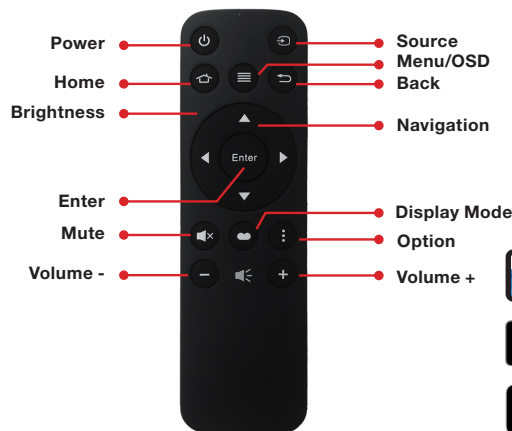
<b>Amazon Alexa Commands</b>	<b>Smart home commands:</b> power on/off, volume control (1-10), change input source, media player controls (play, stop, pause, next, previous, FF, REW, start over)
<b>Alexa AV Gear Region Support</b>	United States - English, Canada² - Canadian English
<b>Companion App</b>	iOS (App Store) and Android (Play Store)
<b>USB Media Player Compatibility</b>	<b>Videos:</b> 480p, 720p, 1080p, 1440p, 4K UHD, 4K UHD HDR <b>File formats:</b> MKV, MP4, M4V, AVI, H.264, HEVC, MOV, TS <b>Audio:</b> MP3, AAC, WAV, FLAC 16/24-bit <b>Images:</b> JPEG, BMP, GIF
<b>Multimedia Streaming (Requires EZCast app)</b>	<b>Casting:</b> videos, images and music from Android, iOS, Windows and Mac OS X <b>Video streaming:</b> Web browser provides access to popular websites for video streaming
<b>Wireless Screen Mirror</b>	Mirror Android, Windows and Mac OS X (requires EZCast app)
<b>PC-free Image Viewer and Document Viewer</b>	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

## COMPATIBILITY SPECIFICATIONS

<b>Computer Compatibility</b>	4K UHD 2160p, WUXGA, HDTV 1080p, UXGA, SXGA, WXGA+, WXGA (1280 x 800), WXGA, HDTV (720p), XGA, SVGA, VGA, PC and Mac compatible
<b>Video Compatibility</b>	4K UHD 2160p (24/50/60Hz), 1080p (24/50/60Hz), 1080i (60/50Hz), 720p (50/60Hz), 480i/p, 576i/p
<b>HDR Source Compatibility</b>	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)
<b>3D Compatibility†</b>	Side-by-side: 1080i50 / 60, 720p50 / 60 Blu-ray 3D / Frame-pack: 1080p24, 720p50 / 60 Over-under: 1080p24, 720p50 / 60



- 1. RJ-45
- 2. RS-232C
- 3. HDMI1
- 4. HDMI2
- 5. VGA
- 6. 12V-Out
- 7. Audio-In
- 8. USB Service Only
- 9. USB (Alexa Wi-Fi)
- 10. USB (Media Player)
- 11. USB (Wireless Display)
- 12. Optical S/PDIF
- 13. AC Power
- 14. Kensington™ Lock



<b>Scan Rate</b>	Vertical: 24Hz to 120Hz / horizontal: 31 to 135 KHz
<b>I/O Connection Ports</b>	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
<b>Loop Through (Audio)</b>	Audio passthrough from HDMI to 3.5mm audio out and optical S/PDIF out (2-channel PCM)

## PHYSICAL SPECIFICATIONS

<b>Security</b>	Kensington® lock port, password (OSD)
<b>Weight</b>	11.75 lbs.
<b>Dimensions (W x H x D)</b>	15.4" x 11.1" x 5.1"

### Warranty

2-year limited warranty, 90-days lamp

### What's in the Box

UHD51A, lens cap, AC power cord, HDMI cable, remote control, batteries for remote, WUSB Wi-Fi adapter (for Alexa Wi-Fi or wireless screen mirroring), multilingual CD-ROM, user's manual, quick start guide and warranty card

### Optional Accessories

Mount, 3D glasses and wireless USB adapter (for wireless screen mirroring or Alexa Wi-Fi replacement)

### Accessory Part Numbers

Lamp: BL-FP240E  
Remote: BR-3081B  
Mount: BM-5001U, OCM815B, OCM818B-RU  
Wireless adapter: WUSB  
3D DLP Link glasses: ZD302

UPC 796435 81 308 6

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\*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.

†French language support arriving late 2018.

†3D content can be viewed with DLP Link active shutter 3D glasses when projector is used with a compatible 3D player. Please visit us at OptomaUSA.com for more information.

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