4K UHD Smart Projector
UHD51A

Take control of your home theater with voice commands. With the Alexa smart home and custom skills 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

Video 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

VIDEO STREAMING
Web browser provides access to popular websites for video streaming

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

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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)

Custom Skill Commands:
- change display mode
- HDR picture mode
- PureMotion setting

Alexa AV Gear Region Support
- United States - English
- Canada² - Canadian English
- French language support arriving late 2018.

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)

Custom Skill Commands:
- 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.

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

Color Depth: 3840 x 2160 @ 60Hz YUV 4:4:4 (8bit, 10bit, 12bit), YUV 4:2:2 (8bit, 10bit, 12bit), YUV 4:4:4 (8bit, 10bit, 12bit)

Lamp Life and Type*: 4,000,000/10,000/15,000 (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' ~ 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/ECO)

Remote Control: Full function home remote control

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

Power Consumption: 100~240V, 50~60Hz, auto-switching

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

Power Consumption: 317W typical (Bright mode), 348W max (Bright mode), 259W

High Altitude: Operating temp @ sea level to 10000 feet = 23°C (max); must manually switch to high altitude mode @ 5000 feet & above

5. VGA

10. USB (Media Player)

12. Optical S/PDIF

13. AC Power

14. Kensington™ Lock

What's in the Box

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: OCM815B, OCM818B-RU
Wireless adapter: WUSB

3D DLP Link glasses: ZD302

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

Optional Accessories

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

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/p, 576i/p


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

I/O Connection Ports: 2 x HDMI 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”

†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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