Bright 4K UHD Smart Projector
UHD52ALV

Voice assistant-compatible projector for lights-on viewing

- Smart+ technology with Alexa, Google Actions and IFTTT integration, and InfoWall
- 4K UHD, bright 3,500 lumens and RGBWRGBW color wheel
- HDR10 and HLG support for brighter whites, deeper black levels and vivid colors
- 4K video playback with the integrated USB media player
- Optoma Connect smart home and SmartFIT setup companion apps (Android & iOS)
- 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

Enjoy lights-on viewing and taking control via voice commands with the 4K UHD, 3,500 lumen Optoma UHD52ALV. Compatibility with Amazon Echo and Google Assistant devices enables easy integration into smart homes regardless of the preferred voice assistant.

Use voice commands to power the projector on and off, change volume, change input source and control the USB media player. Additionally, the UHD52ALV 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.

CONNECTIONS (May require optional accessories)

- 4K UHD Blu-ray Player
- 4K Game Console
- 4K Media Streaming
- Computers
## Build a smarter home theater.

### 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

**Companion Apps**
- Optoma Connect (smart home, IFTTT setup), InfoWall, remote control (Android & iOS)

### 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

### 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  RGBWRGBW 8 segment color wheel
Native Resolution  4K UHD 3840 x 2160 @ 60Hz with XPR Technology
Maximum Resolution  4K 4096 x 2160 @ 30Hz
Brightness  3,500 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.
HDRI (High Dynamic Range)  HDR10 (REC.2020) & HLG compatible
Picture Modes: Normal, Bright, Detail, Film
HDMI 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
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 2:2:2 (8bit), YUV 4:2:0 (8bit, 10bit, 12bit)
Lamp Life  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” - 34.89”
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  25dB
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 10,000 feet = 23°C (max); typical (Eco+ mode), 285W max (Eco+ mode)

COMPATIBILITY SPECIFICATIONS

Computer Compatibility  4K UHD 2160p, WUXGA, HDTV 1080p, UXGA, SXGA, WUXGA, WUXGA (1280 x 800), WUXGA, HDTV (720p), XGA, SXGA, 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
HDMI 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/p / 60, 720p50 / 60
Blu-ray 3D / Frame-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 5.1” x 11.1”