Enjoy every detail in your own VIP seat

4K UHD · **4K ULTRA HD™** · **DLP TEXAS INSTRUMENTS** · **HDR COMPATIBLE**

- Bright 2400 lumens and 500,000:1 high contrast
- Brand new designed lens for 4K UHD resolution with 1.3x zoom and perfect throw for theater room or living room use
- 8.3M pixels on screen, CTA certified 4K UHD product
- Exceptional colors, 100% Rec. 709, 80% DCI-P3 color gamut coverage
- Stunning HDR performance (HDR10 compatible), BT2020 compatible
- World's 1st Alexa Voice assistant supported projector *
- Media Player, Wifi Display*
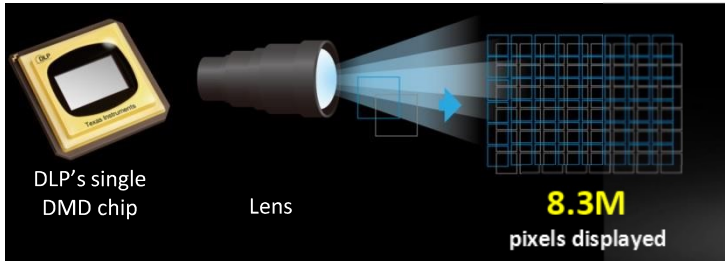- Optoma PureMotion Technology**
- Full 3D support**
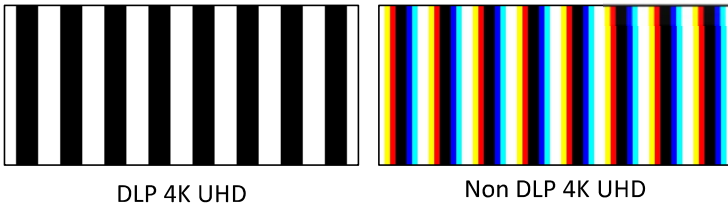- Vertical lens shift

*UHD51A feature

Full 8.3 million pixels display

Inside this projector is the DLP DMD chip that adapted the best technologies from over 90% of the world's digital and IMAX cinemas, delivers the amazing big screen image quality, and full 8.3M pixel images on the screen.

DLP's single DMD chip   Lens   **8.3M** pixels displayed

Perfect Pixel Alignment

DLP 1-chip system is perfectly aligned compared to other non-DLP 4K projectors.

DLP 4K UHD   Non DLP 4K UHD

500,000:1 high contrast

To see the entire fine details of 4K UHD contents, the advantage of high contrast is that you can see the true black and white levels without missing out on the details.

500,000:1   20,000:1

Sharp details - Brand new lens designed for 4K UHD resolution

The resolution of a lens is expressed in line pairs per millimeter (LP/mm, or l/p). The brand new high lp grade lens in the UHD5x series is specially engineered for 4K UHD resolution.

World's 1st projector with Alexa Voice Assistant support*

Integrates with Amazon Alexa Smart Home and custom skills to enable projection to fluidly align with speakers, screen, lighting and more in any smart home setting.
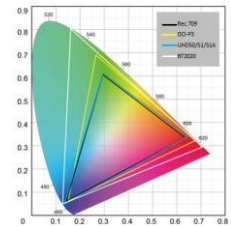*UHD51A only

amazon alexa ENABLED

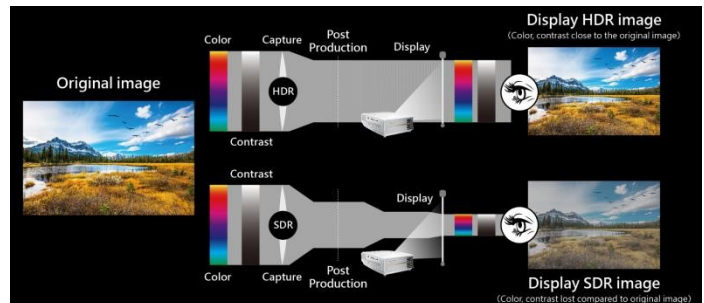## Exceptional Colors - Wide Color Gamut Display

Equipped with an RGBRGB color wheel, and HDR10 with 100% coverage of Rec.709 color gamut, the Optoma UHD5x series packs a visual punch, with its clarity, brightness and eye-popping color.

100% Rec. 709 Coverage ratio **108%** Rec. 709 Area ratio

HDR10 compatible

To display a wider and richer range of colors, much brighter whites, and much deeper, darker blacks.

HDR COMPATIBLE

Quiet operation

Only 25dB on Eco mode, lower than whisper.

Quiet operation **25**dB only

PureMotion (UHD51A/51 only)

A form of video processing with an attempt to make video filmed in 24fps to be more smooth and to compensate for motion blur.

Enable   Disable

Flexible Installation

1.3x Zoom room ratio lets you enjoy 120"image just from 3.21meters away, and supports +10% vertical lens shift.

Color Management System (CMS)

Display accurate lifelike colors to best match your viewing environment. This unique feature provides you with the flexibility to fine-tune the color settings to the Rec. 709 standard for optimal precision.

CMS

Full 3D Support (UHD51A/51 only)

UHD51A and UHD51 are Full 3D projectors with DLP-Link 3D solution. To enable 3D mode, the input frame rate should be set

Built-in Media Player (UHD51A only)

Without the need for a laptop, the built-in media player allows you direct access and playback the video, photo, music and MS office files via a USB stick, or an external storage device.

Photos   Video   Music   Office Viewer   Setup
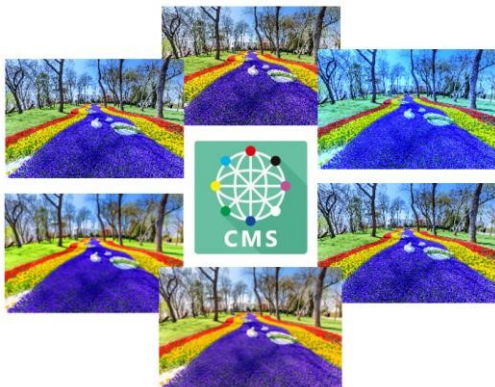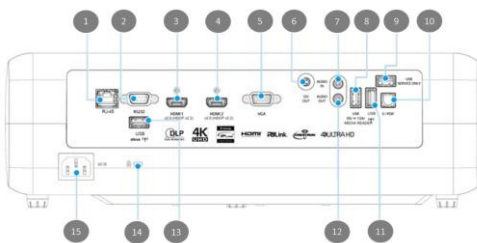
HDMI with HDCP 2.2 support

HDCP 2.2 is the next generation of copy protection for the 4K era, and devices without HDCP 2.2 support won't be able to playback the contents.
The UHD51A and UHD51 both built in with a pair of HDMI 2.0 inputs with HDCP 2.2 support, and even the UHD50 also has single input with HDCP 2.2 support, , to ensure compatibility with the latest 4K UHD video playback device.

HDCP 2.2

Compact form size

Compact form factor with ultimate design, less than two A4 size, more ease for enjoy the big 4K entertainment either at living room or your private room.

15,000 hours long lamp life
maximum the projector efficiency with Low TCO.

15,000 hours

Specifications

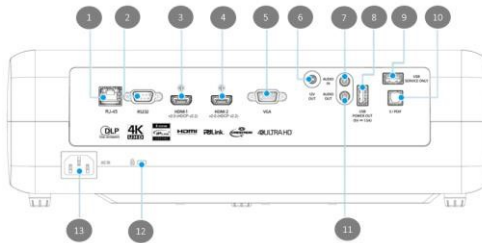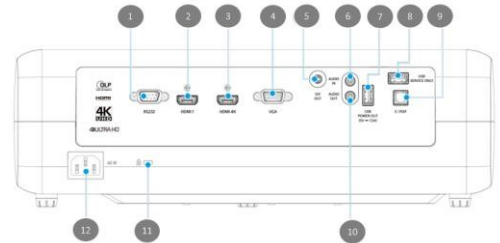| Model	UHD51A	UHD51	UHD50
Technology	DLP XPR Technology	DLP XPR Technology	DLP XPR Technology
Resolution	4K UHD (3840*2160) 8.3M pixels on screen	4K UHD (3840*2160) 8.3M pixels on screen	4K UHD (3840*2160) 8.3M pixels on screen
Brightness	2,400 ANSI Lumens	2,400 ANSI Lumens	2,400 ANSI Lumens
Contrast	500,000:1	500,000:1	500,000:1
Throw Ratio	1.2 – 1.56	1.2 – 1.56	1.2 – 1.56
Lens Shift Range	Vertical +10%	Vertical +10%	Vertical +10%
Weight	5.3 kg	5.4 kg	5.34 kg
Dimensions (W x D x H) (mm)	393 x 282 x 118 (w/o feet)	393 x 282 x 118 (w/o feet)	393 x 282 x 118 (w/o feet)
Lamp Life	15,000 hours	15,000 hours	15,000 hours
Noise Level (Eco)	25 dB	25 dB	25 dB
Key features	Voice Assistant support (Alexa) Built-in Media Player Brand new lens designed 100% Rec.709 coverage ratio 108% Rec.709 area ratio HDR10 compatible Dual HDMI with HDCP 2.2 support Full HD 3D PureMotion Vertical Lens Shift Color Management System (CMS)	Brand new lens designed 100% Rec.709 coverage ratio 108% Rec.709 area ratio HDR10 compatible Dual HDMI with HDCP 2.2 support Full HD 3D PureMotion Vertical Lens Shift Color Management System (CMS)	Brand new lens designed 100% Rec.709 coverage ratio 108% Rec.709 area ratio HDR10 compatible Single HDMI with HDCP 2.2 support PC 3D PureMotion Vertical Lens Shift vertical Keystone Color Management System (CMS)

Connections

UHD51A

1. RJ-45
2. RS232
3. HDMI 1 (HDCP 2.2)
4. HDMI 2 (HDCP 2.2)
5. VGA
6. 12V OUT
7. AUDIO IN
8. USB Power Out
   (5V 1.5A, USB 3.0)
9. Service
10. S/PDIF
11. USB
    (for wireless dongle)
12. AUDIO OUT
13. USB-A for Alexa
14. Kensington Lock
15. Power Socket

UHD51

1. RJ-45
2. RS232
3. HDMI 1 (HDCP 2.2)
4. HDMI 2 (HDCP 2.2)
5. VGA
6. 12V OUT
7. AUDIO IN
8. USB Power Out
   (5V 1.5A, USB 3.0)
9. USB (service only)
10. S/PDIF
11. AUDIO OUT
12. Kensington Lock
13. Power Socket

UHD50

1. RS232
2. HDMI 1
3. HDMI 4K
   (HDCP 2.2 & MHL)
4. VGA
5. 12V OUT
6. AUDIO IN
7. USB Power Out
   (5V 1.5A)
8. USB (service only)
9. S/PDIF
10. AUDIO OUT
11. Kensington Lock
12. Power Socket