



Amazingly Sharp Images In Brilliant Colors

Create the ultimate Home Theater experience with color fidelity.



- Crystal clarity - 50,000:1 contrast
- Bright vivid Colors – 2,200 ANSI Lumens
- New Pure RGBRGB C/W provide the best color image
- New Ultra Detail II, giving a stunning crystal clear, pin sharp picture
- Exceptional Full HD 1080P image quality made ultra-smooth with PureMotion
- The latest natural real 2D -> 3D lifelike processing
- Total control - advanced Colour Management System CMS+
- Support New 3D professional RF Glasses for best 3D feelings

Full HD Home Cinema Projector

HD50

6 Segment Primary Color Wheel



HD50 is continuously using the six segment RGBRGB color wheel, wider color gamut than HDTV, in order to reproduce the most abundant pure color. The primary color wheel steps up the brightness and contrast as well; it brings off better gradation performance of warm red, translucent blue, and yellow.

Real 2D to 3D Technology



Real 2D to 3D technology is measuring the timeline of each film and dividing image to multiple layers, in order to define the image to real 3D image, and solve the distorted situation. You can enjoy the big game, favorite TV shows, and movies in stunning 3D to ensure you get the most out of your experience.



Dynamic Black V



Dynamic Black V smoothly adjusts the lamp output automatically, based on the brightness information of each frame; to create a stunning contrast ratio. Bright scenes are crisp and clear, while dark scenes remain detailed with deep black which gives exceptional light and shade detail.



Color Management System



The color management system provides the flexibility to choose over 200 options of color gamut, various Gamma, color temperatures or alternatively, fine tune intensity and x/y co-ordinates of primary and secondary colors for ultimate calibration precision.



Ultra Detail II

The Ultra Detail II is upgrading the enhancement to ensure that all the edges and lines in a 1080P image reach to 124Mega pixel per second. Its processing algorithms and a dedicated image detail processor fully reproduced on the screen. Moreover, the new User mode allows customer to customize the resolution intensity(0% ~ 150%).



Pure Motion

The Pure Motion provides advanced motion control processing that eliminates motion blurring or image judder, even in high-speed action sequences 2D or 3D modes. PureMotion retains the quality of film while maximizing the detail of every frame. Also, its customization options allow customer to adjust to fit individual's viewing preferences.



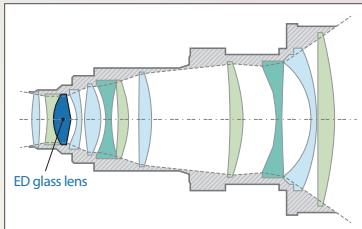
Pure Color

Pure Color provides vivid, perfectly balanced color with impeccable color uniformity for vibrant natural looking images. It reproduces billions of colors ensuring smooth tonal transitions and subtle graduations between hues.



1.5X Pure Lens

HD50 is equipped with an exceptional all-glass lens, assembled to four groups by 12 multi-coated glass lenses; this 1080P high resolution 1.5X ratio lens provides excellent focus. It reduces problems of chromatic aberration and optimizes coating to remove the appearance of ghost and purple flare at any focal length; the lens can get sharper images, more specific details and color rendering. Perfectly reproduce the movie screen.



ISFccc

HD50 is equipped with ISFccc function, which allows a ISFccc certified calibrator to adjust contrast, tint, sharpness and color levels for both day and night time viewing with a high degree of accuracy.



Connectivity



1. 3D SYNC OUT(5V)
2. HDMI×2
3. VGA-IN
4. Component
5. USB Power(5V DC 1.5A)
6. USB(Service)
7. +12V Relay
8. Serial RS-232 for Control
9. Composite Video

Specification

Resolution	1,920×1,080 (1080P)
Brightness	2,200 ANSI Lumen
Contrast Ratio	50,000:1
Projection Lens	f=20.7~31.05 mm, F/2.4~2.9; 1.5× manual zoom/focus lens
Lens Shift	vertical 110% ~ 124% ±5%
Projection Image Size	50~150"
Keystone Correction	Vertical ±15°(system)
Power Supply	Universal AC 100~240V; 50/60Hz
Lamp Life	3,500/5,000/7,000 hr (Bright/Eco/Dynamic Black)
Dimension/Weight	28.9×26.9×12.9 cm / 2.8 kg

* Optoma reserves the right to change this brochure without prior notice, please refer to www.optoma.com for any change.