3D HOME THEATER PROJECTOR
HD50

Optoma
Projector Expert

ULTIMATE HOME CINEMA PROJECTOR

HD Native Full HD 1080p (1920 x 1080) resolution for the best possible digital home cinema experience

Next-generation exclusive Pure Engine processor for balanced color and sharp, judder-free video

2200 lumens bright and 50,000:1 contrast ratio for deeper blacks and exceptional shadow detail

All glass multi-coated lens with vertical lens shift and 1.5X zoom ratio for superior focus and installation flexibility

3D VESA 3D Sync Port with 2D to 3D capability. Enjoy your favorite show or movie in full 3D

isf ccc ISFccc Certified for calibrated Day/Night viewing modes

PICTURE BY **DLP** TEXAS INSTRUMENTS | FEATURED BrilliantColor™ | **Full 3D** 1080p | WIDESCREEN **16:9** ENHANCED | **HDMI**™ HIGH DEFINITION MULTIMEDIA INTERFACE | **RoHS** COMPLIANT

The Optoma HD50 Home Cinema projector delivers magnificent quality video with an sharp HD 1080p image with crisp details, perfectly balanced color and judder-free motion with Optoma's exclusive Pure Engine technology.

With a 2200 lumens bright image and fifth-generation DynamicBlack™ technology to generate a remarkable 50,000:1 contrast ratio, the Optoma HD50 produces visually stunning video that is richer, more saturated, with higher color accuracy and better tonal range for natural looking skin tones and true-to-life colors.

The HD50 redefines the home cinema category with its extensive list of advanced features: all glass multi-coated lens with vertical lens shift, 1.5x zoom ratio for superior focus and installation flexibility, UltraDetail II for visibly sharper image detail, PureColor for vivid, perfectly balanced color, PureMotion for judder-free video, 2D to 3D conversion converts standard video to 3D, Color Management System (CMS) for accurate color, IFSccc Certification with calibrated Day/Night viewing modes, Powered USB port and 2x RF 3D glasses (with emitter) are included for out-of the box 3D viewing.

CONNECTIVITY (May require optional accessories)

COMPUTERS | SMART PHONES | TABLETS | 3D BLU-RAY/DVD PLAYERS SET TOP BOXES | CAMCORDERS | GAME CONSOLES | DIGITAL CAMERAS | Roku® | Apple TV®

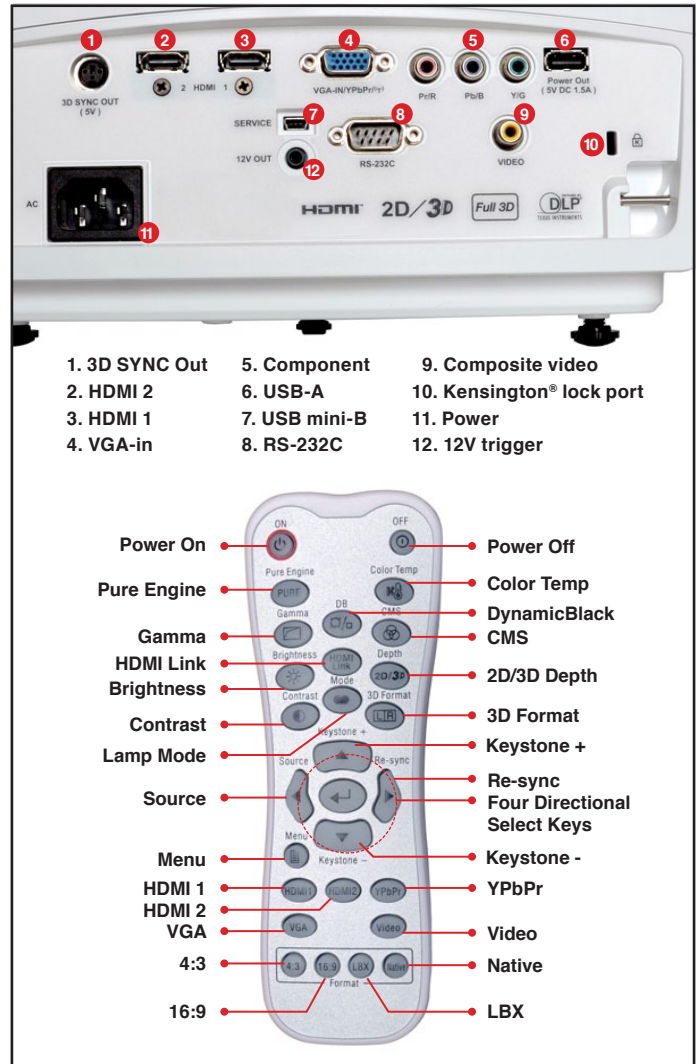# 3D HOME THEATER PROJECTOR — HD50

OPTICAL/TECHNICAL SPECIFICATIONS

Display Technology	Single 0.65" DC3 DMD DLP® Technology by Texas Instruments™
Native Resolution	1080p (1920 x 1080)
Maximum Resolution	HD (1920 x 1080)
Brightness (Typical)	2200 lumens
Contrast Ratio	50,000:1 (full on/full off)
Displayable Colors	1.07 Billion
Lamp Life*	5000/3000 Hours (ECO/normal)
Projection Method	Front, rear, ceiling mount, table top
Keystone Correction	±40° Vertical
Uniformity	>80%
Aspect Ratio	16:9 native, 4:3 compatible
Throw Ratio	1.39–2.09 (distance/width)
Projection Distance	3.9'–32.8' (1.2–10 m)
Image Size (Diagonal)	25.5"–325" (0.65–8.3 m)
Projection Lens	F=2.42–2.97, f=20.7–31.05 mm 1.5x manual zoom and focus
Lens Shift Offset	Vertical: 110% ~ 124%
Digital Zoom	0.8 ~ 2.0
Noise Level	29dB
Remote Control	Backlit IR remote
Operating Conditions	41–113°F (5–45°C), 85% max humidity
Power Supply	AC Input 100–240V, 50–60Hz, auto-switching
Power Consumption	Max 310W (Normal), Min 230W (Eco+), <0.5W (standby-ECO)

COMPATIBILITY SPECIFICATIONS

Computer Compatibility	WUXGA, HD, UXGA, SXGA+, WXGA+, WXGA, SXGA, XGA, SVGA, VGA
Video Compatibility	NTSC, PAL, SECAM, SDTV (480i), EDTV (480p), HDTV (720p, 1080i/p)
3D Compatibility†	Supports all HDMI 1.4a mandatory 3D formats (Frame pack, side-by-side, top-bottom) and up converts frame rate from 60Hz to 120Hz or 24Hz to 144Hz (i.e 60 or 72 frames per eye). 3D glasses are needed and are sold separately. Refer to user manual for details.
Vertical Scan Rate	24–85Hz, 120Hz
Horizontal Scan Rate	15.375–91.146KHz
User Controls	Complete on-screen menu adjustments in 22 languages
I/O Connection Ports	Two HDMI v1.4a, VGA-in, 3D VESA, component, composite video, 12V trigger, USB-A (for power), RS-232C, USB mini-B

PHYSICAL SPECIFICATIONS

Security	Kensington® lock port, security bar and keypad lock
Product Weight	5.95 lb (2.7 kg)
Product Dimensions (W x H x D)	11.26" x 4.88" x 10.43" (286 x 124 x 265 mm)

1. 3D SYNC Out	5. Component	9. Composite video
2. HDMI 2	6. USB-A	10. Kensington® lock port
3. HDMI 1	7. USB mini-B	11. Power
4. VGA-in	8. RS-232C	12. 12V trigger

Remote control callouts:
- Power On — Power Off
- Pure Engine — Color Temp
- Gamma — DynamicBlack
- HDMI Link — CMS
- Brightness — 2D/3D Depth
- Contrast — 3D Format
- Lamp Mode — Keystone +
- Source — Re-sync / Four Directional Select Keys
- Menu — Keystone -
- HDMI 1 — YPbPr
- HDMI 2
- VGA — Video
- 4:3 — Native
- 16:9 — LBX

Warranty

2-Year Optoma Express Service, 1-Year on Lamp

What's In the Box

HD50 projector, AC power cord, remote control, batteries for remote, lens cap, CD-ROM user's manual, 2x RF 3D Glasses, RF 3D emtitter, quick start card and warranty card

Optional Accessories

Universal ceiling mounts, Optoma screen, DLP® Link™ 3D glasses, RF 3D glasses, RF 3D emitter, wireless HDMI system and Cat6 HDBaseT

Accessory Part Numbers

Lamp: 5811118543-SOT	Remote: 5041840700
Single-Cat6 HDBaseT kit: EVBMN-M110	Wireless HDMI system: WHD200
RF 3D Glasses: ZF2300GLASSES	RF 3D emitter: BC300
DLP® Link™ 3D glasses: ZD302	Universal ceiling mount: BM-5001U
Universal ceiling mount (with extension pole): OCM815W	
Universal ceiling mount: OCM818W-RU	

UPC 796435 81 209 6

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