

Home Cinema 5050UB 4K PRO-UHD^{®1} Projector

with Advanced 3-Chip Design, HDR10² and HLG



The ultimate 4K experience for the DIY home theater.

Epson[®] 4K PRO-UHD — delivers an amazing 4K UHD experience with advanced pixel-shifting resolution-enhancement technology¹

HDR10 and HLG High Dynamic Range and Rich Black Contrast — full 10-bit color output² and a contrast ratio up to 1,000,000:1 deliver an extraordinary range of color and detail in both bright and dark scenes

Advanced 3-Chip, 3LCD Technology — sophisticated parallel pixel processing and a state-of-the-art 3-chip architecture from Epson deliver Best-in-Class Color Brightness³ and amazing color accuracy

100% Balanced Color and White Brightness — 2,600 lumens of color and 2,600 lumens of white brightness⁴ for vibrant, rich color

3-Axis Precision Motorized Lens — for powered focus, 2.1x zoom, up to ± 96% vertical and up to ± 47% horizontal lens shift

L*a*b* Ultra Wide Color Gamut — delivers 100% of the 3-dimensional DCI-P3 color gamut⁵, the digital cinema standard; 12-bit digital color processing chip

Delta Level Color Accuracy — low Delta E, for extremely accurate color reproduction

Epson's Advanced Projection Lens — displays a bright, uniform image with virtually no hot spots or chromatic aberration

No Color Wheel — images are free from any distracting rainbow effect; balanced color and white brightness means no white segments



¹ 4K Enhancement Technology shifts each pixel diagonally to double Full HD resolution. Resolution is Full HD in 3D Mode.

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Specifications

Projection System Epson 3LCD
Chip Design (Architecture) 3-Chip
Projection Method Front/rear/ceiling mount
Product Color White
Driving Method Poly-silicon TFT Active Matrix, 0.74" - wide panel
Resolution K Enhancement¹ (1920 x 1080 x 2)
Maximum Resolution 4096 x 2160
Supported Resolutions 3840 x 2160, Full HD 1080p/i, HD 720p, 576p/i, 480p/i
Aspect Ratio (Native)
 16:9 widescreen (4:3 resize, 16:10 resize)
 Compatible with 4:3 with Normal, Full or Zoom Modes
Color Brightness⁴ Color Light Output: 2,600 lumens
White Brightness⁴ White Light Output: 2,600 lumens
Contrast Ratio Up to 1,000,000:1, Auto Iris on
White Balance 8-point adjustment
Color Reproduction Full-color (up to 1.07 billion colors)
Size (Projected Distance) 50" – 300" (Zoom: Wide and Zoom: Tele)
Keystone Correction Vertical: ± 30 degrees (manual)
Color Processing Full 10-bit (partial 12-bit)
Lamp Type 250 W UHE
Lamp Life⁷
 ECO Mode: Up to 5,000 hours
 Medium Mode: Up to 4,000 hours
 High Mode: Up to 3,500 hours

Projection Lens

Type Powered focus/optical zoom/lens position
F-number 2.0 – 3.0
Focal Length 22.5 – 46.7 mm
Zoom Ratio 1 – 2.1
Throw Ratio Range 1.35–2.84
Lens Shift
 Vertical: -96.3% to +96.3% (H center, powered)
 Horizontal: -47.1% to +47.1% (V center, powered)
Lens Cover Powered, Slide Lens Shutter

Other Features

Display Performance 4K/UHD @ 60 Hz compatible, HDR10², 3-dimensional DCI-P3 color Gamut⁵, 4Ke¹, 1080p; HD, 2D, 3D
Color Modes
 2D: Dynamic, Bright Cinema, Natural, Cinema, Digital Cinema, Black & White Cinema
 3D: Dynamic, Cinema

Interface

2x HDMI (HDCP 2.2)
 1x USB Type A (for optical HDMI cable 300 mA max. power supply only)
 1x USB (for wireless and firmware)
 1x Mini USB (service only)
 1x LAN (RJ45)
 1x Computer/D-sub 15-pin
 1x RS-232c
 Trigger out 12 V DC, 200 mA maximum



Other Features (continued)

Epson Cinema Filter
 Automatically adjusts to color mode
 On: Cinema, Digital Cinema
 Off: Natural, Black & White Cinema, Bright Cinema, Dynamic, 3D Dynamic, 3D Cinema
Auto Iris in 2D and 3D
 Automatically adjusts to video source
 Off/On: High-speed or Normal, 2D and 3D mode
Super-resolution 2D and 3D
Frame Interpolation 1080p @24 Hz
Input Signal
 480i, 576i, 480p, 576p, 720p, 1080i, 1080p, 4K x 2K
 HDMI: TMDS
Computer Compatibility PC, Mac[®]
Operating Temperature 41 ° to 95 °F (5 ° to 35 °C)
Power Supply Voltage 100–240 VAC ± 10%, 50/60 Hz
Power Consumption ECO Mode: 283 W
 Normal Mode: 373 W
Fan Noise 20 – 31 dB
Security Kensington security lock port
Parental Controls Power Button Lock hinders projector from being turned on without parental supervision

Dimensions (W x D x H)

Including feet: 20.5" x 17.7" x 7.6"
 Weight: 24.7 lb

Remote Control

Features Front and rear directional
Operating Distance 32 ft (10 m)
Operating Angle
 Front Right/Left: ± 30 degrees
 Upper/Lower: ± 30 degrees
 Rear Right/Left: ± 30 degrees
 Upper/Lower: + 10 – + 70 degrees

Eco Features

RoHS compliant
 Recyclable product⁸
 Epson America, Inc. is a SmartWay[®] Transport Partner⁹

Support

Epson ConnectionSM
 Pre-sales support: U.S. 800-463-7766, Canada 800-807-7766
 Internet website: U.S. www.epson.com, Canada www.epson.ca
Service Programs 2-year projector limited warranty, Extra CareSM Home Service program, PrivateLine[®] dedicated toll-free support (U.S. and Canada only) and 90-day limited lamp warranty

What's in the Box

Home Cinema 5050UB projector, power cord, two HDMI cable clamps, remote control with (2) AA batteries, Quick Setup Guide

Ordering Information

Home Cinema 5050UB	V11H930020
Genuine Epson Lamp	V13H010L89
Replacement Air Filter	V13H134A39
RF 3D Glasses	V12H548006
Projector Ceiling Mount	CHF4000
Repair/Exchange 1-year Extended Service Plan	EPPSNVHTRB1
Repair/Exchange 2-year Extended Service Plan	EPPSNVHTRB2
White Cable Cover	V12H003022

1 4K Enhancement Technology shifts each pixel diagonally to double Full HD resolution. Resolution is Full HD in 3D Mode. | 2 HDR @ 60 Hz performance available with select devices. For more information, see www.epson.com/hdrcompatibility | 3 Color Brightness measured per IDMS 15.4. Additional colors and picture modes tested. Top-selling Epson[®] 3LCD projectors vs. comparable top-selling 1-chip DLP projectors based on NPDP sales data for May 2017 – April 2018. COLOR BRIGHTNESS WILL VARY BASED ON USAGE CONDITIONS. | 4 | Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with IDMS 15.4; white light output measured in accordance with ISO 21118. | 5 Entire DCI color space can be displayed in Digital Cinema Mode only. | 6 Based on TFCinfo: U.S. Projector Brand Customer Perception and Preference Study, Multimedia Projectors 2017. | 7 Lamp life will vary depending upon mode selected, environmental conditions and usage. Lamp brightness decreases over time. | 8 For convenience and reasonable recycling options, visit www.epson.com/recycle | 9 SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency.

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