EPSON
EXCEED YOUR VISION

SPECIFICATION SHEET

Projectors

4K PRO-UHD

Pro Cinema LS12000
4K PRO-UHD®[1] Laser Projector

3-Chip 3LCD with HDR10+[2] and UltraBlack™ Technology



Theater. Redefined.

4K PRO-UHD[1] — Advanced pixel-shifting technology works in parallel with three individual high-definition LCD chips to produce an exceptionally sharp 4K picture without sacrificing picture brightness

Precision Shift Glass Plate Technology — Unique digitally controlled Precision Shift Glass Plate precisely refracts pixel light to display a 3840 x 2160, 8.29-million-pixel image for an exceptionally sharp and clear 4K picture

Epson® ZX Picture Processor — Our most advanced video processing technology to date, the proprietary 36-bit Epson ZX Picture Processor handles real-time color, contrast, HDR[2], frame interpolation and resolution enhancement to faithfully reproduce the source material the way it was intended to be shown

Laser Array Light Source — True multi-array laser diodes produce an ideal light source to power the unique 3-Chip 3LCD Projector Engine for quick turn-on, incredible picture brightness, black contrast and color accuracy

High Picture Brightness — Impressive 2,700 lumens of color and 2,700 lumens of white brightness[3] for an exceptional picture in virtually any theater environment – even in rooms with ambient light

True 3-Chip 3LCD Projector Engine — Advanced 3LCD technology uses three individual LCD chips to continuously display 100% of the RGB color signal for every frame. This allows for outstanding color gamut while maintaining excellent brightness without any rainbowing or color brightness issues seen with other projection technologies

Impressive HDR — Full 10-bit HDR[2] color processing accepting 100% of the HDR source information to faithfully reproduce HDR, HDR10+ and HLG (Hybrid Log Gamma) content for an exceptional visual performance. Real-time HDR curve adjustment allows for 16 steps of control to fine-tune the HDR performance regardless of the content

120 Hz Refresh Rate — Refresh rates up to 120 Hz allow for smoother motion for supported content while providing the option for impressive Frame Interpolation for content below 120 Hz

1 4K Resolution Enhancement Technology shifts each pixel to produce an image on screen, up to the stated specification.

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Pro Cinema LS12000 4K PRO-UHD®[1] Laser Projector

3-Chip 3LCD Laser Projector with HDR10+[2] and UltraBlack™ Technology

Specifications

Projection System Epson 3LCD
Chip Design (Architecture) 3-Chip
Light Source True Laser Diode Array
Projection Method Front, Front-Ceiling, Rear, Rear-Ceiling
Product Color Black
Driving Method Poly-silicon TFT Active Matrix, 0.74"-wide panel, 12-bit
Output Resolution 4K PRO-UHD[1] 3840 x 2160 (dual-axis: 1920 x 1080)
Maximum Input Resolution 4096 x 2160
Maximum Refresh Rate 120 Hz
Supported Resolutions 4K 2160p, 2K Full HD 1080p/i, HD 720p, 576p/i, 480p/i
Native Aspect Ratio 16:9 widescreen
Resize Aspect Ratio Support 1.9:1 (4096 x 2160), 21:9 (2560 x 1080), 4:3 (1600 x 1200), 9:6 (720 x 480), 5:4 (720 x 576); compatible with Normal, Full or Zoom Modes
Color Brightness[3] Color Light Output: 2,700 lumens
White Brightness[3] White Light Output: 2,700 lumens
Contrast Ratio Up to and over 2,500,000:1, Auto Iris on
White Balance 14-point temperature adjustment
Color Reproduction Full-color (up to 1.07 billion colors)
Size (Projected Distance) 50" to 300" (at 58" to 62'4")
Keystone Correction Vertical/Horizontal: ± 30 degrees
HDR Color Processing Full 10-bit
Epson ZX Picture Processor Full 12-bit
Light Source Life[5]
Normal Mode: Up to 20,000 hours
Medium Mode: Up to 20,000 hours
Eco Mode: Up to 20,000 hours

Projection Lens

Epson VRX Lens 15-element precision glass structure (AGS)
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

Interfaces

2x HDMI® 2.1 (HDCP 2.3); one supporting eARC/ARC
1x USB Type-A (for optical HDMI cable, 300 mA maximum power supply only)
1x USB Type-A 5 V, 2.0 A for power and firmware
1x Mini USB (service only)
1x LAN RJ45
1x RS-232c
1x Trigger out (On, Off) 12 V DC, 200 mA maximum



Other Features

Dynamic Range Support HDR10[2], HDR10+[2], HLG
HDR[2] Adjustment 16 steps, real-time
Color Modes Dynamic, Vivid, Bright Cinema, Cinema, Natural, B&W Cinema
Aspect Adjustment Yes (Auto/Full/Zoom/Anamorphic Wide/Horizontal Squeeze)
Anamorphic Lens Option Compatible with third party; Anamorphic Lens Kit sold separately
Frame Interpolation Input up to 4K at 60 Hz, output up to 4K at 120 Hz
eARC Audio Compatibility LPCM, supports Dolby® Digital AC-3, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS, DTS-HD, DTS-HD High Resolution Audio, Master Audio, DTS:X, AAC
ARC Audio Compatibility LPCM, Dolby Digital (AC-3), DTS, AAC
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
Normal Mode: 311 W
Medium Mode: 243 W
Eco Mode: 204 W
Fan Noise 22 – 30 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)

Projector, including feet (excluding cable cover)
20.5" x 17.6" x 7.6"
Weight: 28.0 lb
Packaging: 27.8" x 21.9" x 16.0"
Weight: 50.8 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: 0 + 60 degrees

Support

Epson Connection℠
Pre-sales support: U.S: 800-463-7766, Canada: 800-807-7766
Website: U.S: www.epson.com, Canada: www.epson.ca
Service Programs 3-year projector limited warranty, Extra Care℠ Home Service program, PrivateLine® dedicated toll-free support (U.S. and Canada only)

What's in the Box

Pro Cinema LS12000 projector, ceiling mount, cable cover, power cord, remote control with (2) AA batteries, Quick Setup Guide

Eco Features

RoHS compliant
Recyclable product[6]
Epson America, Inc. is a SmartWay® Transport Partner[7]

Ordering Information

Pro Cinema LS12000	V11HA47020MB
Replacement Air Filter ELPAF62	V13H134AB0

Resolution	Refresh Rate (Hz)	YCbCr								
		4:2:0			4:2:2			4:4:4		
		8	10	12	8	10	12	8	10	12
3840 x 2160	30	Signal does not exist			SDR	HDR*	HDR*	SDR	HDR*	HDR*
3840 x 2160	60	SDR	HDR*	HDR*	SDR	HDR*	HDR*	SDR	HDR*	HDR*
3840 x 2160	120	SDR	SDR	-	SDR	HDR*	HDR*	SDR	-	-