

Epson QB1000 4K HDR 3,300 Lumen 3LCD Laser Projector

Projectors

4K DISPLAY TECHNOLOGY



Reimagine Projection.

Stunning 4K Picture Quality – Advanced 4K display technology¹ works in parallel with three individual high-definition LCD chips to display a full 8.29 million pixels on-screen for an exceptionally sharp 4K UHD picture without sacrificing picture brightness

High Picture Brightness – Impressive 3,300 lumens of color brightness (IDMS-rated) and 3,300 lumens of white brightness² (ISO-rated) for an exceptional picture in virtually any theater environment – even in rooms with ambient light

3-Chip 3LCD Projector Engine – Unique 3LCD technology uses three individual LCD chips to continuously display 100% of the RGB color signal for every frame. This allows for an 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 color processing accepts 100% of the HDR source information to faithfully reproduce HDR, HDR10+³ and HLG (Hybrid Log Gamma) content for an exceptional visual performance. Dynamic tone mapping automatically adjusts to the optimal HDR level according to the scene

Epson QZX Picture Processor – Our most powerful video processing technology to date, the proprietary 32-bit Epson QZX Picture Processor handles real-time color, dynamic contrast, HDR, frame interpolation, dynamic tone mapping and resolution super-sampling to faithfully reproduce the source material the way the director intended

Laser-Array Light Source – True multi-array laser diodes produce an ideal light source to power the unique 3-chip 3LCD projector engine for incredible picture brightness, black contrast and color accuracy

UltraBlack™ Technology – Taking full advantage of the laser-array light source, Epson created a proprietary compensation filter that controls the polarization of light itself. This allows Epson to suppress any stray light within the signal to dramatically enhance the overall black density and picture contrast while producing a Dynamic Contrast Ratio exceeding 5,000,000:1



UltraBlack

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 Display Technology¹, 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), 3:2 (720 x 480), 5:4 (720 x 576); compatible with Normal, Full or Zoom Modes
Color Brightness² Color Light Output: 3,300 lumens (IDMS Rated)
White Brightness² White Light Output: 3,300 lumens (ISO Rated)
Contrast Ratio Up to and over 5,000,000:1, with Dynamic Contrast in Normal or High Speed setting
White Balance 13-point temperature adjustment
Color Reproduction Full-color (up to 1.07 billion colors)
Size (Projected Distance) 50" to 300" (at 58" to 62.4")
HDR Color Processing Full 10-bit
Epson QZX Picture Processor Full 12-bit
Light Source Life⁴
 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)
Keystone Correction Vertical/Horizontal: ± 30 degrees
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 (control only)
 1x RS-232C (DB-9)
 1x Trigger Out (On, Off, Anamorphic Wide) 12 V DC, 200 mA maximum (3.5 mm mono or stereo mini-jack)



Other Features

Dynamic Range Support HDR10³, HLG
HDR Adjustment 16 steps, real-time; Automatic Dynamic Tone Mapping
Color Modes Dynamic, Vivid, Cinema, Natural
Aspect Adjustment Yes (Auto/Full/Zoom/Anamorphic Wide/Horizontal Squeeze)
Anamorphic Lens Option Compatible with third-party options; 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
Web Control Projector setup and control via web browser
Operating Temperature 41° to 95° F (5° to 35° C)
Smart Home Control PJLink®, Control4® and Crestron® Support
Power Supply Voltage 100 – 240 VAC ± 10%, 50/60 Hz
Power Consumption
 Normal Mode: 341 W
 Medium Mode: 301 W
 Eco Mode: 206 W
Fan Noise 22 – 32 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: 28.2 lb
 Packaging: 27.25" x 21.75" x 10.5"
 Weight: 49.8 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 ConnectionSM
 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 CareSM Home Service program, PrivateLineSM dedicated toll-free support (U.S. and Canada only)
Limited Warranty 3-year limited warranty in U.S. and Canada

What's in the Box

QB1000 projector, cable cover, power cord, remote control with (2) AA batteries, Quick Setup Guide

Eco Features

RoHS compliant
 End-of-life options available⁵
 Epson America, Inc. is a SmartWay® Transport Partner⁶

Ordering Information

QB1000B Black	V11HB23120
QB1000W White	V11HB23020
Replacement Air Filter ELPAF62	V13H134AB0
Ceiling Mount (Black)	CHF4500
Ceiling Mount (White)	CHF4000

Resolution	Refresh Rate (Hz)	Color Space (YCbCr)								
		4:2:0			4:2:2			4:4:4		
		8-bit	10-bit	12-bit	8-bit	10-bit	12-bit	8-bit	10-bit	12-bit
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	HDR*	HDR*	SDR	HDR*	HDR*	SDR	HDR*	-

* HDR: Support for HDR10, HDR10+ and HLG. For more information, visit epson.com/hdrcompatibility

1 4K resolution enhancement technology shifts each pixel to produce an image on screen, up to the stated specification. | 2 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. | 3 HDR performance available with select third-party devices. For more information, see www.epson.com/hdrcompatibility | 4 No required maintenance for the light source for up to 20,000 hours. Approximate time until brightness decreases 50% from first usage. Measured by acceleration test assuming use of 0.04 - 0.20 mg/m3 of particulate matter. Time varies depending on usage conditions and environment. Replacement of parts other than the light source may be required in a shorter period. | 5 For convenient and reasonable recycling options, visit www.epson.com/recycle | 6 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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