

# HP SB21 / SB31 Digital Projector



## specifications

### Great mobility

- lightweight with the smallest of footprints
  - xb 31: 3.5 pounds
  - sb 21: 2.2 pounds

### Unsurpassed image quality and brightness

- no surprises imaging™
- TI DLP light engine for the brightest, highest-contrast image possible
  - xb 31: 1500 comparable lumens
  - sb 21: 1000 comparable lumens
- 1800:1 contrast ratio for deep blacks and rich, full colors
- true XGA resolution
  - xb 31: 1024 by 768 full screen
- true SVGA resolution
  - sb 21: 800 by 600 full screen
- automatic detection of computer signal input
- automatic image synchronization
- tracking, frequency, and position adjustment
- self-protect timer for hot re-strike of compact P-VIP lamp

### Easy to use

- wireless remote controller with USB mouse function and laser pointer
- optical and digital zoom
- automatic image re-sizing
  - xb 31: 1024 by 768 full screen
  - sb 21: 800 by 600 full screen
- enlarge and freeze function
- automatically saves adjustments for future use
- built-in two-watt speaker (xb 31)
- on-screen menu with nine languages
- high efficiency cooling system with low acoustic noise level
  - advanced air flow with three fans (xb31)
  - viewer friendly airflow—hot air blows out of the front, away from the conference table
  - maximum touch temperature follows UL1950 regulation
  - temperature control circuits with adaptive voltage control fan speed (xb 31)

### Universal connectivity

- built-in full-screen NTSC/PAL/SECAM video compatibility with the following terminals:
  - S-video
  - composite
  - component
  - HDTV

- XGA/SVGA/VGA/MAC compatibility

	<b>sb21 (L1510A)</b>	<b>xb31 (L1511A)</b>
projection system	single-panel 0.55 in 12° DDR DMD XGA (TI DLP)	single-panel 0.7 in 12° DDR DMD XGA (TI DLP)
brightness	1000 comparable lumens	1500 comparable lumens
resolution	true SVGA 800 x 600 resolution; 16.7 million colors	true XGA 1024 x 768 resolution; 16.7 million colors
contrast	1800:1 (full black and white)	1800:1 (full black and white)
color	7100° K (default)	7100° K (default)
uniformity	<ul style="list-style-type: none"> <li>• 85% peak (Japan standard)</li> <li>• 75% typical (Japan standard)</li> <li>• 65% minimum (Japan standard)</li> </ul>	<ul style="list-style-type: none"> <li>• 85% peak (Japan standard)</li> <li>• 75% typical (Japan standard)</li> <li>• 65% minimum (Japan standard)</li> </ul>
projection	<ul style="list-style-type: none"> <li>• F/2.4</li> <li>• f=21.9 mm with fixed focal lens</li> <li>• image size adjustable from 25 to 300 inches (diagonal)</li> </ul>	<ul style="list-style-type: none"> <li>• F/2.44~2.69</li> <li>• f=28.8~34.5 mm with 1.2x manual zoom lens</li> <li>• image size adjustable from 28 to 295.3 inches (diagonal)</li> </ul>
throw distance	3.3 to 39.4 feet (1.0 to 12 m)	3.7 to 39.4 feet (1.14 to 12 m)
lens	digital zoom; manual focus	optical zoom; manual focus
video compatibility	<ul style="list-style-type: none"> <li>• NTSC: M (3.58 MHz), 4.43 MHz</li> <li>• PAL: B, D, G, H, I, M, N</li> <li>• SECAM: B, D, G, K, K1, L</li> <li>• HDTV: 480i, 480P, 720P, 108i</li> </ul>	<ul style="list-style-type: none"> <li>• NTSC: M (3.58 MHz), 4.43 MHz</li> <li>• PAL: B, D, G, H, I, M, N</li> <li>• SECAM: B, D, G, K, K1, L</li> <li>• HDTV: 480i, 480P, 720P, 108i</li> </ul>
computer compatibility	XGA, SVGA, VGA, MAC	XGA, SVGA, VGA, MAC
audio	n/a	built-in 2-watt speaker
acoustic noise	<ul style="list-style-type: none"> <li>• 32 dBA peak under 25° C</li> <li>• 35 dBA typical under 25° C</li> <li>• 39 dBA maximum under 40° C</li> </ul>	<ul style="list-style-type: none"> <li>• 32 dBA peak under 25° C</li> <li>• 35 dBA typical under 25° C</li> <li>• 39 dBA maximum under 40° C</li> </ul>
lamp	150-watt compact P-VIP lamp (user replaceable); 20+ months estimated lamp life with typical usage	150-watt compact P-VIP lamp (user replaceable); 20+ months estimated lamp life with typical usage
power supply	Universal AC 100-240V, 50/60	Universal AC 100-240V, 50/60

product certification	FCC Part 15, Class B; CE-Class B; VCC Class B; BSMI; UL; CUL; TÜV-GS	FCC Part 15, Class B; CE-Class B; VCC Class B; BSMI; UL; CUL; TÜV-GS
environmental range	<ul style="list-style-type: none"> <li>• operating: 50 to 104° F (10 to 40° C)</li> <li>• storage: 4 to 140° F (-20 to 60° C)</li> </ul>	<ul style="list-style-type: none"> <li>• operating: 50 to 104° F (10 to 40° C)</li> <li>• storage: 4 to 140° F (-20 to 60° C)</li> </ul>
dimensions (W x D x H)	7.9 x 5.55 x 2.3 inches (200.7 x 141 x 60.38 mm)	8.92 x 7.23 x 2.67 inches (226.5 x 183.6 x 67.75 mm)

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This product is available in South Africa at <http://www.LaptopDirect.co.za>