



BenQ Digital Projector

SP870/831 Specifications

	SP870	SP831
Projection System	0.55" DLP technology by Texas Instruments	0.55" DLP technology by Texas Instruments
Native Resolution	XGA (1024 x 768)	WXGA (1280 x 768)
Brightness	5000 ANSI lumens	4000 ANSI lumens
Contrast Ratio	2000:1 (Full on/Full off)	2000:1 (Full on/Full off)
Aspect Ratio	4:3 Native, 16:9 Selectable	16:9 Native
Color	7-bit 1.1 billion color palette	7-bit 1.1 billion color palette
Lens	F2.4-3.7, f=38.87-46.6mm	F2.4-3.7, f=38.87-46.6mm
Zoom Ratio	Manual Zoom, 1.15:1	Manual Zoom, 1.18:1
Image Size (Diagonal)	49" to 300"	23" to 300"
Throw Ratio	0.67 (2M) (40" @ 6.6 feet)	0.67 (2M) (40" @ 6.6 feet)
Keystone Adjustment	Vertical: ±2.5 degrees	Vertical: ±2.5 degrees, Horizontal: ±30degrees
Color Wheel	8 segments, RYGB, Speed (1X, 2X)	7 segments, RYGB, Speed (1X, 2X)
Keystone Adjustment	Vertical: ±2.5 degrees	Vertical: ±2.5 degrees, Horizontal: ±30degrees
Resolution Support	360p, 720p, 1080i (Normal/Economic mode)	360p, 720p, 1080i (Normal/Economic mode)
Computer Compatibility	VGA (640 x 480) to XGA (1280 x 1024)	VGA (640 x 480) to WXGA (1280 x 800)
HDTV Compatibility	480i, 480p, 720i, 720p, 1080i	480i, 480p, 720i, 720p, 1080i
Video Compatibility	NTSC, PAL, SECAM	NTSC, PAL, SECAM
Horizontal Frequency	31-53 Hz	24-83 Hz
Vertical Scan Rate	50/60 Hz	50/60 Hz
Input Terminals	PC: Analog RGB-D (sub) 15 pin x 1 Composite Video RCA x 1 S-Video Mini Din 8 pin x 1 Component Video RCA x 1 DVI-D (HDCP support) x 1	PC: Analog RGB-D (sub) 15 pin x 1 Composite Video RCA x 1 S-Video Mini Din 8 pin x 1 Component Video RCA x 1 DVI-D (HDCP support) x 1
Output Terminal	Audio: Stereo Mini Jack x 1 3 Watt Speaker x 1	Audio: Stereo Mini Jack x 1, RCA set x 3 Analog RGB-D (sub) 15 pin x 1 L/R Audio RCA set x 1 2 Watt Speaker x 2
Control Terminal	Serial Connector: RS232 9 pin MINI DIN USB Connector: USB x 1 (Type mini B) Wireless Remote Jack x 1	Serial Connector: RS232 9 pin MINI DIN USB Connector: USB x 1 (Type mini B) Wireless Remote Jack x 1
Dimensions (WxHxD)	373 x 113 x 277mm (14.8 x 4.5 x 10.9 inch)	373 x 113 x 277mm (14.8 x 4.5 x 11.1 inch)
Weight	4.5kg (10.1 lbs)	4.5kg (10.1 lbs)
Power Supply	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz
Power Consumption	Max 150W	Max 150W
Audio Power	30 Watts (Normal/Economic mode)	30 Watts (Normal/Economic mode)
On-Screen Display Languages	English/French/German/Italian/Spanish/Russian/Traditional Chinese/Simplified Chinese/Japanese/Korean/Swedish/Dutch/Turkish/Czech/Portuguese/Thai/Polish	English/French/German/Italian/Spanish/Russian/Traditional Chinese/Simplified Chinese/Japanese/Korean/Swedish/Dutch/Turkish/Czech/Portuguese/Thai/Polish
Picture Modes	PC Input Dynamic Mode Presentation Mode Standard Mode Cinema Mode User 1/User 2 Mode	PC Input Dynamic Mode Presentation Mode Standard Mode Cinema Mode Blackboard Mode User 1/User 2 / User 3 Mode
Functions	3D Color Management Quick Point Search Timer Controller Presentation Timer Power On/Off Ring Tone Panel Key Lock Resolution Remover 11 Sets of Picture Mode "Q" Hot Key for FAK Lens Cap	BrilliantColor™ Split Screen HDTV Independent Color Management Office Cooling 3 User Mode Auto Off Password Function MP Screen HDTV Compatible
Accessories (Standard)	User's Manual Quick Start Guide Manual CD VGA Cable PWS Cord	User's Manual Quick Start Guide Manual CD VGA Cable PWS Cord
Accessories (Optional)	Ceiling Mounting Kit Presentation Pin	Ceiling Mounting Kit Presentation Pin Square Lamp Kit

SP870 Projection Size (Max. Zoom)

Distance (m)	1	1.5	2	2.5	3	3.5	4	4.5	5
4:3 aspect ratio screen size (inch)	50	75	100	125	150	175	200	225	250
16:9 aspect ratio screen size (inch)	22.6	33.9	45.2	56.5	67.8	79.1	90.4	101.7	113.0

SP831 Projection Size (Max. Zoom)

Distance (m)	1	1.5	2	2.5	3	3.5	4	4.5	5
4:3 aspect ratio screen size (inch)	50	75	100	125	150	175	200	225	250
16:9 aspect ratio screen size (inch)	24.8	37.2	49.6	62.0	74.4	86.8	99.2	111.6	124.0

Accessories (Optional)



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Keep the lights on during the presentation.



The BenQ High Brightness Projector Series

BenQ
Enjoyment Matters



Introducing the BenQ high brightness projectors - SP870/831!

Get ready for the technological era of "lights-on" presentations with BenQ. BenQ gives you the true brightness upgrade you need for your company, your classroom, even your auditorium. Now you can carry out your presentations indoors with the lights on or outdoors under ambient light to make connecting with your audience ever so easy. BenQ's high brightness projector series - SP870/SP831 - comes with 5000/4000 ANSI lumens, 2000:1 high contrast and is built in multi-segment color wheels with exclusive color display technology. The SP870/831 vivify all your images whether you're doing a presentation or watching a film. With XGA/WXGA resolution, even darkened images will be treated with the proper clarity refinement. All in all, we are dedicated to ensuring you the best projection quality by having you keep your lights on.



Enjoy the perfect projection with the BenQ high brightness projectors.

The BenQ SP870/831 keep the lights on in all your presentations.

Enjoy the brightest and clearest projection performance in every room, every time! The lumens generated by the BenQ high brightness projectors - the SP870 which comes with 5000 ANSI lumens and the SP831 which comes with 4000 ANSI lumens - is so bright, it's more than enough to highlight your presentations! Both light and compact with high contrast ratio of 2000:1, the multi-benefit SP870/831 will keep the lights on in all your business meetings!

Other Brand

Interactivity is the key to successful presentations. Keep the lights on! Interact with your audience and enjoy the participation!

Note-taking is made easy. Taking notes in the dark is not an easy thing to do. Keep the light on! Make sure all your important messages are delivered and written down!

There's no more switching on or off! No one needs to get the light anymore! Now you can keep your future meetings nice and bright and keep your finger off the light switch.

BenQ High Brightness Projector

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Get the best visual experience with the best high brightness projectors.

SP870

5,000 ANSI Lumens | Contrast 20000:1 | 3D Color Management | XGA 1024x768 | Video Control | Lamp Care | BrilliantColor™

BrilliantColor™ Brings the Colors of the World to Life
The SP870 gives you the truest, liveliest color ever with BenQ's unique golden ratio multi-segment color wheel. Made in collaboration with the advanced BrilliantColor™ technology from Texas Instruments, mid-tone colors are boosted to heighten brightness levels, making images more precisely rendered than ever.

Better Color Management for Better Personal Viewing
The SP870's built-in 3D Color management technology ensures you with the independent control of six colors' (R/G/B/C/M/Y) hue, gain, and saturation levels. Now, you can adjust the color intensity for your own enjoyment.

Multi-Function Interface

A: IR sensor | B: Wire remote | C: RS-232 | D: USB (mini B type) for page updates
E: DVI-D input (HDCP support) | F: D-sub input analog RGB/Component
G: 12V trigger | H: D-sub output | I: Component in Y/Pb/Cb/Pr/Cr
Basic video input: composite/S-video | Audio input

SP831

4,000 ANSI Lumens | WXGA 1280x768 | Contrast 20000:1 | Split Screen | HDTV | BrilliantColor™

BrilliantColor™
The revolutionary BrilliantColor™ enables higher brightness levels by boosting mid-tone colors, guaranteeing presentations to be more vibrant and precisely rendered.

HQV
An enormous leap has been taken in fine-tuning the Chroma & Luma Transition Enhancement, Noise Reduction and Detail Enhancement! The SP831 - built with the HQV technology - now takes projection to a brand new level!

Split Screen
With a simple touch of a button, there's no fumbling around to show two presentation files simultaneously and clearly.

Multi-Function Interface

A: IR sensor | B: Audio input | C: Wire remote control | D: Video | E: Component
F: S-video | G: Signal shuttle | H: DVI-D (HDCP support) | I: D-sub input | J: D-sub output