SmartEco: Outstanding image quality and maximum energy savings

New technology for BenQ projectors

BenQ, world's foremost manufacturer of DLP® projectors, demonstrates its technological edge once again. The new BenQ projectors now display even brighter images for even longer and use up to 50% less energy. This has been made possible by new ImageCare technology from Philips, which is making its debut in the DLP sector with BenQ. This technology improves the core element of the projector: the lamp. Lamp life can be increased by up to 70% at full light intensity – which could be of particular interest in office environments and schools where projector brightness and energy efficiency are particularly critical.

Impressive Brightness

SmartEco's technological breakthrough lies in the energy-efficient switching of the lamp system to different brightness settings. An internal software solution compensates for this process by retaining an optimum colour spectrum whilst also providing improved contrast. Through this revolutionary technology the lamp always adjusts itself optimally and generates just as much light as necessary. If, for example, predominantly darker content is being projected, the lamp dims accordingly without causing any loss to optical brightness for the viewer. Thanks to SmartEco images are presented clearly and precisely with maximum light intensity. In rooms such as classrooms and conference rooms lit by natural light the projector supplies the optimum luminous output.

Longer Lamp Life

SmartEco technology not only provides outstanding image quality with maximum energy savings, it also prolongs lamp life – which can be increased by up to 70% in comparison to existing lamps. This results in lower operating costs and less maintenance: an important advantage – particularly in high-use business and school environments.

High Energy Efficiency

This technology only consumes as much energy as required for optimal contrast. Valuable power can also be saved with the Eco Blank function. When giving a presentation, in a classroom for example, the presenter or teacher can press a button to switch the projector to blank mode to gain the attention of the audience before switching it back to its normal brightness to continue with the talk.

Energy Consumption for a Projector Lamp System on an Average Chinese School Day			
Usage Profile	Mins on Avg. Day	No ImageCare	ImageCare
OFF	354		
ON – Searching for Inputs/Standard Projection Screen	0	100%	75%
ON – Other Content – Actively Used	49	100%	100%
ON – Other Content – Same Image for 5 Minutes	20	100%	30%
ON – Full Screen Film	4	100%	65%
ON – Full Screen Photo	1	100%	65%
ON – Full Screen Photo – Same Image for 5 Minutes	2	100%	65%
On – Content Off	7	100%	30%
Average Energy Consumption		100%	74%

*To learn more, please visit www.lighting.philips.com/main/application_areas/projection

Without SmartEco | With SmartEco

An improved contrast ratio and maximum light intensity ensure images are displayed to perfection.
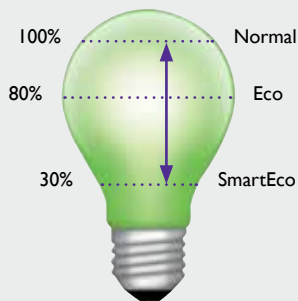

Full Power On | Eco Blank Mode On

The Eco Blank mode allows teachers to blank the projection screen whenever they need to direct their students' focus back on them.
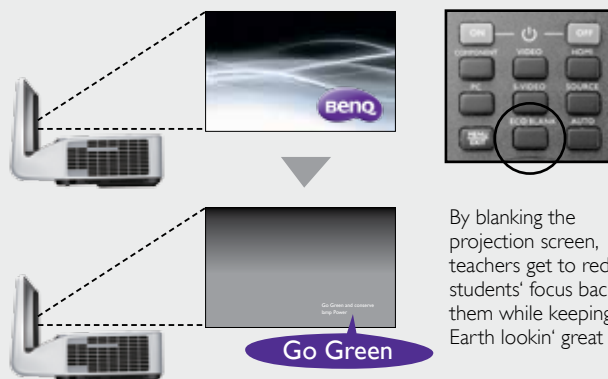
SmartEco Series Tips

Lamp Power - Save up to 70%
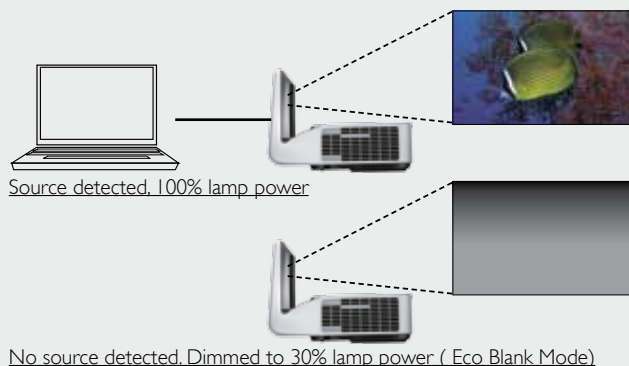
100% — Normal
80% — Eco
30% — SmartEco

SmartEco lets the projector automatically adjust lamp power based on input content. SmartEco cleverly adjusts the lamp power to maximize power saving by delivering the best contrast and brightness performance.

Eco Blank - Blank the screen and conserve lamp power by up to 70% when the projector is not actively in use

Go Green

By blanking the projection screen, teachers get to redirect students' focus back on them while keeping the Earth lookin' great

30% Lamp Power when No Signal Detected

Activate Eco Blank Mode after projector has remained unconnected to a display source for 3 mins to lower the projector brightness to 30%

Source detected, 100% lamp power

No source detected. Dimmed to 30% lamp power (Eco Blank Mode)

Go Green

Switch to SmartEco mode by pressing the hotkey on the remote

Eco Blank allows teachers to redirect students' focus

SmartEco
Projectors come with SmartEco mode as the default setting.
In case it has been changed to a different mode, it only requires one touch on the remote to continue your energy saving.

Eco Blank
When the projector is not actively in use you can easily blank the screen and conserve lamp power by up to 70%

No signal, no spill
When the projector detects no signal, it automatically switches back to using only 30% lamp power.

SmartEco Series Line Up

MW851UST
- WXGA (1280 x 800)
- 2500 Lumens, 13000:1 Contrast Ratio
- 0.36 Throw Ratio, HDMI
- LAN Control, SmartEco Mode
- Long Lamp Life, Instant Restart

MX850UST
- XGA (1024 x 768)
- 2500 Lumens, 13000:1 Contrast Ratio
- 0.45 Throw Ratio, HDMI
- LAN Control, SmartEco Mode
- Long Lamp Life, Instant Restart

MX813ST
- XGA (1024 x 768)
- 2700 Lumens, 10000:1 Contrast Ratio
- 0.6 Throw Ratio, HDMI
- LAN Control, SmartEco Mode
- Long Lamp Life, Instant Restart

MW712
- WXGA (1280 x 800)
- 3200 Lumens, 10000:1 Contrast Ratio
- 10W Speaker, HDMI
- LAN Control, SmartEco Mode
- Long Lamp Life, Instant Restart

MX716
- XGA (1024 x 768)
- 3500 Lumens, 13000:1 Contrast Ratio
- 10W Speaker, HDMI
- LAN Control, SmartEco Mode
- Long Lamp Life

MW516
- WXGA (1280 x 800)
- 2800 Lumens, 10000:1 Contrast Ratio
- 2W Speaker, HDMI
- Instant Restart, SmartEco Mode
- Long Lamp Life

MX514
- XGA (1024 x 768)
- 2700 Lumens, 10000:1 Contrast Ratio
- 2W Speaker, HDMI
- Instant Restart, SmartEco Mode
- Long Lamp Life

MS513
- SVGA (800 x 600)
- 2700 Lumens, 10000:1 Contrast Ratio
- 2W Speaker, HDMI
- Instant Restart, SmartEco Mode
- Long Lamp Life

Touchboards

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BenQ
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