

For Immediate Release

7 January, 2010

Equipped with Laser & LED Hybrid Light Source

## World First High-Brightness projector without mercury

Casio Computer Co., Ltd., announced today that the development of Laser & LED Hybrid Light Source for the next generation of projectors was succeeded under the concept of “Clear and Green”, and “Green Slim Projector“ equipped with this new Laser & LED Hybrid Light Source to realize world first\* mercury free high-brightness projector are launched.

\* In comparison to commercially available data projectors with 2000 ANSI lumens or more as of January 7, 2010, according to a Casio survey

Nowadays, over 2000 ANSI lumens projectors are worked by high pressure mercury lamp.

As substitution light source device, LED or Laser without detrimental mercury are highly promised for next generation of projectors.

However, high-brightness green light by LED or Laser is not produced in large quantities yet, both LED and Laser are just used for small sized projectors with dim brightness.

In this time, CASIO successfully developed an original new semiconductor light source technology combining a Red by red LED, Blue by a blue laser and Green converted by phosphor from a blue laser. This source achieves high luminance over 2000 ANSI lumens safely by employing a phosphor device to modify the wavelengths and phases of blue laser light through DLP® system.

“Green Slim Projector” equipped with this Laser & LED Hybrid Light Source realize high brightness from 2,000 to 3,000 ANSI lumens without mercury lamp as the world first new generation projector.

It measures just thickness 43 mm and 2.3 kg in an A4-size, provide enhanced colour reproduction for higher-impact presentations.

In terms of usability, Green Slim drastically enhanced basic features: 8 seconds quick startup, immediate shutdown and 20,000 hours long life light source.

As line up assortment, WXGA models to realize display resolution real 1280 x 800, models that have USB for PC-less presentation and wireless communication with PC will be also available.

Advanced Laser & LED Hybrid Light Source shall change common sense in projector industry thoroughly expanding the possibility of visual communications.

- High brightness, Superior image quality, long life light source, quick ON/OFF by Laser & LED Hybrid Light Source without mercury lamp
- Mobile configuration by Slim design (thickness 43mm), light weight (2.3kg) in A4-size
- Wide-angle 2x zoom to provide positioning freedom in small meeting rooms to large classrooms
- USB capability to realize PC-free presentation and wireless communication with PC  
(XJ-A255/A245/A155/A145/A135 )

Model	Display resolution	Brightness	USB Host Function Wireless compatibility
XJ-A255	WXGA Real (1,280×800)	3000 ANSI lumens	XJ-A255 only
XJ-A250			
XJ-A245		2500 ANSI lumens	XJ-A245 only
XJ-A240			
XJ-A155	XGA Real (1,024×768)	3000 ANSI lumens	XJ-A155 only
XJ-A150			
XJ-A145		2500 ANSI lumens	XJ-A145 only
XJ-A140			
XJ-A135		2000 ANSI lumens	XJ-A135 only
XJ-A130			

CASIO will develop smaller size projectors aggressively targeting consumer market based on new Laser & LED Hybrid Light Source to increase line ups from now on.

《Main features of GREEN SLIM PROJECTOR》

■Laser & LED Hybrid Light Source supporting high-brightness projection without mercury

CASIO developed a new semiconductor light source technology combining a red LED, phosphor and a blue laser. This source achieves high luminance safely by employing a phosphor device to modify the wavelengths and phases of blue laser light.

■CASIO's innovative mobile styling has resulted in an A4-size projector with high-brightness

It measures just 43 mm in thickness and 2.3 kg in weight equipped with Laser & LED Hybrid Light Source succeeded up to 3,000 ANSI lumens (XJ-A255/A250/A155/A150).

It slips neatly into a slim briefcase with documents and travels with you easily to make clear presentations even in a not dim room.

■Enhanced colour reproduction for higher-impact presentations

The dramatically enhanced colour purity achieved by our Laser & LED Hybrid Light Source technology results in superior colour reproducibility and brighter, more beautiful colouration. High-purity colour visual effects also generate brighter images, enabling you to present clear, powerful visuals.

■Long-life light source with reduced brightness degradation

Adopting a new semiconductor-based system has enabled CASIO to realize 10 times of longer light source life of approximately 20,000 hours. Compared with conventional high-brightness projectors employing mercury lamps (such as XJ-S58), this cuts the cost as well as the time and effort involved in exchanging lamps dramatically, while at the same time maintaining clear, high-quality images over an extended period by reducing the tendency toward degradation of the brightness.

■Quick startup/shutdown for presentation ease

The projector reaches its maximum brightness as quickly as 8 seconds after it's turned on, significantly shortening the time before you start your presentation. Since it doesn't need time to cool down afterwards, either, you can conduct your presentations cleanly and efficiently, from setting up to packing up.

■Wide-angle 2x zoom capability for positioning freedom

The wide-angle 2x zoom\* lens boosts magnification to the highest level among data projectors\*\*.

\* This zoom capability enables the projector to project optimally sized images from close to the screen or farther away as well as to correct screen distortions resulting from the projector's positioning automatically.

\*\*Source: As of 7 January 2010 CASIO investigation

■HDMI terminal

AV equipments or PC with HDMI output terminal can be connected to the projector with a single cable. This enables you to project high-definition images on a large screen while maintaining high image quality.

■WXGA Real projection (XJ-A255/A250/A245/A240)

The product lineup includes both 1,280 x 800 dot (16:10) WXGA Real models that realize high-density images benefiting fully from high resolution.

■Wireless capability (XJ-A255/A245/A155/A145/A135)

Wireless communication is possible with up to four Windows® PCs (IEEE 802.11b/g): The meeting with operating up to four PCs, presentation away from projector are possible at ease.

■USB terminal (XJ-A255/A245/A155/A145/A135)

To make presentations without a PC, simply save your presentation materials such as Excel, Word, PPT, PDF data\*, image (JPEG/BMP) and even movie (Motion JPEG/AVI format) in a USB memory device commercially available and project them directly from the projector (USB 2.0-compliant).

Meanwhile, CASIO's Multi-functional camera system YC400/430 can be connected directly to projectors.

\*File conversion by original software is necessary.

■Ceiling mount installation is possible

■Specifications

Model		XJ-A255	XJ-A250	XJ-A245	XJ-A240	XJ-A155	XJ-A150	XJ-A145	XJ-A140	XJ-A135	XJ-A130
Brightness*1		3000 ANSI lumens		2500 ANSI lumens		3000 ANSI lumens		2500 ANSI lumens		2000 ANSI lumens	
Contrast ratio		1800:1									
Estimated life of light source		Up to 20,000 hours									
Keystone correction		+30° (auto) ±30° (manual)									
Focusing		Manual power focus									
Projection lens		2x optical power zoom lens									
Projection screen size		18~300-inch				15~300-inch					
Projection range	60-inch screen	1.4m~2.8m				1.7m~3.4m					
	100-inch screen	2.4m~4.8m				2.8m~5.6m					
	Minimum range	0.84m				0.84m					
Projection system		DLP® system									
Display element		WXGA 0.65-inch DLP® chip 1,024,000 pixels (1,280×800)				XGA 0.55-inch DLP® chip 786,432 pixels (1,024×768)					
Color reproduction		Full color (16.77 million colors)									
RGB input	Display resolution	WXGA Real (1,280×800), Compressed: Maximum UXGA (1,600×1,200)				XGA Real (1,024×768), Compressed: Maximum UXGA (1,600×1,200)					
	Input terminal	RGB mini D-Sub 15 pin×1 (Also serves as YCbCr/YPbPr input terminal.)									

Digital input	Input terminal	HDMI Type A×1 (480P~1080P)									
Video input	Signal systems	NTSC/PAL/PAL-N/PAL-M/PAL60/SECAM									
	Input terminal	Composite: AV terminal (3.5mm mini-jack) (Also serves as audio terminal.) Component: Also serves as RGB mini D-Sub 15 pin.									
Audio	Input-output terminal	3.5mm mini-jack x 1 (Also serves as video input terminal.)									
	Speaker	1 W monaural									
Other terminals	USB (2.0-compliant)	TypeA×1	-	TypeA×1	-	TypeA×1	-	TypeA×1	-	TypeA×1	-
	Control terminal	RS-232C x 1 (Separately-sold YK-5 serial conversion cable required for connection.)									
Wireless compatibility		IEEE802.11b /g <sup>*2</sup>	-	IEEE802.11b /g <sup>*2</sup>	-	IEEE802.11b /g <sup>*2</sup>	-	IEEE802.11b /g <sup>*2</sup>	-	IEEE802.11b /g <sup>*2</sup>	-
Power source	AC100~240V, 50/60Hz										
Power consumption	Operating: 190W (Eco mode-on level 1) / Standby: 1W or less										
Dimensions (W×H×D)	297×43×210mm (including projections)										
Weight	2.3kg										
Remote control	Wireless remote controller										
Security compatibility	Kensington-compatible, Power-on password										
Other functions	Direct power-on/-off, Digital zoom (2x), Rear-projection, Freeze, Pointer, Color mode, Eco mode, Blank, Ceiling mount <sup>*3</sup>										
Included accessories	Wireless remote controller / AC power cord / RGB cable /Special AV cable / Instruction manual (on CD-ROM) / Quick reference / Warranty card / Soft case										

\*1 When Eco mode-off level 1.

\*2 A wireless module that attaches to a dedicated terminal inside the main unit is supplied.

\*3 Metal ceiling-mount fittings required. Installation work charged separately.

- DLP is registered trademark of Texas Instruments of the United States. Digital Light Processing is a trademark of Texas Instruments of the United States.
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**Please find more information on [www.casio-projectors.eu](http://www.casio-projectors.eu)**