CASIO
PROJECTORS

5 YEAR 10,000 HOUR WARRANTY

HD ready

MERCURY FREE LIGHT SOURCE

CONSTANT BRILLIANCE

THE ONLY PROJECTOR BRAND WITH A COMPLETE RANGE OF LAMP-FREE PROJECTORS

casio.co.uk/projectors

Key features and benefits

Discover the benefits of Casio lamp-free projectors

Casio's lamp-free projection range has a model suitable for almost every application including classrooms, boardrooms, exhibitions and retail. Here you can understand the true benefits of Casio's lamp-free technology and why Casio is the market leader for Solid-state projection:

Lamp-free
Casio projectors use Laser & LED Hybrid technology instead of lamps, not only improving environmental credentials but also reducing power consumption

Mercury-free
No mercury is featured in the projectors, making them safer for any user

Filter-free
These projectors have no lamps and do not require filters, which means there are no components to regularly change/ replace

Low power consumption
The Laser & LED Hybrid light source uses less power than a conventional projector lamp and also has quick on/off functions saving you time and money over the lifetime of the projector

Low maintenance
With no lamps to change and no filters to replace the Casio range requires only minimal maintenance. This reduces room downtime ensuring maximum productivity

Easy to install
The Casio A and M Series are the ideal replacement projectors as they have a wide lens ratio, meaning there is no need to move existing brackets/ mounts

Intelligent Brightness Control
All Casio projectors feature Intelligent Brightness Control that adjusts brightness levels according to the ambient light in the room which reduces power consumption whilst ensuring that the projector is always bright and vivid

Low TCO
When purchasing a Casio projector there is only one cost as there are no lamps or filters to change throughout the lifetime of the projector

Advanced connectivity
Casio projectors offer a host of different connectivity options and are all HD Ready

5 year warranty
All Casio projectors come with a 5 year/ 10,000 hour on-site warranty* on both hardware and light offering users total peace of mind

*Whichever comes first and upon registration.
Visit: www.casio.co.uk/projectors to register

Casio Projector Range

ALL EYES ON UST

Ultra Short Throw Projector

Ideal for both replacement and new-build projects

Casio's new lamp and mercury-free Ultra Short Throw projector can be mounted close to the wall and create large, powerful presentations even in smaller rooms.

The main benefit of Ultra Short Throw projection is that it virtually eliminates shadowing on the screen allowing for more creative and engaging presentations.

The Ultra Short Throw model offers brightness of 3,100 ANSI lumens – more than enough for even a large, bright classroom or meeting room and features WXGA resolution with XGA compatibility option.

- Lamp-free Laser & LED Hybrid Light Source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output
- 3,100 ANSI lumens
- WXGA resolution with XGA compatibility option
- Intelligent Brightness Control
- Free projector fleet management software available
- Extensive connectivity options, including HDMI, WLAN, USB

Models	ANSI lumens	Resolution	USB/WLAN
XJ-UT310WN	3,100	WXGA (16:10)	USB/WLAN

HD ready · WLAN · HDMI · ECO · USB · 5 YEAR WARRANTY · MERCURY FREE LIGHTSOURCE · INTELLIGENT BRIGHTNESS CONTROL · QUICK START&STOP · LASER & LED HYBRID · DLP 3D READY · CRESTRON CONNECTED

5 YEAR OR 10,000 HOUR WARRANTY

FREE bracket included

Green Slim Series

The ideal replacement projector

The Green Slim series uses the cost-effective, environmentally-friendly Casio Laser & LED Hybrid light source and is the perfect choice for those looking to upgrade their existing installed projectors. An industry-leading 2x optical zoom means that a Green Slim model will replace almost any installed projector seamlessly, without having to change the ceiling brackets. This helps to keep budgets under control and disruption to a minimum.

The Green Slim series offers brightness levels up to 3,000 ANSI lumens, more than enough for even a large, bright meeting room. All models have HDMI connectivity, enabling the presentation of HD content. They're light and portable, so can easily be moved between rooms if required.

- Lamp-free Laser & LED Hybrid light source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output
- Up to 3,000 ANSI lumens
- XGA and WXGA resolution
- 2x optical zoom
- Extensive connectivity options, including HDMI, LAN, WLAN and USB (selected models)
- Quick start and stop

Models	ANSI lumens	Resolution	USB/WLAN
XJ-A131	2,000	XGA (4:3)	–
XJ-A141 / XJ-A146	2,500	XGA (4:3)	XJ-A146 only
XJ-A241 / XJ-A246	2,500	WXGA (16:10)	XJ-A246 only
XJ-A251 / XJ-A256	3,000	WXGA (16:10)	XJ-A256 only

5 YEAR OR 10,000 HOUR WARRANTY

Case Study – Yates's

Bedford's top nightspot transforms its entertainment experience with Casio Green Slim projectors.

Yates's Bedford is a bar, nightclub and restaurant with a capacity of 500, making it one of the town's busiest nightspots.

Visitors are drawn to the pub's vibrant welcoming atmosphere and live televised sporting events. To provide the best-possible viewing experience of sports and music channels, Yates's Bedford had previously used four traditional lamp-based projectors, each areas hosting non-stop entertainment.

Gary Voysey is the General Manager of Yates's Bedford and has overall responsibility for providing his customers with a great pub experience. He takes up the story: ***"Our continued use of projectors in Yates's Bedford goes far beyond providing background entertainment. Regulars and visitors alike are nothing short of passionate about our screened events, so our ongoing schedule of live events is, and will continue to be, a key attraction."***

Gary asked sound and visual media provider PlayNetwork to suggest new, more cost-efficient and greener projector technologies — and that's where Casio comes in. Casio's XJ-A141 models, with Casio's own proprietary Laser & LED Hybrid technology, eliminate maintenance costs by using a solid-state lamp-free light source, providing a crisp, high quality image regardless of ambient lighting conditions.

"We are open from 10am till 3am each day, so the demands on our AV are intensive. Projectors are running all day, every day. We absolutely needed to install reliable, low-maintenance projectors that deliver crystal sharp images, day and night."

With the new Casio XJ-A141, no lamp changes are required and its Laser & LED Hybrid technology does not suffer from degradation in light power or image quality. The intense 2,500 lumen brightness of the Casio models will continue for its usable life. This also eliminates the need for Yates's Bedford to replace each projector's lamp every six months — a cost saving of around £200 each, plus an external call out charge. As a result, Gary will save around £2,000 per annum.

Installation of the projectors commenced in May 2011 and operating time has already surpassed 12,000 hours.

As with all of the Yates's chain, Yates's Bedford is keen to provide a safe operating atmosphere for both staff and public. Gary elaborates: *"The Casio Green Slim projectors are so easy to operate that we can now do the projector maintenance in-house. This is readily achieved with the Casio Green Slims as these projectors are filter-free and require minimal cleaning, and are also mercury-free."*

Eliminating mercury within each lamp is in line with the more open, greener, family pub environment Yates's Bedford encourages. In addition, the pub is driving down its carbon footprint; cutting electricity consumption by switching to alternative cleaner devices without affecting the customer experience.

The four Casio projectors are ceiling mounted, weigh-in at a lightweight 2Kg and have a discreet A4-sized footprint. Using the Casio Green Slims, the pub can be flexible about room layouts — Gary can elect to project directly onto walls, or on to a pull-down screen.

Gary summarises the Casio Laser & LED Hybrid projector experience: *"It has been a total win-win, in fact the difference between the old projectors and the new Casio models has been like going from black and white television to colour. From a visitor point of view, the Casio projectors have provided total 'wow' feedback, with no haze, and crystal-clear images. From a management perspective, they've been brilliant: they've driven down costs and power consumption and reduced maintenance time."*

"From a visitor point of view, the Casio projectors have provided total 'wow' feedback, with no haze, and crystal-clear images. From a management perspective, they've been brilliant: they've driven down costs and power consumption and reduced maintenance time."

For more information on Casio projectors visit **www.casio.co.uk/projectors** or call **020 8450 9131**

Signature Series

A versatile range of projectors for classrooms and meeting rooms

The Signature series offers versatile projection solutions using the cost-effective, environmentally-friendly Casio Laser & LED Hybrid light source. Thanks to Intelligent Brightness Control, the light output is automatically adjusted according to the levels of ambient light. This minimises power consumption – and running costs – by ensuring that the brightness delivered is no more than actually required. The projectors also deliver all of the key benefits associated with the unique Casio Laser & LED Hybrid light source: excellent colour performance with no deterioration of brightness, a 20,000 hour life expectancy, quick start & stop, and the elimination of expensive replacement lamps. The nine models in the Signature series offer a range of connectivity options, including RGB, HDMI, LAN, WLAN & USB and can be used in any orientation offering complete flexibility for more bespoke applications.

- Lamp-free Laser & LED Hybrid light source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output
- Up to 3,000 ANSI lumens
- XGA and WXGA resolution
- Intelligent Brightness Control
- 3D Ready
- Free projector fleet management software available (LAN models only)
- Extensive connectivity options, including HDMI, LAN, WLAN, USB and S-Video (selected models)

Models	ANSI lumens	Resolution	USB/LAN/WLAN
XJ-M130	2,000	XGA (4:3)	–
XJ-M140 / XJ-M145	2,500	XGA (4:3)	XJ-M145 only
XJ-M150 / XJ-M155	3,000	XGA (4:3)	XJ-M155 only
XJ-M240 / XJ-M245	2,500	WXGA (16:10)	XJ-M245 only
XJ-M250 / XJ-M255	3,000	WXGA (16:10)	XJ-M255 only

5 YEAR OR 10,000 HOUR WARRANTY

Case Study – St Georges Academy

Leading Maths and Computing Academy, St Georges, adopts Laser & LED Hybrid Projectors throughout the Academy:

"One of the very few products that I would happily endorse:" Jamie Hirst – ICT Services Director, St George's Academy.

New Casio XJ-M Signature range provides enlightened learning experience whist dramatically decreasing costs:

St George's Academy is a thriving, specialist academy in the heart of Lincolnshire excelling in the provision of Maths and Computing to over 2,200 students across two sites in Sleaford and Ruskington.

In the classroom, modern and emerging technologies take a key role in teaching methods with useful innovation being key to life at the Academy.

Jamie Hirst is the ICT Services Director for the Academy operating in a team of seven and is responsible for recommending and procuring integrated ICT to positively enrich the classroom experience. As such, when a Casio model of a new Laser & LED Hybrid projector appeared back in the summer of 2010, and having worked with lasers previously, Jamie knew that what had been announced was nothing short of revolutionary enabling the move away from the resource draining conventional lamp-based projectors. He elaborates. *"The minute you switch on a conventional bulb based projector, degradation in the brightness of lumens starts.*

Prior to the new Casio projectors being deployed, we not only had to factor in the high cost of new bulbs every 3 years, at the cost of £200 each, we also had to consider the ongoing maintenance cost of cleaning out filters on a monthly basis, which is no longer required with the Casio projectors."

Jamie contacted Casio and the first Casio XJ-A Green Slim model was dispatched. Such was the positive response when in operation, that an order for the remaining five rooms in the Language Centre followed immediately.

It made sound financial and teaching sense to deploy Laser & LED Hybrid projectors throughout the Academy and the decision was made to replace all the projectors. Casio had enhanced the model range further with the arrival of the new Casio XJ-M140.

Each Casio XJ-M140 arrived with a no-quibble 5 year or 10,000 hour hardware and light source warranty, which Jamie envisages will last the Academy many, many years before each projector needs replacing.

The remaining units were installed in all the Academy's classrooms throughout the summer vacation and their lightweight frame slotted seamlessly into the existing ceiling mounted brackets.

When the Academy returned in the Autumn term, staff instantly reported a marked difference in their teaching experience. Lectures were no longer interrupted with staff fiddling with blinds and adjusting projector settings in order that the whole class could see the lesson properly.

As you would expect in such a forward thinking environment, the Academy has a strong Green Policy and strives wherever possible to reduce energy and carbon overheads, demonstrating efficiencies. Part of the Signature Range, the Casio XJ-M140 boasts 75% reduction in energy costs, using less than 1 watt of electricity in standby mode and contains no mercury for disposal considerations.

Jamie concludes. *"We stand proud of our heritage of deploying really useful technology that produces an enhanced learning experience for the children and staff and give us significant reductions in the cost of ownership deploying a far superior product. As a technology Academy, we stand extremely proud of this installation and technology choice and it is a solution I am happy to put my name against."*

"We stand proud of our heritage of deploying really useful technology that produces an enhanced learning experience for the children and staff and give us significant reductions in the cost of ownership deploying a far superior product."

For more information on Casio projectors visit **www.casio.co.uk/projectors** or call **020 8450 9131**

Short Throw Series

Big screen performance in small spaces

The XJ-ST145 & XJ-ST155 deliver a short throw projection solution using the cost-effective, environmentally-friendly Casio Laser & LED Hybrid light source. Perfect for use with whiteboards in classrooms or in meeting rooms where space is limited, the Short Throw models can achieve a 60" screen from just 80cm away from the display surface.

Both models are easily re-fitted to existing short throw systems where projector replacement is required. Their ability to be connected to a network means that they can be monitored and controlled from a remote location, allowing users to centralise the management of their projector fleet.

- Lamp-free Laser & LED Hybrid light source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output
- 60" screen from just 80cm
- Intelligent Brightness Control
- 3D Ready
- Free projector fleet management software available
- Extensive connectivity options, including HDMI, LAN, WLAN and USB
- Short Throw series can be retrofitted to existing interactive solutions.

Contact your reseller or distribution partner for bespoke bracket options

Models	ANSI lumens	Resolution	USB/LAN/WLAN
XJ-ST145	2,500	XGA (4:3)	Yes
XJ-ST155	3,000	XGA (4:3)	Yes

5 YEAR OR 10,000 HOUR WARRANTY

Case Study – United Learning

United Learning, nationwide advisor for 30,000 children across UK Academies' & Independent Schools, recommends Casio's revolutionary Laser & LED Hybrid projector range:

New Casio Laser & LED Hybrid lampless technology re-invigorates classroom learning and dramatically reduces cost of ownership for education.

United Learning offers best advice on provision of a quality infrastructure to 30,000 schoolchildren across the UK. To this end, United Learning Technologies group ethos is to train and facilitate their 2,500 teachers to enable the most out of new technology to positively enrich the classroom experience.

Learning Technoloiges Team Leader Geoff Gould has been an ongoing advocate of deployment of worthy audio visual equipment technology to education establishments for over ten years. He takes up the story. *"Since 1999 we have had a policy of having LCD projectors to accompany our Interactive Whiteboards. However, whilst LCD projectors were still a mile ahead of the previous OHP projection technology, distinct quality issues were becoming apparent after just a year or so of use."*

In the classroom, lamp lumen degradation was the first to go; with lamps starting to significantly dim after 15-18 months of use. In addition, ongoing maintenance was required with filter cleaning recommended on a monthly basis. Ongoing lamp replenishment was another constant drain. With most schools holding a variety of LCD projectors all with varying lamp types, academies were required to keep a rolling stock of replacement lamps on premises.

Environmental factors within the classroom itself also needed to be considered when using the LCD projectors. Blinds to divert natural daylight often needed to be darkout or even blackout quality and lights had to be switched off to stop incumbent light pollution. Teachers were also concerned that these conditions were less than ideal for those pupils who may have been susceptible to eye strain.

Teachers, school AV Teams and IT departments turned to the experts at United Learning for advice, despondent that even after just the second year of use the LCD projectors were becoming sub-optimal.

United Learning contacted their AV partner, IDNS, who suggested that lamp-free LED technology should be evaluated as an alternative technology. Casio's new Laser & LED Hybrid range was suggested and following a demonstration, Geoff and the Team at United Learning were impressed by the immediate light vibrancy on offer.

Communications to all of the United Learning's Network Managers followed containing recommendations as to why individual establishments would benefit, with proof points provided by Swindon Academy.

A year down the line, the Casio Laser & LED Hybrid projector ranges are firmly entrenched across the UK's classrooms, with over 10 of United Learning's establishments running the transforming Casio LED projectors. That's over 700 units, with more being installed as budget allow each week; their compact size slotting into the existing ceiling mounts and their inbuilt auto configuration quickly finding the optimum viewing experience.

In terms of ROI vs. initial capital outlay per unit, Geoff has conducted some interesting findings with a five year cost of ownership (TCO) plan for traditional LCD vs. Casio's Laser & LED Hybrid projectors. He comments on his findings: *"A traditional lamp-based LCD projectors' TCO over 5 years equates to around £1,200 (including projector, sourcing & installing 1 replacement lamp, arranging 1 offsite specialist deep clean & ongoing onsite maintenance 6 times a year); vs. Casio's projectors that retails at under £700 and simply has no further overhead. It's not just the financial considerations that stand out here. It's the fact that there is no downtime or hassle factor with the Casio Laser & LED Hybrid projectors."*

For total peace of mind, Geoff notes that Casio uniquely back each unit with a 5 year, 10,000 hour no-quibble guarantee.

"It's not just the financial considerations that stand out here. It's the fact that there is no downtime or hassle factor with the Casio Laser & LED Hybrid projectors."

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Pro Series

High brightness projectors for installation

The Pro series offers high brightness projection solutions using the cost-effective, environmentally-friendly Casio Laser & LED Hybrid light source. Perfect for large meeting rooms and school halls, models in the Pro series deliver up to 4,000 ANSI lumens with consistent brightness and a 20,000 hour life expectancy.

Selected models can also be connected to a network, which means they can be monitored and controlled from a remote location, allowing users to centralise the management of their projector fleet.

- Lamp-free Laser & LED Hybrid light source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output
- Bright up to 4,000 ANSI lumens performance
- Intelligent Brightness Control
- XGA and WXGA resolution
- 3D Ready
- Free projector fleet management software available (LAN models only)
- Extensive connectivity options, including HDMI, LAN, WLAN and USB (XJ-H1650)

Models	ANSI lumens	Resolution	USB/LAN/WLAN
XJ-H1600 / XJ-H1650	3,500	XGA (4:3)	XJ-H1650 only
XJ-H1700 / XJ-H1750	4,000	XGA (4:3)	XJ-H1750 only
XJ-H2600/ XJ-H2650	3,500	WXGA (16:10)	XJ-H2650 only

5 YEAR OR 10,000 HOUR WARRANTY

Case Study – London School of Economics

The World's Leading Social Sciences University, The London School of Economics, selects Casio Lamp-free Projection across 80 lecture theatres.

Migration offers freedom from maintenance and alleviates lamp replacement costs in an 'install and forget' economically driven rollout.

The London School of Economics (LSE) is a world-renowned public research university specialised in social sciences. As one of the UK's most popular and selective universities, Dan Roberts, LSE's AV & Teaching Spaces Manager, facilitates AV for an ongoing intensive lecture programme. In an effort to decrease both the maintenance window and cost of ownership by changing traditional lamp based projectors throughout the LSE lecture theatres, Dan evaluated Casio's innovative new Laser & LED Hybrid/Lamp-free light source designed for demanding environments. Impressed the quality of light up to 4000 Lumens, Dan presented thebusiness case including strong arguments for reduced maintenance time, zero costs of bulb replacements and a reduction in carbon footprint through lower running costs.

Dan comments. *"On paper, building a strong economic business case using lamp-free projection was relatively straightforward. With former traditional projectors, we were spending over £300 per replacement lamp, frequently, twice a year. Add that across 80 theatres, together with the overhead of ongoing out-of-hours maintenance to stem degradation and maintain optimal viewing for students and you can see why the Casio Pro series was a welcome and interesting technology advance for us."*

Now fully installed as standard across the University, the Casio Pro Series robustly offers optimal viewing of lectures with high colour resolution and high definition image rendition. Lecture rooms vary widely, both in capacity and in natural light filtration. Regardless of whether serving 15 or 90 students, the Casio Pro Series fulfils brilliant and natural retention of colours and sharpness of images right across the room. Its integrated Intelligent Brightness Control automatically and seamlessly adjusts the light output according to conditions for optimal staging, even in bright sunlight conditions.

With integrated QuickStart and Power Down functionality, maximising lecture time has been a positive experience, as the Casio Pro Series kicks straight into power-on mode; filling the room with brightness and facilitating an immediate and attentive start to lectures. At the end of each lecture, reassuringly, no cool down period is required either. Dan reports:-

"You can imagine delivering an important lecture in front of 90 eagerly awaiting students, only to have the start hindered with a slow to respond projection device. Some lecturers would try and overcome the wake up time lag, by leaving the projector switched on to assist following lectures, but that only added to the lamp usage times and increased the cost of ownership."

LSE remains a key facilitator of carbon footprint reduction whilst eradicating the use of potentially harmful substances throughout the University. Their Sustainable Estates group takes an active role in improving the University's environmental credentials. Initial stats on the Casio Pro Series immediately illustrated a 100% mercury-free install together with a significant green impact on energy efficiency translating to lower energy overheads. The integrated light source within the Casio Pro Series demands far less power than fan-assisted traditional projectors. Examining the cost of electricity per kWh, in standby mode, each Casio Pro series consumes just 0.4W and 250W in eco on mode. Further eco design consideration emits from the integrated Intelligent Brightness Control – seamlessly minimising power consumption by ensuring the brightness delivered is optimised to suit the room.

Dan concludes on the install: *"We have been using the Casio Pro Series for over three years now, satisfactorily decreasing LSE downtime, TCO and ultimately saving AV budget and resources."*

www.casio.co.uk/projectors
www.lse.ac.uk

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Model			GREEN SLIM SERIES				SIGNATURE SERIES					SHORT THROW SERIES		ULTRA SHORT THROW	PRO SERIES			DUAL PROJECTION SYSTEM
			XJ-A131	XJ-A141, XJ-A146	XJ-A241, XJ-A246	XJ-A251, XJ-A256	XJ-M130	XJ-M140, XJ-M145	XJ-M150, XJ-M155	XJ-M240, XJ-M245	XJ-M250, XJ-M255	XJ-ST145	XJ-ST155	XJ-UT310WN	XJ-H1600, XJ-H1650	XJ-H1700, XJ-H1750	XJ-H2600, XJ-H2650	XJ-SK600
Technology			XGA 0.55" DLP® chip	XGA 0.55" DLP® chip	WXGA 0.65" DLP® chip	WXGA 0.65" DLP® chip	XGA 0.55" DLP® chip	XGA 0.55" DLP® chip	XGA 0.55" DLP® chip	WXGA 0.65" DLP® chip	WXGA 0.65" DLP® chip	XGA 0.7" DLP® chip	XGA 0.7" DLP® chip	WXGA DLP® chip	XGA 0.7" DLP® chip	XGA 0.7" DLP® chip	WXGA 0.65" DLP® chip	2 x WXGA 0.65" DLP chip
Light Source			Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser - LED hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid	Laser & LED Hybrid
Life Expectancy			20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours
Brightness (ANSI Lumens)			2000	2500	2500	3000	2000	2500	3000	2500	3000	2500	3000	3100	3500	4000	3500	6000
Intelligent Brightness Control			Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	No
Contrast Ratio			1800:1	1800:1	1800:1	1800:1	1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1	1400 : 1	1400 : 1	1400 : 1	1800 : 1
Native Resolution			XGA (1024x768 pixels)	XGA (1024x768 pixels)	WXGA (1280x800 pixels)	WXGA (1280x800 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)	WXGA (1280x800 pixels)	WXGA (1280x800 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)	WXGA (1280 x 800 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)	WXGA (1280x800 pixels)	WXGA
Max Signal Resolution			UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	1080p / 60hz
Lens	Standard zoom		2x optical zoom (electronic)	2x optical zoom (electronic)	2x optical zoom (electronic)	2x optical zoom (electronic)	1.5x optical zoom (manual)	1.5x optical zoom (manual)	1.5x optical zoom (manual)	1.5x optical zoom (manual)	1.5x optical zoom (manual)	-	-	-	1.2x optical zoom (manual)	1.2x optical zoom (manual)	1.2x optical zoom (manual)	Dual 1.5x optical zoom (manual)
	Focus		Electronic	Electronic	Electronic	Electronic	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
	Offset		100%	100%	84%	84%	100%	100%	100%	83%	83%	109%	109%	118% (60")	100%	100%	111%	83%
	Projection Ratio		f15.9-30.8/ F2.29-3.09	f15.9-30.8/ F2.29-3.09	f15.9-30.8/ F2.29-3.09	f15.9-30.8/ F2.29-3.09	f18.9-27.2/ F2.31-2.73	f18.9-27.2/ F2.31-2.73	f18.9-27.2/ F2.31-2.73	f18.9-27.2/ F2.31-2.73	f18.9-27.2/ F2.31-2.73	f9.78/F2.5	f9.78/F2.5	f2.3/F4.2	f23.2-27.7/F2-2.15	f23.2-27.7/F2-2.15	f23.2-27.7/F2-2.15	f18.9 -27.2/ F2.31 - 2.73
Fan Noise			35dB (default)	35dB (default)	35dB (default)	35dB (default)	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	33 dB (default) / 28 dB	35 dB (default)
Keystone Correction (Vertical)			+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 5°	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 15°
Screen Size (diagonally)			15 - 300"	15 - 300"	18 - 300"	18 - 300"	30 - 300"	30 - 300"	30 - 300"	35 - 300"	35 - 300"	45 - 142"	45 - 142"	50 - 100"	27 - 300"	27 - 300"	30 - 300"	50 - 300"
Throwing Distance	60" screen		1.7m to 3.4m	1.7m to 3.4m	1.4m to 2.8m	1.4m to 2.8m	2.0m to 3.0m	2.0m to 3.0m	2.0m to 3.0m	1.7m to 2.5m	1.7m to 2.5m	0.8m	0.8m	0.13m	1.9m to 2.3m	1.9m to 2.3m	2.1m to 2.5m	1.7m to 2.5m
	100" screen		2.8m to 5.6m	2.8m to 5.6m	2.4m to 4.8m	2.4m to 4.8m	3.4m to 4.9m	3.4m to 4.9m	3.4m to 4.9m	2.9m to 4.9m	2.9m to 4.9m	1.4m	1.4m	0.40m	3.3m to 3.9m	3.3m to 3.9m	3.5m to 4.2m	2.9m to 4.9m
Throw Ratio			1.4 - 2.8	1.4 - 2.8	1.15 - 2.3	1.15 - 2.3	1.64 - 2.46 : 1	1.64 - 2.46 : 1	1.64 - 2.46 : 1	1.32 - 1.93 : 1	1.32 - 1.93 : 1	0.68 : 1	0.68 : 1	0.28 : 1	1.60 - 1.91 : 1	1.60 - 1.91 : 1	1.62 - 1.95 : 1	1.4 - 1.8 : 1
Inputs	Computer	Input	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15 pin RGB mini D-sub (VGA)	1 x VGA
		Output	-	-	-	-	-	-	-	-	-	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15 pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15 pin RGB mini D-sub (VGA)	none
	Digital input		1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p - 1,080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1080p)	1 x HDMI type A (480p–1080p)
	Video		1 x RCA composite (via supplied AV cable)	1 x RCA composite (via supplied AV cable)	1 x RCA composite (via supplied AV cable)	1 x RCA composite (via supplied AV cable)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	N/A
			-	-	-	-	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	N/A
	Component video		Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	via 2 x D-sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D-Sub 15 pin	Via D-Sub 15-pin
	Audio	Input	-	-	-	-	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	2 x 3.5mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	HDMI embedded audio
			-	-	-	-	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x 1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x 1	-
		Output	From HDMI input only	From HDMI input only	From HDMI input only	From HDMI input only	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	2 x 3.5mm stereo mini jack, 1 x MIC	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5mm stereo mini jack	Projector speakers only
	RS-232C serial		YK-5 (optional accessory)	YK-5 (optional accessory)	YK-5 (optional accessory)	YK-5 (optional accessory)	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini Dsub
	WLAN		-	XJ-A146 only	XJ-A246 only	XJ-A256 only	-	XJ-M145 only	XJ-M155 only	XJ-M245 only	XJ-M255 only	Yes	Yes	Yes	XJ-H1650 only	XJ-H1750 only	XJ-H2650 only	-
	LAN terminal		-	-	-	-	-	1 x RJ-45 (XJ-M145 only)	1 x RJ-45 (XJ-M155 only)	1 x RJ-45 (XJ-M245 only)	1 x RJ-45 (XJ-M255 only)	1 x RJ-45	1 x RJ-45	1 x RJ-45	1 x RJ-45 (XJ-H1650 only)	1 x RJ-45 (XJ-H1750 only)	1 x RJ-45 (XJ-H2650 only)	1 x RJ-45
	USB		-	1 x USB type A (XJ-A146 only)	1 x USB type A (XJ-A246 only)	1 x USB type A (XJ-A256 only)	-	1 x USB type A (XJ-M145 only)	1 x USB type A (XJ-M155 only)	1 x USB type A (XJ-M245 only)	1 x USB type A (XJ-M255 only)	1 x USB type A	1 x USB type A	1 x USB type A	1 x USB type A (XJ-H1650 only)	1 x USB type A (XJ-H1750 only)	1 x USB type A (XJ-H2650 only)	-
	Interactive pointing		-	-	-	-	-	-	-	-	-	1 x USB type B	1 x USB type B	2 x USB type B	1 x USB type B (XJ-H1650 only)	1 x USB type B (XJ-H1750 only)	1 x USB type B (XJ-H2650 only)	-
Speaker			1W	1W	1W	1W	5W	5W	5W	5W	5W	10W	10W	16W	10W	10W	10W	2 x 5W
Instant Off			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Time To Full Brightness	Max		8 secs	8 secs	8 secs	8 secs	5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	10 secs
Power Consumption	Eco Off		210W	210W	210W	210W	190W	190W	190W	190W	190W	330W	330W	MAX 250W	330W	350W	330W	390W (total system con-sumption)
	Eco On Level 1		170W	170W	170W	170W	150W	150W	150W	150W	150W	260W	260W	230W full, 185W Eco1	250W	270W	250W	N/A
	Standby		0.4W	0.4W	0.4W	0.4W	0.4W	0.4W	0.4W	0.4W	0.4W	0.4W	0.4W	0.4W (LAN off), 4.8W (LAN on)	0.4W	0.4W	0.4W	1.2W
Colour			White	White	White	White	White	White	White	White	White	White	White	White	White	White	White	White (Black outer cage)
Dimensions (wxhxd) mm			297x43x210	297x43x210	297x43x210	297x43x210	311 x 244 x 82	311 x 244 x 82	311 x 244 x 82	311 x 244 x 82	311 x 244 x 82	420 x 323 x 106	420 x 323 x 106	Max 413 x 333 x 153 mm	400 x 323 x 106	400 x 323 x 106	400 x 323 x 106	346 x 305 x 373 (includes YA-S10 correction box)
Weight			2.3kg	2.3kg	2.3kg	2.3kg	3.9kg	3.9kg	3.9kg	3.9kg	3.9kg	7.1kg	7.1kg	5.7kg	7.1kg	7.1kg	7.1kg	18.3kg
Box Contents			Remote Control (YT-110), Composite Cable, RGB Cable, YW-3 Wireless Adapter (USB models only), Power Cable, Carrying Bag, User Manual, CD-ROM				Remote Control (YT-120), RGB Cable, YW-3 Wireless Adapter (USB models only), Power Cable, Carrying Bag, User Manual, CD-ROM					Remote Control (YT-120), RGB Cable, YW-3 Wireless Adapter (USB models only), Power Cable, Carrying Bag, User Manual, CD-ROM		Remote Control (YT-140), YW-40 Wireless Adapter, RGB Cable, Power Cable, Set-up Guide, Carrying Bag, YM-80 Wall Mount	Remote Control (YT-120), RGB Cable, YW-3 Wireless Adapter (USB models only), Power Cable, Carrying Bag, User Manual, CD-ROM			Stack cabinet XJ-M250 x 2 (pre installed), Geometric correction box YA-S10 (pre installed), Remote control x 2 (projector and correction box), AC power cord x 2 (projectors), AC power cord & adaptor (correction box), RGB cable X 1, HDMI cable X 2, RS-232C cables X 2, Manual X 2 (projector & correction box), Batteries X 4 (AAA size), Setup guide, Kensington wire X 3

For more information on Casio projectors visit **www.casio.co.uk/projectors** or call **020 8450 9131**

Remote projector management

Crestron Roomview Express® software provides a custom configurable interface to monitor, manage and control every device in every room remotely from any computer. Use the free network management software (Crestron Roomview Express®) to automatically switch ON/OFF up to 250 projectors from a single location. The easy-to-use interface allows you to manage all the units connected to the network in one place.

- Manage up to 250 projectors at the same time (via master PC).
- Alter the projector settings using a simple web browser page including OSD menu control.
- Set up email alerts for warning messages.
- Ideal for large installations in both educational and business environments.

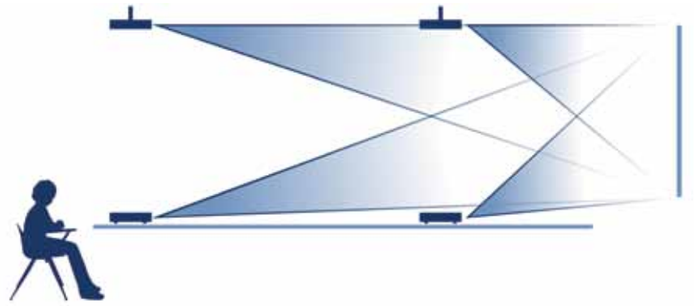
Available on Signature, Short Throw, Pro series Wireless / LAN models and UST via LAN.

Download Crestron RoomView® Express software from:

www.crestron.com/getroomview

Flexible installations

To enable flexible installs within a host of applications, Green Slim, Signature and Pro Series feature integrated zoom. This enables users to adjust the screen size projected without actually moving the projector. It is particularly useful for room upgrade programmes, where the Casio projector will be replacing an existing unit. The optical zoom feature means that the Casio projector could directly replace the old projector – without moving the brackets – and deliver exactly the same screen size as before. This will save a significant amount of time, money and disruption.



Dual projector system XJ-SK600

Now high brightness projection from Casio projectors can be achieved with the dual projector system.

The stack system provides up to 6,000 ANSI lumens brightness and creates and projects overlapping images onto a single screen. Ideal for larger scale installs including school halls, lecture theatres and leisure applications.

- 2 x XJ-M250 projectors
- Lamp-free technology
- Up to 6,000 ANSI lumens
- Built in control box (YA-S10)
- 5 year/ 10,000 hour warranty

Geometric Correction Box YA-S10

The YA-S10 allows two projectors with HDMI inputs to be stacked together, not only does this offer far higher brightness, the image warping feature within the control box also allows for projection onto difficult surfaces such as curves and pillars.

For more information on Casio projectors visit **www.casio.co.uk/projectors** or call **020 8450 9131**

CASIO
PROJECTORS

THE CASIO RANGE OF PROJECTORS

GREEN SLIM

The Green Slim series is the perfect choice for those looking to upgrade their current projectors. An industry-leading 2x optical zoom means that a Green Slim model will replace almost any installed projector seamlessly, without having to move the existing ceiling brackets.

SIGNATURE

The nine models in the Signature series offer a range of connectivity options, including RGB, HDMI, LAN, WLAN & USB* and similar to the Green Slim series offers great retro-fit solutions. Selected models also offer remote fleet management capability.

**available on specific models.*

SHORT THROW

Both models in the Short Throw series are easily re-fitted to existing short throw systems where projector replacement is required. Their ability to be connected to a network means that they can be monitored and controlled from a remote location, allowing users to centralise the management of their projector fleet.

ULTRA SHORT THROW

The NEW Ultra Short Throw model offers brightness of 3,100 ANSI lumens – more than enough for even a large, bright classroom or meeting room and features WXGA resolution with XGA compatibility option. The main benefit of Ultra Short Throw projection is that it virtually eliminates shadowing on the screen allowing for more creative and engaging presentations.

PRO SERIES

The six Pro Series models are the perfect option for those wanting to take advantage of the Laser & LED Hybrid light source whilst presenting in larger spaces. These models also offer advanced connectivity perfect for the demands of these types of installation.

DUAL PROJECTOR SYSTEM

Now high brightness utilising the benefits of Laser & LED Hybrid technology can be achieved with the dual projector system. The stack system provides up to 6,000 ANSI lumens brightness and creates and projects overlapping images onto a single screen. Ideal for larger scale installs including school halls, lecture theatres and leisure applications.

For more information about the Casio projector range visit **casio.co.uk/projectors** or call **020 8450 9131**