Uninterrupted Learning through Long-Lasting and Innovative Projection Solutions

Blue Tang

SeaHorse

Clownfish

BenQ

Because it matters

Dealer's Stamp

#1 DLP Projector Brand

GLOBAL #1 DLP PROJECTOR BRAND

BenQ

Because it matters

Strengthen Classroom Engagement with Digital Integration

Digital Native

Education is evolving quickly. Now tasked with handling a generation of digital native students who are different than any that came before, teachers and schools have their work cut out for them. Many schools are facing a transitional period in how they use technology. As the flipped classroom model becomes standard, schools will finally need to replace their old projectors with new technology. Since many schools have already adopted new display technologies, there is abundant information about which ones deliver the best results in the classroom.

As students change, so do teachers' needs. It's no longer enough for schools to have old technology that sits in storage and is only rolled out for the occasional presentation. Teachers nowadays need advanced tools that let them prepare materials that can be used both in class and at home on notebooks, tablets, and smartphones.

Getting information from digital devices.

2 mins
They often focus for less than 2 minutes

Having a preference for images over texts and they learn best from visual materials.

Digital natives, often referred to children born from 2003 onward, learn differently than their predecessors did. First of all, they are well accustomed to getting information through digital devices. Familiar tools help them feel more comfortable in class and can lead them to higher achievement. Secondly, students nowadays have

shorter attention spans than students from a decade ago. They often focus for less than 2 minutes at a time and it's difficult to regain their attention once it's gone, meaning up to 25% of their time in class goes to waste. Furthermore, digital natives have a preference for images over texts and they learn best from visual materials.

120MINS
waste every week

Technology, when used improperly, can be a huge interruption in class. A teacher with a typical course load will waste up to 2 hours every week because of outdated technology. Since switching between analog and digital teaching modes wastes class time and interrupts students' focus, teachers need equipment that can support them throughout the whole class. By implementing laser projectors with interactive screens, teachers can effectively use the screen as a whiteboard to facilitate smoother classroom interaction and widen the range of learning experiences.

Three Things to Consider when Determining the Right Equipment

Using proper devices can unlock infinite possibilities in the classroom. By choosing display solutions that suit your school's classroom sizes and your teachers' needs, you'll empower your teachers to make education more fun and impactful than ever before. When discussing what display solutions to purchase, you can use the questions below as a starting point for making your choice.

Q1 Are your display solutions clear and easy to read?

The Facts

Research shows students learn up to 26% faster in a classroom with proper lighting.

Illegible texts take twice as long to get through.

Students lose up to 25% of potential learning time because they're not paying attention.

Digital natives prefer images to text. When images are of low qualities, learners quickly lose interest.

Important Points to Consider

▸ When teachers turn off the lights to use a projector, do students lose focus and feel drowsy?
▸ Do students need to squint to see text and images clearly?
▸ Do students easily lose concentration whenever teachers switch to using the projector?

How the BenQ Education Laser Projector Can Help

▸ Long-lasting color and brightness
▸ High resolution for focus-boosting clarity
▸ High brightness for well-lit environments
▸ Image uniformity enhancement
▸ High contrast ratio for enhanced readability

Q2 Do teachers have the tools they need for smooth teaching?

The Facts

2 hrs
Teachers waste 2 hours every week dealing with IT issues

NEW
New equipment is more user friendly than old technology

Fewer IT issues means less downtime when students can get distracted

Smoother teaching flow means less time wasted in the classroom

Important Points to Consider

▸ Do teachers frequently waste time fiddling with old equipment?
▸ Do teachers have the tools to properly implement a flipped classroom?
▸ Are projectors compatible with the personal devices that teachers and students use?
▸ Can your projectors switch among different signal sources quickly without wasting time and losing students' attention?

How the BenQ Education Laser Projector Can Help

▸ Instant power on/off
▸ Projection onto any surface
▸ Multi-touch & multi-screen drawing for enhanced interactivity
▸ QCast Wireless Solution for easy BYOD collaboration

Q3 Are your displays optimized to help students learn?

The Facts

SIZE
Determine the ideal display solution for classrooms, lecture halls, gymnasiums, or other venues depend on the size of the room and the number of students

In a standard classroom, students in the back may have trouble reading text on a standard 65' display

Ideally, a display solution should create images that are clear from the back corners of the room

The IEC class 1/RG2 certified laser light source can ensure user safety under all normal conditions.

Important Points to Consider

▸ Are some of your students unable to join the discussion because they can't see the screen clearly?
▸ Do you need display solutions that can work in many different room sizes?

How the BenQ Education Laser Projector Can Help

▸ Ultra short throw projection
▸ Big zoom for unrivalled installation flexibility
▸ High brightness for clear images even in large rooms

In addition to the questions above, here are a few other things to consider:

Projectors with dustproof technology can cut maintenance costs by one third.

Laser projectors are lamp-free and can operate for 20,000 hours without requiring replacement, resulting in lower operating costs.

DLP projectors offer long-lasting color and image quality that will improve students' learning.

Smooth Learning Without Interruptions

BLUE CORE LASER

Long-Lasting Color & Brightness for Supreme Performance

Students who see better learn better. Harnessing the power of the BlueCore™ laser technology, BenQ education laser projectors can deliver vastly improved color saturation and brilliancy when compared to lamp-based projectors of the same lumen output. Improved legibility and clearer images will boost students' learning outcomes and provide a smoother classroom experience for everyone.

Phosphor Wheel

Color Wheel
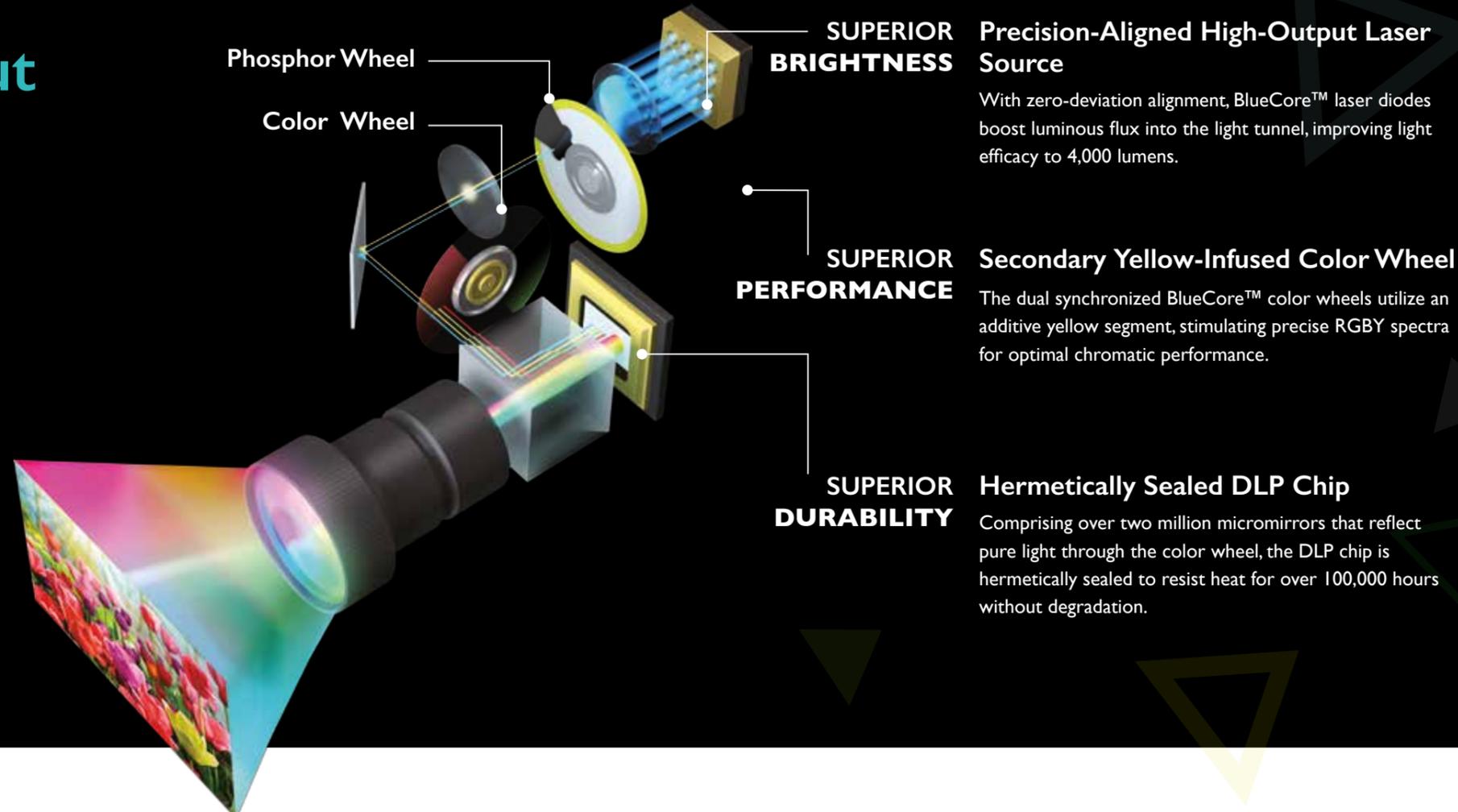
SUPERIOR BRIGHTNESS — **Precision-Aligned High-Output Laser Source**

With zero-deviation alignment, BlueCore™ laser diodes boost luminous flux into the light tunnel, improving light efficacy to 4,000 lumens.

SUPERIOR PERFORMANCE — **Secondary Yellow-Infused Color Wheel**

The dual synchronized BlueCore™ color wheels utilize an additive yellow segment, stimulating precise RGBY spectra for optimal chromatic performance.
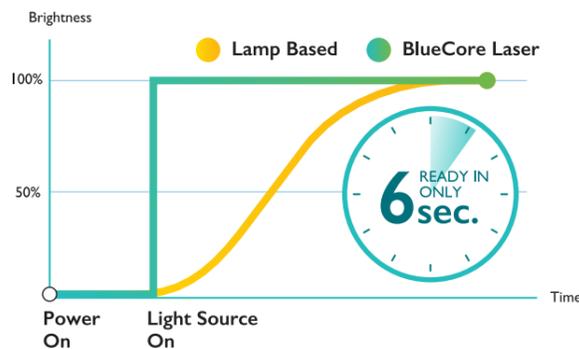
SUPERIOR DURABILITY — **Hermetically Sealed DLP Chip**

Comprising over two million micromirrors that reflect pure light through the color wheel, the DLP chip is hermetically sealed to resist heat for over 100,000 hours without degradation.

▷ Instant Power On/Off
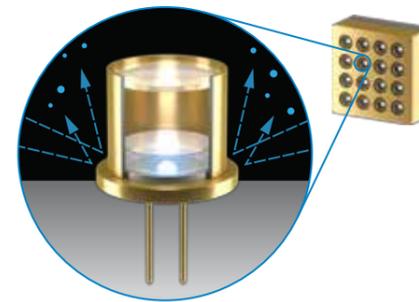
Effectuates Ideal Control of Class Rhythm

Superior than conventional lamp projectors that require warm up and cool down time, BenQ education laser projectors turn on and off instantly to save valuable time for lectures and important instructional presentations.

Brightness

○ Lamp Based   ● BlueCore Laser

100%

50%

READY IN ONLY 6 sec.

Time

Power On | Light Source On

▷ Sealed Engine for Laser Light Source

Ensures Performance of 20,000 Hours

With a fully sealed laser light source and an innovative sealed engine design empowered by BenQ's Dust Guard™ technology, BenQ education projectors guarantee 20,000 hours of maintenance-free operation, which prevents extra expenses on lamp replacement and maintenance. The laser light source can resist brightness decay and make BenQ laser education projectors highly stable while ensuring high brightness performance after years of usage.

Brightness

○ Lamp Based   ● BlueCore Laser

≤5,000hrs   **20,000hrs**

Life(hours)

▷ Sealed Laser Bank

Preserves Enduring High Brightness

BlueCore™ laser diodes are fully sealed and mounted in the laser bank, completely preventing dust entry to minimize brightness decay for long-lasting high brightness.

IEC Class 1/ RG2 Standard Ensures Laser Safety under All Normal Conditions

BenQ education laser projectors comply with International Electro-technical Commission's (IEC) Class 1/ RG2* standard. The laser beam from BlueCore™ laser diodes passes through two special diffuser lenses, converting the point light source into a surface light source, which means that they are incapable of causing damage under normal operating conditions even when the laser beam is directed into the eye.

* Class 1(comply with IIEC 60825-1:2014)+ RG2(comply with IEC 62471-5:2015) Standard: Available on LU950/LH890UST/ LV890UST/ LX890UST/ LV820ST/ LX820ST/LX770/LH770/ LX720/LW720/LH720
* RG2(Risk Group2): Hazard level associated with illumination RG2 means no out of the ordinary safety procedures are required.

Laser Light Source

Diffuser Lens

Point Light Source

Surface Light Source

Optimize Learning with Long-Lasting and Durable Brightness

## Comprehensive Dustproof Solutions for Optimal Performance and Reliability

BenQ's Dust Guard™ technology incorporates the latest sealed optical engine design, color wheel sensor, and high performance dust filters to block out up to 99% of dust and particles. Built to offer long-lasting performance, BenQ Education Laser Projectors can enhance students' attention spans and boost teaching performance. Their sealed optical path design also guarantees superb image quality and stable operation even in dusty environments.

▷ Dust Filters

Block 90% of Particles and PM2.5

BenQ Dust Guard™ employs advanced dust filters to prevent intrusion of up to 90% of PM10 level particles such as pollen and dust, tremendously improving protection in dusty environments. Certain models under Dust Guard™ go further by employing two layers of filters to block chalk residue and particles up to the level of PM2.5 without restricting air flow. For added peace of mind, BenQ education projectors possess built-in Filter Timers that can remind users to replace filters and reset them after replacement.

▲ Soot
＋ Cotton Fiber
✳ Pollen
✴ Dust
▪ Chalk Dust
• PM2.5
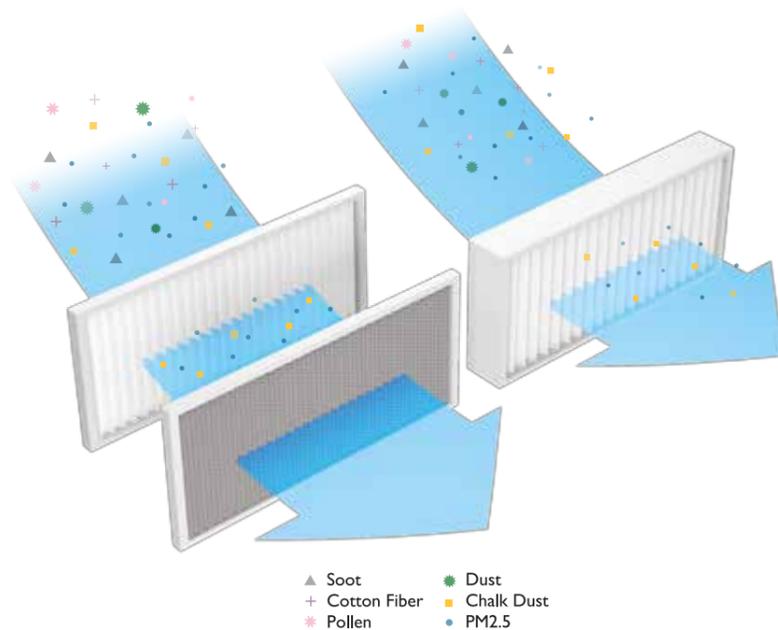
▷ Sealed Engine

Completely Prevents Dust Entry

BenQ Dust Guard™ features a sealed optical engine that fully protects the DLP chip, color wheels, and light path components. It effectively eliminates common problems like color wheel sensor failures, visible spots on images, and color decay to significantly reduce service costs and downtime.

▷ Hall Sensor

Proves Invulnerable to Dust Accumulation

BenQ Dust Guard™'s hall sensor is significantly more dust-resistant than traditional sensors, with uncompromised functionality even when levels of dust deposits are 7X＊ higher than normal. The hall sensor utilizes magnetic signals for timing, which is invulnerable to dust accumulation. Even in severe environments with possible dust accumulation, the hall sensor signal can still effectively distinguish colors for precise alignment and uninterrupted projection.

Timing Mark
Signal Blocked by Dust
IR Sensor

Timing Mark
Signal Unblocked by Dust
Hall Sensor
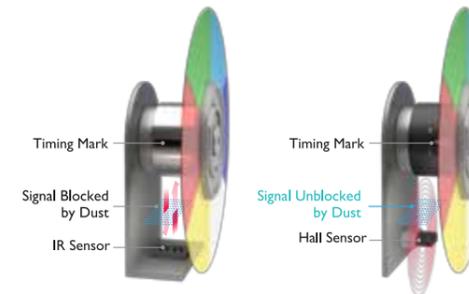
＊When used in the same environment, the hall sensor maintains normal functionality even after having 40g of sand inside, whereas traditional sensors lose their detection capacity after having 6g of sand inside.

▷ Anti-Dust Accumulation Sensor

Resists Dust Buildup

Incorporating color wheel sensors with an ingenious anti-dust accumulation feature, BenQ Dust Guard™ prolongs optimal performance by repelling dust which can accumulate on traditional sensors to block the IR signal and cause flickering, abnormal colors, or even shutdowns.
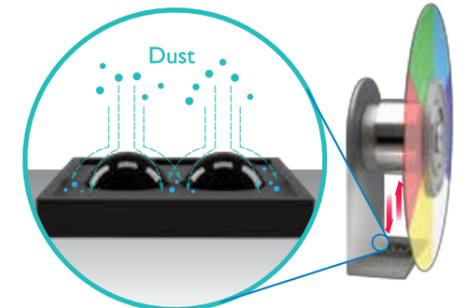
Dust

BenQ DLP Projectors	Core Technology	Corresponding Level Of Pollution	Dustproof Protection Rating	Range Of Blocked Particles	Reliability		
					Brightness & Color Performance	Image Blemish Prevention	Maintenance Cost Saved
DUST GUARD PRO	Expert Dustproof System with the fully sealed engine design	Middle to High Pollution (AQI: 150+)	IP5X	PM2.5/ Chalk Dust/ Cotton Fiber/ Dust/ Hair	★★★★★	★★★★★	★★★★★
DUST GUARD	Premium Dustproof System with dust-resistant and filtering design	Low to Middle Pollution (AQI: 50-150)	IP5X	Cotton Fiber/ Dust/ Hair	★★★★	★★★	★★★★
BenQ Education Projectors	Advanced Dustproof Solution with anti-dust accumulation components	Normal Air Quality (AQI: 0-50)	N/A	N/A	★★★	★★★	★★★

DLP Technology for Lasting Image Quality for Today and Tomorrow

▷ ## DLP Technology Strengthens Projected Image Quality

Long-Lasting Picture Quality

With a sealed engine design that protects the DLP chip from dust-induced image degradation and the industrial-grade durability of DLP projection technology, BenQ education projectors are capable of maintaining long-lasting picture quality by preventing color decay. Unlike non-DLP projectors, BenQ education projectors deliver premium picture quality equivalent to the results from brand new projectors after lamp replacement.

Non-DLP Projector

Original Color   After 2000hrs of Use   After New Lamp Installed

BenQ DLP Projector

Original Color   After 2000hrs of Use   After New Lamp Installed

High Pixel Fill Factor for a Superb Viewing Experience

BenQ DLP projectors feature the class-leading high fill factor, minimizing black borders around each pixel to eliminate the dreaded "screen door effect" commonly observed in non-DLP projectors. BenQ education projectors produce superior definition and clarity in small-size text and fine details for beautifully rendered images instead of pixelated graphics.

Non-DLP Projector

BenQ DLP Projector
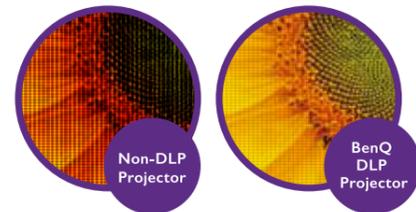
High Contrast Ratio for Crisp Readability

Ideal for projecting text, numbers, and tables widely used in teaching materials, BenQ education projectors leverage the native DLP advantage of digitally controlled micro-mirrors on the DLP chip. By completely toggling off reflective micro-mirrors to generate deep true blacks, BenQ education projectors create high native contrast ratio for sharp readability and crisp resolution at every single sub-pixel.

Non-DLP Projector

BenQ DLP Projector
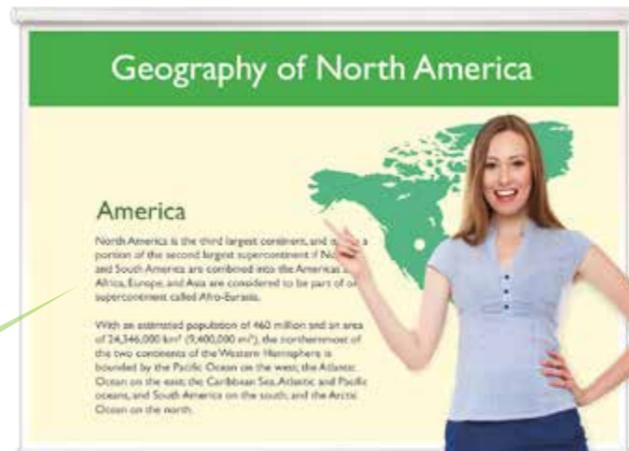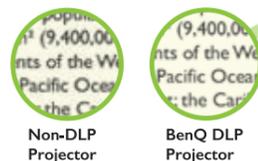
▷ ## Striking Picture Performance Creates Memorable Lessons

Spectacular High Brightness for Bright Lecture Room

BenQ's education projectors produce high ANSI lumen brightness and resolution for perfect projection performance with crisp images and sharp text even in bright lecture rooms. High brightness provides clear content under high ambient lighting, allowing lights to be kept on during classes for note taking and interactive collaboration.

Image Uniformity Enhancement

BenQ's next-generation Total Internal Reflection (TIR) optical architecture eliminates uneven brightness distribution of conventional projection, precisely focusing the center and corners of the image to enhance corner uniformity by 30% and even out brightness uniformity for a smooth, comfortable viewing experience.

Image uniformity without TIR prism

Image uniformity with TIR prism

▷ ## Exclusive SmartEco™ Technology Maximizes Smart Educational Investment

Extended Lamp Life up to 15,000 hours under Traditional Lamp Light Source

The exclusive BenQ innovation, SmartEco™ technology, intelligently modulates light output and perfects DLP's energy saving capabilities to increase lamp life with uncompromised brightness and exquisite picture quality. Reducing energy consumption, SmartEco™ extends lamp life up to 15,000 hours, 3X* more than without SmartEco™ technology. The Eco Blank mode further increases energy saving capability by dimming lamp power automatically to lower total power by 70% when blanking the projection.

*The lamp life under LampSave mode is three times longer than under Normal mode.

Power Consumption

100%
75%
30%

| CLASS STAGES | Initial | Lecture | Discussion | Q/A |
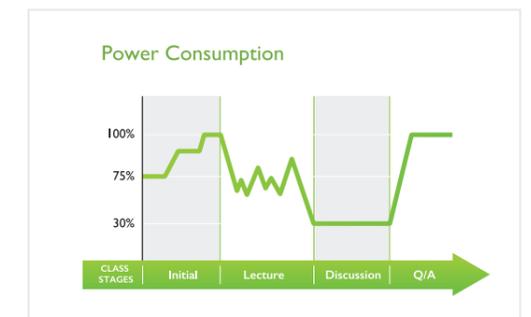
Sharp Details in Dark Scenes

BenQ's exclusive SmartEco™ Technology ingeniously adjusts light output based on content, enhancing contrast to produce richer blacks and the best possible picture quality especially important for detailed and dynamic dark scenes such as astronomy courses.
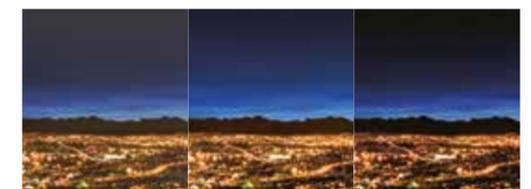
Non-DLP without SmartEco

BenQ DLP Projector Normal Mode

BenQ DLP Projector SmartEco Mode

THE WORLD'S NO.1 DLP BRAND

BenQ's Projection Solutions for Every Room In School

INTERACTIVE CLASSROOM

MEETING ROOM

LECTURE HALL

▷ **Interactive Classroom**

(Ultra) Short Throw Projectors
- ▸ High brightness
- ▸ High resolution by (ultra) short throw
- ▸ Scalable for wireless and interactive capability

▷ **Meeting Room**

Wireless Solution

InstaShow™
- ▸ Intuitive wireless streaming with no software setup
- ▸ Powerful compatibility on any platform
- ▸ Reliably stable wireless connection

QCast Mirror
- ▸ Screen mirroring with zero software
- ▸ Smooth high definition video quality
- ▸ Efficient OTA updates

Network Projectors
- ▸ High brightness
- ▸ Big zoom
- ▸ LAN control
- ▸ Low-noise operation

▷ **Lecture Hall**

Installation Projectors
- ▸ Ultra high brightness
- ▸ Big zoom
- ▸ Flexible lens shift
- ▸ HDBaseT compatibility
- ▸ Comprehensive LAN control

Spark Limitless Possibilities

Easy to integrate and extremely scalable, BenQ education laser projectors are perfect fits for interactive teaching. Smart interactive tools and intuitive setup can strengthen teacher-student collaboration and classroom engagement.

▷ Zero Space Constraints Enable Impactful and Engaging Instruction

Ultra Short Throw Projection

BenQ ultra short throw projectors can be mounted centimeters from the wall directly above the screen, eliminating distracting shadows and glare for students and teachers to engage and collaborate freely in front of the board.

* Ultra Short Throw: available on LH890UST/ LW890UST/ LX890UST/ MW864UST/ MX863UST/ MH856UST/ MW855UST/ MX854UST/ MW843UST/ MX842UST

* Short Throw: available on LW820ST/ LX820ST/ DX825ST/ DX808ST/ LX810STD/ MW826ST/ MX825ST/ MW809ST/ MX808ST

Ultra Short Throw   Non Short Throw

HEART ANATOMY
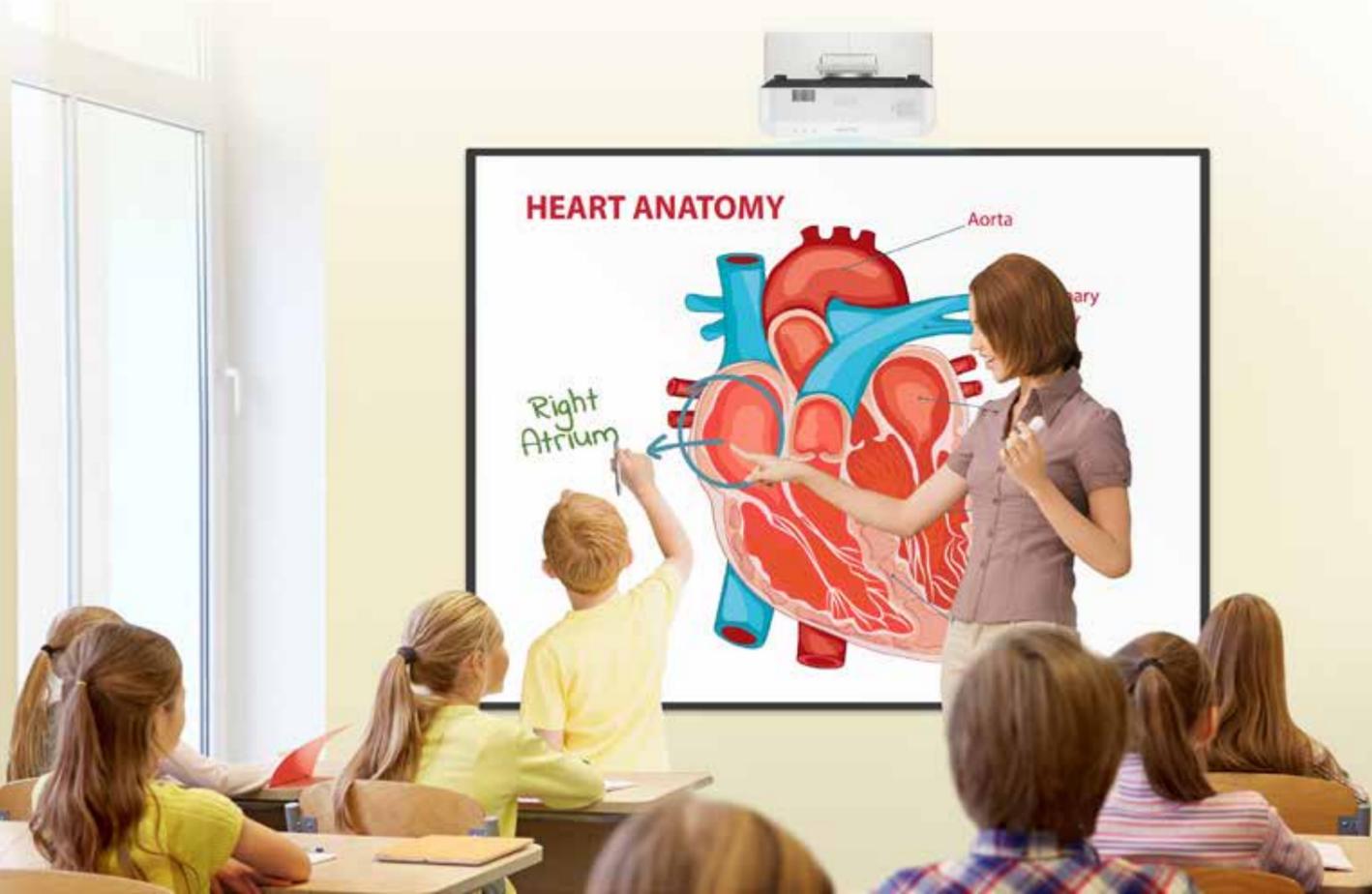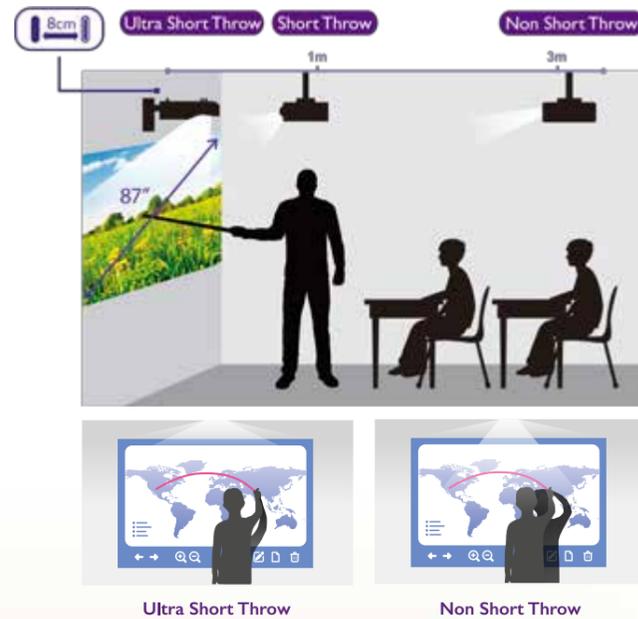
▷ Smart Interactive Tools Promote Collaborative Learning

Multi-Touch & Multi- Screen Drawing

With enhanced multi-touch capability for pens or fingers, two PointWrite™ projectors can be used in conjunction to double the interactive projection surface, creating vast new opportunities for interactive learning in modern digital classrooms. In QWrite Whiteboard Mode, teachers can also run different applications or display, view, and annotate across two surfaces.

Interaction on Any Surface

PointWrite™ technology transforms BenQ education projectors into collaborative platforms that turn any surface into an interactive whiteboard. Seamless integration of PointWrite™ kit and QWrite software with BenQ projectors encourages a truly collaborative learning environment where students and teachers work together using intuitive templates along with annotation tools.

Intuitive Setup

Reliably accurate in any ambient lighting, PointWrite™ auto calibrates and saves its settings immediately when plugged into a computer's USB port, remaining ready with no manual configuration or complicated training for teachers.

* Available on LH890UST/ LW890UST/ LX890UST/ LW820ST/ LX820ST/ DX825ST/ DX808ST/ LX810STD/ MW864UST/ MX863UST/ MH856UST/ MW855UST/ MX854UST/ MW826ST/ MX825ST/ MW809ST/ MX808ST

Step 1	Step 2	Step 3
USB Connection	PointWrite™ Auto-calibration	Setup Ok!

▷ QCast Wireless Solution Strengthens Easy BYOD Collaboration

Apart from wired MHL support, BenQ education projectors are ready for BYOD collaboration and creating more engaging lessons via QCast wireless dongle that allows up to 4 participants to stream content from smart devices or computers to the big screen, displaying them in 4 split screens.

Optimal Visual Experiences and Seamless Integration

High Brightness Ensures Superior Viewing Experiences in Large Venues

BenQ high-lumen projectors engage students with a superior viewing experience, even in brightly lit auditoriums, seminar rooms, and lecture halls.

Versatile Adjustment Features Offer Installation Flexibility

Big Zoom

Big Zoom frees up space with an impressive range of throw distances and projects images up to 300" wide, enabling the flexibility of placing the projector anywhere without renovation or relocation of existing projector mounts.
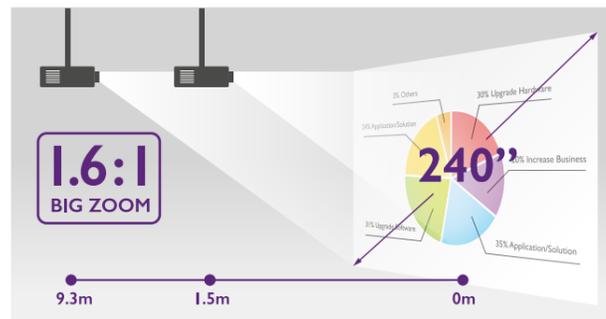
Lens Shift

To overcome installation obstacles and minor miscalculation during projector installation, the lens shift feature comes with the flexibility to adjust image placement vertically and horizontally without having to physically move the projector.

1.6:1 BIG ZOOM

240''

9.3m   1.5m   0m

Shift

Shift

HDBT™ Supported

Network Cable

PC/Laptop | Document Camera | Blue Ray DVD | Control Box | Wired Remote
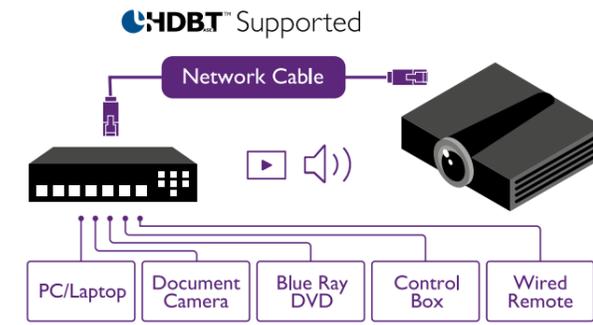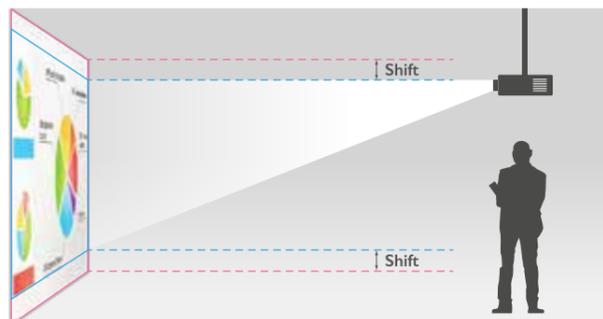
Comprehensive LAN Control Promises Effortless Management

LAN control enables IT staff to manage all projectors on campus via network, allowing full control and remote maintenance directly from a central workstation.

CRESTRON   AMX   PJLink

12F

7F

3F   Network

DICOM X-ray Imaging Diversifies Teaching Methods

DICOM (Digital Imaging and Communication in Medicine) is a standard for handling, storing, printing and transmitting medical imaging information. The DICOM Simulation Mode is ideal for viewing grayscale medical images, such as X-rays, with an advanced grayscale level that's ideal for training and educational purposes.

*Available on LU9235 / LX9215/LU950

HDBaseT Compatibility

The groundbreaking HDBaseT connectivity combines video, audio, and device control signals from multiple sources including PCs, laptops, document cameras, Blu-rays, and DVDs onto a single CAT5 cable. This ensures seamless transmissions up to 100 meters for efficient installation in auditoriums, gyms, and large halls.

*Available on LU9235/ LX9215/LU950
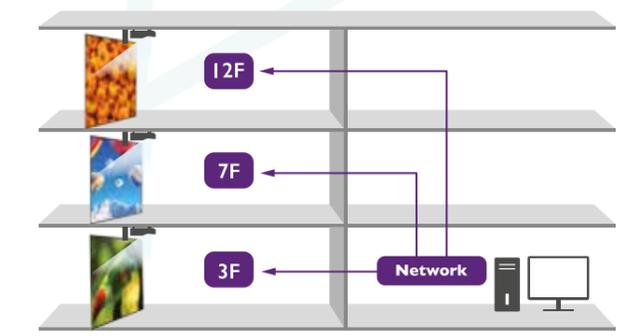
DICOM Simulation Mode   Presentation Mode

BenQ Projection Calculator Ensures Installation Convenience and Projection Accuracy

The BenQ Projection Calculator is a free online tool that simplifies installation by helping installers to calculate projector positioning and receive information on recommended screen and projection size, throw distance, and projector placement depending on different applications.

Visit BenQ projection calculator
https://projectorcalculator.benq.com/
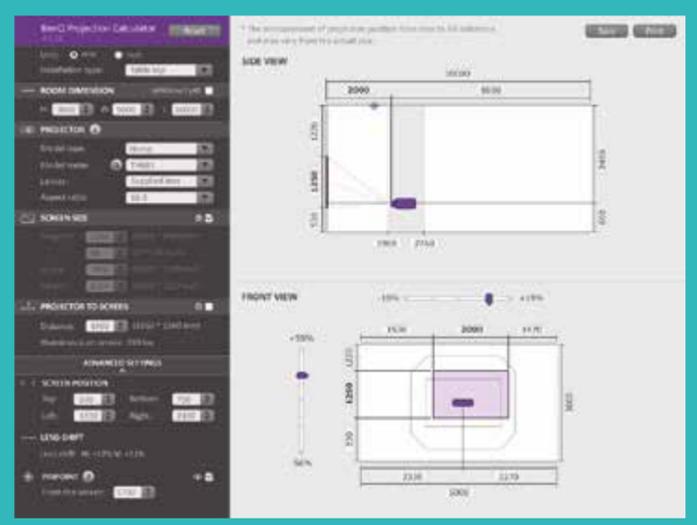
Clear, Hassle-Free Wireless Projection

▷ Big Zoom Guarantees Ultra-High Installation Flexibility

Integrated big zoom capability maximizes image size in any available education space, enabling large-scale projection from a wide range of throw distances.

1.5:1
BIG ZOOM

150"

6.6m   4.4m   0m
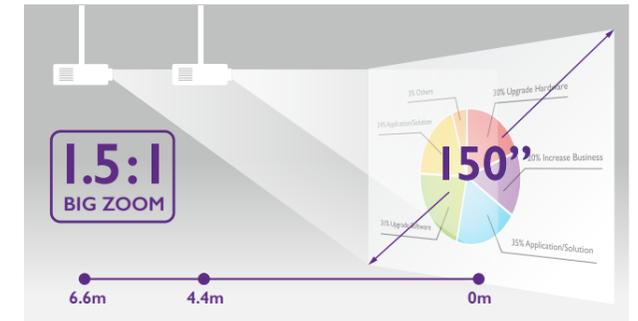
▷ LAN Control Capability Empowers Device Control and Management

BenQ meeting room projectors for education support leading LAN control systems including Crestron, AMX, and PJ-Link for simple integration into campus network infrastructures, with additional RS-232 control for reliable long-distance installations of up to 15 meters.

12F
7F
3F   Network

CRESTRON   AMX   PJLink

▷ Stunning Clarity and Ultra Quietness Create a Powerful Meeting Experience

Unlike noisy conventional high-brightness projectors, BenQ meeting room projectors produce up to 5,000 lumens of high brightness with minimal sound, even when they are fully powered on. Silent and brilliant, lessons will capture students' full attention without distraction.

▷ QCast Mirror Fulfills Instant Wireless Presentation with Effortless Setup

Screen Mirroring with Zero Software

By mirroring the screen, QCast Mirror HDMI Wireless Dongle lets meeting participants share universal file formats wirelessly from any iOS, Android, Windows, or Mac device. It facilitates the free exchange of ideas and collaborative teamwork for highly effective meetings without any downtime for configuration.

▷ Plug-and-Play Wireless Solution InstaShow™ Facilitates Wireless Presentation and Highly Interactive Group Discussion

Intuitive Streaming with No Software Setup

InstaShow™ offers a natural way for up to 16 participants to start presentations without wasting valuable class time for truly collaborative learning. A single-button solution, InstaShow™ can be plugged into the source laptop and takes mere seconds to start presenting wirelessly with zero software to install or configure.

Powerful Compatibility on Any Platform

Class content can be freely shared on any device with a standard HDMI input, utilizing instructional content from a wide range of devices such as laptops, Blu-Ray/DVD players, Apple TV, even PS4 or Xbox.

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

Flexible Installation for Painless Upgrading

▷ **Streamlined Wall Mount Alignment Ensures Precise Projection**

An installation chart and ruler come with wall mounts for BenQ ultra short throw projectors, offering perfect screen alignment and image position in classrooms. Even simpler, a three-way adjustment knob is located in front of the projector mount for ideal and precise projection.

Easy Slide in

Adjustable

+7.5cm

+3cm

▷ **Advanced Image Calibration Ensures Ideal Projection Alignment**

Digital Shrink

BenQ education projectors come with the digital shrink feature that can fine-tune screen sizes and perfectly align projection on the desired frame. It facilitates simple adjustment through OSD menu to significantly save setup time and avoid the need to physically adjust projector installation.

*Available on LH890UST/ LW890UST/ LX890UST/ LW820ST/ LX820ST/ DX825ST/ DX808ST/ MW826ST/ MX825ST/ MW809ST/ MX808ST

Before Digital Shrink   After Digital Shrink

Corner Fit Correction

Even professional installations can be challenged by restricted or uneven spaces. Corner Fit provides flexible and convenient correction of picture dimensions via individual alignment of each corner.

*Available on LH890UST/ LW890UST/ LX890UST/ MW864UST/ MX863UST/ MH856UST/ MW855UST/ MX854UST/ SX751/ SU754/ LX720/ LW720/ LH720/ SX765/ SU765/ SU922+/ LX770/ LH770/ LU950/ LU9235/ LX9215

Without Corner Fit Correction   With Corner Fit Correction

Effortless Management System Integration and Simple Maintenance

▷ **High System Compatibility Fulfills System Integration and Effortless Maintenance**

BenQ education projectors are compatible with Creston, AMX, and PJ Link control systems for convenient system integration with various third-party devices, which helps to reduce maintenance cost via centralized management of multiple projectors.

*Extron compatibility: available on DX825ST/ MW826ST/ MX825ST. Developed by Extron, IP Link driver allows device monitoring, control, and support over LAN when MediaLink controller, IP Link Ethernet control interface, or other IP Link-enabled device is installed. For more information, please visit www.extron.com/driverdownloads

AMX   PJLink   CRESTRON   Extron IP LINK CERTIFIED

▷ **BenQ's MDA Software Enables Centralized Multiple Display Management**

Helping IT managers efficiently perform day-to-day maintenance, the BenQ Multiple Display Administrator (MDA) software dashboard enables powerful centralized monitoring, control, and power scheduling across a school's display network from a single computer, offering full access and control over every device directly.

Available on LX890UST / LW820ST / LX820ST / DX825ST / DX808ST / LX810STD / MW864UST / MX863UST / MW843UST / MX842UST / MW826ST / MX825ST / MW809ST / MX808ST / SX751 / SU754 / LX720 / LW720 / LH720 / SX765 / SU765 / SU922+ / LX770 / LH770 / LU950 / LU9235 / LX9215

MDA SOFTWARE

Classroom B

Classroom C

Classroom A

Classroom D

BenQ MDA Software

Power On/off   Task Management   Identification
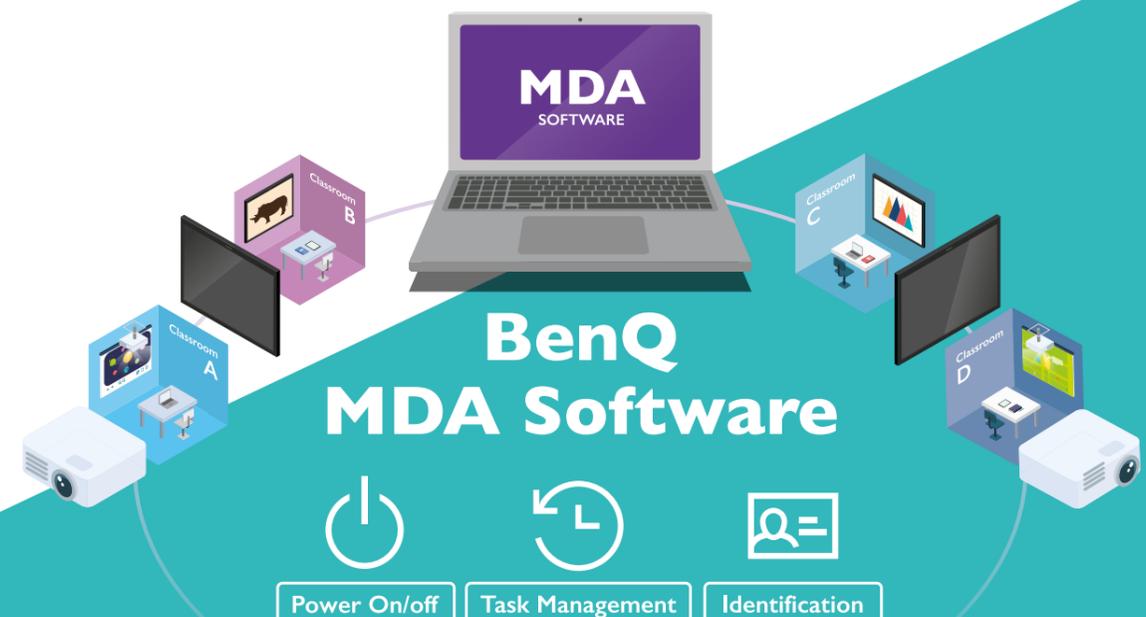
Interactive Classroom

	Model	LH890UST	LW890UST	LX890UST	LW820ST	LX820ST	LX810STD
Display	Projection System	DLP Single 0.65" Full HD	DLP Single 0.65" WXGA	DLP Single 0.55" XGA	DLP Single 0.65" WXGA	DLP Single 0.55" XGA	DLP Single 0.55" XGA
	DMD Chip	DC3 DMD chip	DC3 DMD chip	DC3 DMD chip	DC3 DMD chip	DC3 DMD chip	DC3 DMD Chip
	Resolution	1920 x 1080 pixels	1280 x 800 pixels	1024 x 768 pixels	1280 x 800 pixels,	1024 x 768 pixels,	1024 x 768 pixels
	Brightness	4,000 Lumens	4,000 Lumens	4,000 Lumens	3,500 Lumens	3,500 Lumens	3,000 Lumens
	Contrast Ratio	100,000:1	100,000:1	100,000:1	100,000:1	100,000:1	100,000:1
	Display Color	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)
	Aspect Ratio	Native 16:9 (5 aspect ratio selectable)	Native 16:10 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)	Native 16:10 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)
	Light Source	Laser	Laser	Laser	Laser	Laser	Laser
	Light Source Life*	Normal 20000 hrs	Normal 20000 hrs	Normal 20000 hrs	Normal 20000 hrs	Normal 20000 hrs	20,000/25,000 hours (Normal/Eco mode)
Optical	Throw Ratio	0.23	0.24	0.3	0.52	0.65	0.61
	Zoom Ratio	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
	Lens	F/# = 2.4, f = 3.35 mm	F/# = 2.4, f = 3.35 mm	F/# = 2.4, f = 3.35 mm	F/# = 2.79, f = 7.46 mm	F/# = 2.79, f = 7.46 mm	F/#=2.6, f=6.9mm
	Lens Shift	N/A	N/A	N/A	N/A	N/A	N/A
	Keystone Correction	2D keystone, Vertical ± 20 & Horizontal ± 20 degrees,	2D keystone, Vertical ± 20 & Horizontal ± 20 degrees,	2D keystone, Vertical ± 20 & Horizontal ± 20 degrees,	1D, Vertical ± 30 degrees	1D, Vertical ± 30 degrees	1D; Vertical ± 40 degrees
	Lens Control	Manual Focus	Manual Focus	Manual Focus	Manual Focus	Manual Focus	Manual Focus
	Projection Offset**	118.80%	117.30%	120%	106.1 +/- 2.5%	108.4 +/- 2.5%	115%
	Projection Size (Diagonal)	81"~121"	80"~119"	73"~101"	60"~120"	60"~120"	60"~120"
Audio	Built-in Speaker	10W x1	10W x1	10W x1	10W x1	10W x1	20W (10Wx2)
Special Feature	Security	Kensington anti-theft lock slot	Kensington anti-theft lock slot	Kensington anti-theft lock slot	Security Bar,Kensington anti-theft lock slot	Security Bar,Kensington anti-theft lock slot	
Connectivity	I/O Port	HDMI-1 x1 HDMI-2/MHL x1 PC (D-sub 15pin) x1 Monitor out (D-sub 15pin,Female) x1 Composite Video in (RCA) x1 S-Video in x1 Audio in(mini jack) x1 Audio L/R in (RCA) x1 Audio out (mini jack) x1 LAN Port(RJ45 for Network) x1 RS232 In (D-sub 9pin, male) x1 USB TypeA (5V,1.5A) x1 USB Type mini B (For service) x1 USB Type mini B (For PointWrite module) x1 IR Receiver(Front) x1	HDMI-1 x1 HDMI-2/MHL x1 PC (D-sub 15pin,Female) x1 Monitor out (D-sub 15pin,Female) x1 Composite Video in (RCA) x1 S-Video in x1 Audio in(mini jack) x1 Audio L/R in (RCA) x1 Audio out (mini jack) x1 LAN Port(RJ45 for Network) x1 RS232 In (D-sub 9pin, male) x1 USB TypeA (5V,1.5A) x1 USB Type mini B (For service) x1 USB Type mini B (For PointWrite module) x1 IR Receiver(Front) x1	HDMI-1 x1 HDMI-2/MHL x1 PC (D-sub 15pin) x1 Monitor out (D-sub 15pin,Female) x1 Composite Video in (RCA) x1 S-Video in x1 Audio in(mini jack) x1 Audio L/R in (RCA) x1 Audio out (mini jack) x1 LAN Port(RJ45 for Network) x1 RS232 In (D-sub 9pin, male) x1 USB TypeA (5V,1.5A) x1 USB Type mini B (For service) x1 USB Type mini B (For PointWrite module) x1 IR Receiver(Front) x1	HDMI-1 x1 HDMI-2/MHL x1 PC (D-sub 15pin) x1 Monitor out (D-sub 15pin,Female) x1 Composite Video in (RCA) x1 S-Video in x1 Audio in(mini jack) x1 Audio L/R in (RCA) x1 Audio out (mini jack) x1 LAN Port(RJ45 for Network) x1 RS232 In (D-sub 9pin, male) x1 USB TypeA (5V,1.5A) x1 USB Type mini B (For service) x1 IR Receiver(Front) x2	HDMI-1 x1 HDMI-2/MHL x1 PC (D-sub 15pin) x1 Monitor out (D-sub 15pin,Female) x1 Composite Video in (RCA) x1 S-Video in x1 Audio in(mini jack) x1 Audio L/R in (RCA) x1 Audio out (mini jack) x1 LAN Port(RJ45 for Network) x1 RS232 In (D-sub 9pin, male) x1 USB TypeA (5V,1.5A) x1 USB Type mini B (For service) x1 IR Receiver(Front) x2	HDMI x2 (share with MHL x1) PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Composite Video In (RCA) x1 S-Video In x1 Audio In (mini jack) x2 Audio L/R In (RCA) x 1 Audio Out (mini jack) x 1 LAN RJ45 x 1 (LAN control/ LAN display) RS232 (DB-9pin) x1 USB (type A) x1 (5V/1.5A power supply) USB (type mini B) x1
Compatibility	Resolution Support	VGA(640 x 480) to WUXGA_RB(1920 x 1200) *RB-Reduced Blanking	VGA(640 x 480) to WUXGA_RB(1920 x 1200) *RB-Reduced Blanking	VGA(640 x 480) to WUXGA_RB(1920 x 1200) *RB-Reduced Blanking	VGA(640 x 480) to WUXGA_RB(1920 x 1200) *RB=Reduced blanking	VGA(640 x 480) to WUXGA_RB(1920 x 1200) *RB=Reduced blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking
	Horizontal Frequency	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz
	Vertical Scan Rate	23~120 Hz	23~120 Hz	23~120 Hz	23~120 Hz	23~120Hz	23~120 Hz
	HDTV Compatibility	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i;480p;576i;576p;720p;1080i,;1080p	480i, 480p, 576i, 720p, 1080i, 1080p
	Video Compatibility	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC;PAL;SECAM	NTSC, PAL, SECAM
Power	Power Consumption(Normal)	Typical 358 W	Typical 358 W	Typical 358 W	Typical 283W	Typical 283W	Typical 300W
	Standby Power Consumption	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W
	Power Supply	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz
Dimension and Weight	Product Dimensions (WxHxD)	502.1x 164.5 x 399.3 mm	502.1x 164.5 x 399.3 mm	502.1x 164.5 x 399.3 mm	410 x 158 x 272 mm	410 x 158 x 272 mm	415.5x298x149.6 mm (w/ dust filter)
	Product Weight	9.06 kg	9.06 kg	9.06 kg	5.6 kg	5.6 kg	5.6 kg
Operation Condition	Noise Level (Normal/Eco)	35/32 dBA (without dust filter) 37/34 dBA (with dust filter)	35/32 dBA (without dust filter) 37/34 dBA (with dust filter)	35/32 dBA (without dust filter) 37/34 dBA (with dust filter)	33/29 dBA (without dust filter) 35/31 dBA (with dust filter)	33/29 dBA (without dust filter) 35/31 dBA (with dust filter)	39/36 dBA
	Operating Temperature	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C
Accessories	Accessories (Standard)	Power Cord (by region) Remote Control w/ Battery (RCA022) VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region) Wall mount (WM03G6)	Power Cord (by region) Remote Control w/ Battery (RCA022) VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region) Wall mount (WM03G6)	Power Cord (by region) Remote Control w/ Battery (RCA022) VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region) Wall mount (WM03G6)	Power Cord (by region) Remote Control w/ Battery (RCE015) VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region)	Power Cord (by region) Remote Control w/ Battery (RCE015) VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region)	Power Cord (by region) Remote Control w/ Battery RCS011 VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region) Dust filter (assembled)
	Accessories (Optional)	3D Glasses (5J.J9H25.002) PointWrite Kit: PW40U (5A.JJR26.10E) Wireless Dongle - QCast Mirror QP20 (5A.JH328.10X) Wireless Dongle - QCast QP01 (5J.JCK28.X01) InstaShow™ (WDC10) 3mm Dust Filter (FTFS02)	3D Glasses (5J.J9H25.002) PointWrite Kit: PW40U (5A.JJR26.10E) Wireless Dongle - QCast Mirror QP20 (5A.JH328.10X) Wireless Dongle - QCast QP01 (5J.JCK28.X01) InstaShow™ (WDC10) 3mm Dust Filter (FTFS02)	3D Glasses (5J.J9H25.002) PointWrite Kit: PW40U (5A.JJR26.10E) Wireless Dongle - QCast Mirror QP20 (5A.JH328.10X) Wireless Dongle - QCast QP01 (5J.JCK28.X01) InstaShow™ (WDC10) 3mm Dust Filter (FTFS02)	3D Glasses (5J.J9H25.002) PointWrite Kit: PW02 (5J.J9AR26.12E) Wireless Dongle - QCast Mirror QP20 (5A.JH328.10X) Wireless Dongle - QCast QP01 (5J.JCK28.X01) 3mm Dust Filter -FTFS01 Wall mount (WM06G3)	3D Glasses (5J.J9H25.002) PointWrite Kit: PW02 (5J.J9AR26.12E) Wireless Dongle - QCast Mirror QP20 (5A.JH328.10X) Wireless Dongle - QCast QP01 (5J.JCK28.X01) 3mm Dust Filter -FTFS01 Wall mount (WM06G3)	3D Glasses DGD5 (5J.J9H25.002) PointWrite Kit PW02 (5J.J9A26.12E) PointWrite Touch Module PT12 (5J.J8L26.13E) Wall Mount (WM06G3)
OSD	On Screen Display Language	Arabic/Bulgarian/ Croatian/ Czech/ Danish/ Dutch/ English/ Finnish/ French/ German/ Greek/ Hindi/ Hungarian/ Italian/ Indonesian/Japanese/ Korean/ Norwegian/ Polish/ Portuguese/ Romanian/ Russian/ Simplified Chinese/ Spanish/ Swedish/ Turkish/Thai/TraditionalChinese (28 Languages)			Arabic/ Bulgarian/ Croatian/ Czech/ Danish/ Dutch/ English/ Finnish/ French/ German/ Greek/ Hindi/ Hungarian/ Italian/ Indonesian/ Japanese/ Korean/ Norwegian /Persian/ Polish/ Portuguese/ Romanian/ Russian/ Simplified Chinese/ Spanish/ Swedish/ Turkish/ Thai/ Traditional Chinese/ Vietnam (30 languages)		Arabic/ Bulgarian/ Croatian/ Czech/ Danish/ Dutch/ English/ Finnish/ French/ German/ Greek/ Hindi/ Hungarian/ Italian/ Indonesian/ Japanese/ Korean/ Norwegian/ Polish/ Portuguese/ Romanian/ Russian/ Simplified Chinese/ Spanish/ Swedish/ Turkish/ Thai/ TraditionalChinese (28 Languages)

*Light source life results will vary depending on environmental conditions and usage. Actual product's features and specifications are subject to change without notice. **Offset is calculated by full-screen height.

Interactive Classroom

	Model	MW864UST	MX863UST	MH856UST	MW855UST	MX854UST	MW843UST	MX842UST
Display	Projection System	DLP Single 0.65" WXGA	DLP Single 0.55" XGA	DLP Single 0.65" Full HD	DLP Single 0.65" WXGA	DLP Single 0.55" XGA	DLP Single 0.65" WXGA	DLP Single 0.55" XGA
	DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip
	Resolution	1280 x 800 pixels	1024 x 768 pixels	1920 x 1080 pixels	1280 x 800 pixels	1024 x 768 pixels	1280 x 800 pixels	1024 x 768 pixels
	Brightness	3,300 Lumens	3,300 Lumens	3,500 Lumens	3,500 Lumens	3,500 Lumens	3,000 Lumens	3,000 Lumens
	Contrast Ratio	13,000:1	13,000:1	10,000:1	10,000:1	10,000:1	13,000:1	13,000:1
	Display Color	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)
	Aspect Ratio	Native 16:10 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)	Native 16:9 (6 aspect ratio selectable)	Native 16:10 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)	Native 16:10 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)
	Light Source	Lamp (240W)	Lamp (240W)	Lamp (280W)	Lamp (240W)	Lamp (240W)	Lamp (240W)	Lamp (240W)
	Light Source Life*	3000/4000/6000 hours (Normal/Eco/SmartEco mode)	3000/4000/6000 hours (Normal/Eco/SmartEco mode)	4000/5000/7000 hours (Normal/Eco/SmartEco mode)	3000/4000/6000 hours (Normal/Eco/SmartEco mode)	3000/4000/6000 hours (Normal/Eco/SmartEco mode)	3500/5000/7000 hours (Normal/Eco/SmartEco mode)	3500/5000/7000 hours (Normal/Eco/SmartEco mode)
Optical	Throw Ratio	0.233	0.292	0.33	0.35	0.43	0.37	0.47
	Zoom Ratio	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
	Lens	F/#=2.4 , f= 3.35	F/#=2.4 , f= 3.35	F/#=2.5, f=5.1mm	F/#=2.5, f=5.1mm	F/#=2.5, f=5.1mm	F/#=2.53, f=5.38mm	F/#=2.53, f=5.38 mm
	Lens Shift	N/A	N/A	N/A	Vertical: ±2 %	Vertical: ±2 %	N/A	N/A
	Keystone Correction	2D, Vertical ± 30 degrees, Horizontal ± 25 degrees	2D, Vertical ± 30 degrees, Horizontal ± 25 degrees	2D, Vertical/ Horizontal ±15 degrees	2D, Vertical/ Horizontal ±15 degrees	2D, Vertical/ Horizontal ±15 degrees	1D; Vertical ± 15 degrees	1D; Vertical ± 15 degrees
	Lens Control	Manual Focus	Manual Focus	Manual Focus	Manual Focus	Manual Focus	Manual Focus	Manual Focus
	Projection Offset**	115%	117.5%	125%	122%	120%	123.5%	126.5%
	Projection Size (Diagonal)	87"~120"	78"~100"	88.8"~110"	80"~100"	68"~85"	64"~120"	60"~120"
Audio	Built-in Speaker	20W (10Wx2)	20W (10Wx2)	20W (10Wx2)	20W (10Wx2)	20W (10Wx2)	20W (10Wx2)	20W (10Wx2)
Special Feature	Security	Security Bar, Kensington anti-theft lock slot	Security Bar, Kensington anti-theft lock slot	Security Bar, Kensington anti-theft lock slot	Security Bar, Kensington anti-theft lock slot	Security Bar, Kensington anti-theft lock slot	Security Bar, Kensington anti-theft lock slot	Security Bar, Kensington anti-theft lock slot
Connectivity	I/O Port	HDMI x2 (share with MHL x1) PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Composite Video In (RCA) x1 S-Video In x1 Audio In (mini jack) x2 Audio L/R In (RCA) x1 Audio Out (mini jack) x1 LAN RJ45 x1 (LAN control) RS232 (DB-9pin) x1 USB (type A) x1 (power only 5V/1.5A) USB (type mini B) x2 USB mini B-1: PointWrite Camera USB mini B-2: FW Download IR Receiver x1 (front)	HDMI x2 (share with MHL x1) PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Composite Video In (RCA) x1 S-Video In x1 Audio In (mini jack) x2 Audio L/R In (RCA) x1 Audio Out (mini jack) x1 LAN RJ45 x1 (LAN control) RS232 (DB-9pin) x1 USB (type A) x1 (power only 5V/1.5A) USB (type mini B) x2 USB mini B-1: PointWrite Camera USB mini B-2: FW Download IR Receiver x1 (front)	HDMI x2 (share with MHL x1) PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Composite Video In (RCA) x1 S-Video In x1 Audio In (mini jack) x1 Audio L/R In (RCA) x 1 Audio Out (mini jack) x 1 LAN RJ45 x 1 (LAN control) RS232 (DB-9pin) x1 USB (type A) x1 (5V/2A power supply) USB (type B) x1 (firmware download) USB (type mini B) x1 (optional interactive camera) IR Receiver x1 (front)	HDMI x2 (share with MHL x1) PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Composite Video In (RCA) x1 S-Video In x1 Audio In (mini jack) x1 Audio L/R In (RCA) x 1 Audio Out (mini jack) x 1 LAN RJ45 x 1 (LAN control) RS232 (DB-9pin) x1 USB (type A) x1 (5V/2A power supply) USB (type B) x1 (firmware download) USB (type mini B) x1 (optional interactive camera) IR Receiver x1 (front)	HDMI x2 (share with MHL x1) PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Composite Video In (RCA) x1 S-Video In x1 Audio In (mini jack) x1 Audio L/R In (RCA) x 1 Audio Out (mini jack) x 1 LAN RJ45 x 1 (LAN control) RS232 (DB-9pin) x1 USB (type A) x1 (5V/2A power supply) USB (type B) x1 (firmware download) USB (type mini B) x1 (optional interactive camera) IR Receiver x1 (front)	HDMI x1 PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Composite Video In (RCA) x1 S-Video In x1 Audio In (mini jack) x2 Audio L/R In (RCA) x1 Audio Out (mini jack) x1 LAN RJ45 x1 (LAN control) RS232 (DB-9pin) x1 USB (type mini B) x1 (FW download) IR Receiver x2 (front, top) Microphone In (mini jack) x 1 DC 12V Trigger (3.5mm Jack)x 1	HDMI x1 PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Composite Video In (RCA) x1 S-Video In x1 Audio In (mini jack) x2 Audio L/R In (RCA) x1 Audio Out (mini jack) x1 LAN RJ45 x1 (LAN control) RS232 (DB-9pin) x1 USB (type mini B) x1 (firmware download) IR Receiver x2 (front, top) Microphone In (mini jack) x 1 DC 12V Trigger (3.5mm Jack)x 1
Compatibility	Resolution Support	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking
	Horizontal Frequency	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz
	Vertical Scan Rate	23~120 Hz	23~120 Hz	23~120 Hz	23~120 Hz	23~120 Hz	23~120 Hz	23~120 Hz
	HDTV Compatibility	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
	Video Compatibility	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM
Power	Power Consumption(Normal)	Typical 353W	Typical 353W	Typical 380W	Typical 320W	Typical 320W	Typical 295W	Typical 295W
	Standby Power Consumption	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<3W, Standby<0.5W	Network Standby<3W, Standby<0.5W	Network Standby<3W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W
	Power Supply	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz
Dimension and Weight	Product Dimensions (WxHxD)	382 x145 x 435 mm	382 x145 x 435 mm	287.5x201x373.3 mm (w/ mirror)	287.5x201x373.3 mm (w/ mirror)	287.5x201x373.3 mm (w/ mirror)	339x236.9x322.8 mm (w/ mirror)	339x236.9x322.8 mm (w/ mirror)
	Product Weight	6.27 kg	6.27 kg	5 kg (w/o wall mount plate)	5 kg (w/o wall mount plate)	5 kg (w/o wall mount plate)	5.5 kg (w/o wall mount plate)	5.5 kg (w/o wall mount plate)
Operation Condition	Noise Level (Normal/Eco)	35/29 dBA	35/29 dBA	34/29 dBA	34/29 BA	34/29 dBA	36/30 dBA	36/30 dBA
	Operating Temperature	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C
Accessories	Accessories (Standard)	Power Cord (by region) Remote Control w/ Battery RCS011 VGA (D-sub 15pin) Cable Quick Start Guide Warranty Card (by region) Wall Mount Kit (WM03G5)	Power Cord (by region) Remote Control w/ Battery RCS011 VGA (D-sub 15pin) Cable Quick Start Guide Warranty Card (by region) Wall Mount Kit (WM03G5)	Power Cord (by region) Remote Control w/ Battery RCS011 VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region) Wall Mount Kit (WM04G4)	Power Cord (by region) Remote Control w/ Battery RCS011 VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region) Wall Mount Kit (WM04G4)	Power Cord (by region) Remote Control w/ Battery RCS011 VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region) Wall Mount Kit (WM04G4)	Power Cord (by region) Remote Control w/ Battery RCE012 VGA (D-sub 15pin) Cable User Manual CD , Quick Start Guide Warranty Card (by region) Wall Mount Kit (WM04G4I)	Power Cord (by region) Remote Control w/ Battery RCE012 VGA (D-sub 15pin) Cable User Manual CD , Quick Start Guide Warranty Card (by region) Wall Mount Kit (WM04G4I)
	Accessories (Optional)	Spare Lamp Kit (5J.JDM05.001) 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E) PointWrite Kit PW21U (5J.JDN26.11E) PointWrite Touch Module PT12 (5J.J8L26.13E)	Spare Lamp Kit (5J.JDM05.001) 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E) PointWrite Kit PW21U (5J.JDN26.11E) PointWrite Touch Module PT12 (5J.J8L26.13E)	Spare Lamp Kit (5J.JDT05.001) 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E) PointWrite Kit PW01U (5J.J8L26.20E) PointWrite Touch Module PT12 (5J.J8L26.13E)	Spare Lamp Kit (5J.JDT05.001) 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E) PointWrite Kit PW01U (5J.J8L26.20E) PointWrite Touch Module PT12 (5J.J8L26.13E)	Spare Lamp Kit (5J.JDT05.001) 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E) PointWrite Kit PW01U (5J.J8L26.20E) PointWrite Touch Module PT12 (5J.J8L26.13E)	Spare Lamp Kit (5J.JCA05.001) 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E)	Spare Lamp Kit (5J.JCA05.001) 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E)
OSD	On Screen Display Language	Arabic/ Bulgarian/ Croatian/ Czech/ Danish/ Dutch/ English/ Finnish/ French/ German/ Greek/ Hindi/ Hungarian/ Italian/ Indonesian/ Japanese/ Korean/ Norwegian/ Polish/ Portuguese/ Romanian/ Russian/ Simplified Chinese/ Spanish/ Swedish/ Turkish/ Thai/ Traditional Chinese (28 languages)						

*Light source life results will vary depending on environmental conditions and usage. Actual product's features and specifications are subject to change without notice. **Offset is calculated by full-screen height.

Interactive Classroom

	Model	MW826ST	MX825ST	MW809ST	MX808ST	DX825ST	DX808ST
Display	Projection System	DLP Single 0.65" WXGA	DLP Single 0.55" XGA	DLP Single 0.65" WXGA	DLP Single 0.65" XGA	DLP Single 0.55" XGA	DLP Single 0.55" XGA
	DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip
	Resolution	1280 x 800 pixels	1024 x 768 pixels	1280 x 800 pixels	1024 x 768 pixels	1024 x 768 pixels	1024 x 768 pixels
	Brightness	3,400 Lumens	3,300 Lumens	3,000 Lumens	3,000 Lumens	3,300 ANSI Lumens	3,000 Lumens
	Contrast Ratio	20,000:1	20,000:1	20,000:1	20,000:1	20,000:1	20,000:1
	Display Color	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)
	Aspect Ratio	Native 16:10 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)	Native 16:10 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)
	Light Source	Lamp (200W)	Lamp (200W)	Lamp (200W)	Lamp (200W)	Lamp (200W)	Lamp (200W)
	Light Source Life*	5000/10000/10000/15000 hours (Normal/Eco/SmartEco mode/Lampsave)	5000/10000/10000/15000 hours (Normal/Eco/SmartEco mode/Lampsave)	5000/10000/10000/15000 hours (Normal/Eco/SmartEco mode/Lampsave)	5000/10000/10000/15000 hours (Normal/Eco/SmartEco mode/Lampsave)	5000/10000/10000/15000 hours (Normal/Eco/SmartEco mode/Lampsave)	5000/10000/10000/15000 hours (Normal/Eco/SmartEco mode/Lampsave)
Optical	Throw Ratio	0.49	0.61	0.49	0.61	0.61	0.61
	Zoom Ratio	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
	Lens	F/#=2.6, f=6.9 mm	F/#=2.6, f=6.9 mm	F/#=2.6, f=6.9 mm	F/#=2.6, f=6.9 mm	F/#=2.6 ; f=6.9 mm	F/#=2.6 ; f=6.9 mm
	Lens Shift	N/A	N/A	N/A	N/A	N/A	N/A
	Keystone Correction	1D, Vertical ± 30 degrees	1D, Vertical ± 30 degrees	1D, Vertical ± 30 degrees	1D, Vertical ± 30 degrees	1D, Vertical ± 30 degrees	1D, Vertical ± 30 degrees
	Lens Control	Manual Focus	Manual Focus	Manual Focus	Manual Focus	Manual Focus	Manual Focus
	Projection Offset**	105%	115%	105%	115%	115%	115%
	Projection Size (Diagonal)	70"~120"	60"~120"	70"~120"	60"~120"	60"~120"	60"~120"
Audio	Built-in Speaker	10W x1	10W x1	10W x1	N/A	10W x1	NA
Special Feature	Security	Security Bar, Kensington anti-theft lock slot	Security Bar, Kensington anti-theft lock slot	Security Bar, Kensington anti-theft lock slot	Security Bar, Kensington anti-theft lock slot	Security Bar, Kensington anti-theft lock slot	Security Bar, Kensington anti-theft lock slot
Connectivity	I/O Port	HDMI x2 (share with MHL x1) PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Composite Video In (RCA) x1 S-Video In x1 Audio In (mini jack) x2 Audio L/R In (RCA) x1 Audio Out (mini jack) x1 LAN RJ45 x1 (LAN control) RS232 (DB-9pin) x1 USB (type A) x1 (power only 5V/1.5A) USB (type mini B) x1 IR Receiver x2 (front, top)	HDMI x2 (share with MHL x1) PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Composite Video In (RCA) x1 S-Video In x1 Audio In (mini jack) x2 Audio L/R In (RCA) x1 Audio Out (mini jack) x1 LAN RJ45 x1 (LAN control) RS232 (DB-9pin) x1 USB (type A) x1 (power only 5V/1.5A) USB (type mini B) x1 IR Receiver x2 (front, top)	HDMI x1 PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Audio In (mini jack) x2 Audio Out (mini jack) x1 RS232 (DB-9pin) x1 USB (type A) x1 (power only 5V/1.5A) USB (type mini B) x1 IR Receiver x2 (front, top)	HDMI x1 PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 RS232 (DB-9pin) x1 USB (type A) x1 (power only 5V/1.5A) USB (type mini B) x1 IR Receiver x2 (front, top)	HDMI x2 (share with MHL x1) PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 Composite Video In (RCA) x1 S-Video In x1 Audio In (mini jack) x2 Audio L/R In (RCA) x1 Audio Out (mini jack) x1 LAN RJ45 x1 (LAN control) RS232 (DB-9pin) x1 USB (type A) x1 (power only 5V/1.5A) USB (type mini B) x1 IR Receiver x2 (front, top)	HDMI x1 PC In (D-sub 15pin) x2 (share with component video) Monitor Out (D-sub 15pin) x1 LAN RJ45 x1 (LAN control) RS232 (DB-9pin) x1 USB (type A) x1 (power only 5V/1.5A) USB (type mini B) x1 IR Receiver x2 (front, top)
Compatibility	Resolution Support	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking
	Horizontal Frequency	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz
	Vertical Scan Rate	23~120 Hz	23~120 Hz	23~120 Hz	23~120 Hz	23~120 Hz	23~120 Hz
	HDTV Compatibility	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
	Video Compatibility	NTSC, PAL, SECAM	NTSC, PAL, SECAM	N/A	N/A	NTSC, PAL, SECAM	N/A
Power	Power Consumption(Normal)	Typical 260W	Typical 260W	Typical 260W	Typical 260W	Typical 280W	Typical 280W
	Standby Power Consumption	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Standby<0.5W	Standby<0.5W	Network Standby<2W, Standby<0.5W	Standby<0.5W
	Power Supply	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz
Dimension and Weight	Product Dimensions (WxHxD)	296 x120 x 239 mm	296 x 120 x 239 mm	296 x 120 x 239 mm	296 x 120 x 239 mm	320 x120 x 239 mm	320 x 120 x 239 mm
	Product Weight	2.6 kg	2.6 kg	2.6 kg	2.6 kg	2.7 kg	2.7 kg
Operation Condition	Noise Level (Normal/Eco)	33/29 dBA	33/29dBA	33/29 dBA	33/29 dBA	36/32 dBA	36/32 dBA
	Operating Temperature	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C
Accessories	Accessories (Standard)	Power Cord (by region) Remote Control w/ Battery RCE013 User Manual CD Quick Start Guide Warranty Card (by region)	Power Cord (by region) Remote Control w/ Battery RCE013 User Manual CD Quick Start Guide Warranty Card (by region)	Power Cord (by region) Remote Control w/ Battery RCE013 User Manual CD Quick Start Guide Warranty Card (by region)	Power Cord (by region) Remote Control w/ Battery RCE013 User Manual CD Quick Start Guide Warranty Card (by region)	Power Cord (by region) Remote Control w/ Battery (RCE013) User Manual CD Quick Start Guide Warranty Card (by region) Dust filter (assembled)	Power Cord (by region) Remote Control w/ Battery RCE013 User Manual CD Quick Start Guide Warranty Card (by region) Dust Filter (assembled)
	Accessories (Optional)	Spare Lamp Kit (5J.JGE05.001) Dust Filter (5J.JGV14.001) 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E) PointWrite Kit PW02 (5J.J9A26.12E) PointWrite Touch Module PT12 (5J.J8L26.13E) Wall Mount 5 (WM06G3)	Spare Lamp Kit (5J.JGP05.001) Dust Filter (5J.JGV14.001) 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E) PointWrite Kit PW02 (5J.J9A26.12E) PointWrite Touch Module PT12 (5J.J8L26.13E) Wall Mount (WM06G3)	Spare Lamp Kit (5J.JGE05.001) Dust Filter (5J.JGV14.001) 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E) PointWrite Kit PW02 (5J.J9A26.12E) PointWrite Touch Module PT12 (5J.J8L26.13E) Wall Mount (WM06G3)	Spare Lamp Kit (5J.JGP05.001) Dust Filter (5J.JGV14.001) 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E) PointWrite Kit PW02 (5J.J9A26.12E) PointWrite Touch Module PT12 (5J.J8L26.13E) Wall Mount (WM06G3)	Spare Lamp Kit (5J.JGP05.001) Spare Filter 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E) PointWrite Kit PW02 (5J.J9A26.12E) PointWrite Touch Module PT12 (5J.J8L26.13E) Wall Mount (WM06G3)	Spare Lamp Kit (5J.JGP05.001) Spare Filter 3D Glasses DGD5 (5J.J9H25.002) Document Camera S30 (9H.J9L78.T3E) PointWrite Kit PW02 (5J.J9A26.12E) PointWrite Touch Module PT12 (5J.J8L26.13E) Wall Mount (WM06G3)
OSD	On Screen Display Language	Arabic/ Bulgarian/ Croatian/ Czech/ Danish/ Dutch/ English/ Finnish/ French/ German/ Greek/ Hindi/ Hungarian/ Italian/ Indonesian/ Japanese/ Korean/ Norwegian /Persian/ Polish/ Portuguese/ Romanian/ Russian/ Simplified Chinese/ Spanish/ Swedish/ Turkish/ Thai/ Traditional Chinese/ Vietnam (30 languages)					

*Light source life results will vary depending on environmental conditions and usage. Actual product's features and specifications are subject to change without notice. **Offset is calculated by full-screen height.

Lecture Hall

	Model	LU9235	LX9215	LU950	LH770	LX770	SU922+	SU765	SX765
Display	Projection System	DLP Single 0.67" WUXGA	DLP Single 0.7" XGA	DLP Single 0.47" WUXGA	DLP Single 0.65" Full HD	DLP Single 0.55" XGA	DLP Single 0.67" WUXGA	DLP Single 0.67" WUXGA	DLP Single 0.7" XGA
	DMD type	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip	DC3 DMD Chip
	Resolution	1920 x 1200 pixels	1024 x 768 pixels	1920x1200 pixels	1920x1080 pixels	1024x768 pixels	1920x1200 pixels	1920x1200 pixels	1024x768 pixels
	Brightness	6,000 Lumens	6,000 Lumens	5000 Lumens	5000 Lumens	5000 Lumens	5200 Lumens	5,500 Lumens	6,000 Lumens
	Contrast Ratio	100,000:1	100,000:1	100,000:1	20000:1	20000:1	3,000:1	10000:1	10000:1
	Display Color	'30 Bits (1.07 billion colors)	'30 Bits (1.07 billion colors)	30 Bits (1.07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1.07 billion colors)	30 Bits (1.07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)
	Aspect Ratio	Native 16:10 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)	Native 16:10 (5 aspect ratio selectable)	Native 16:9 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)	Native 16:10 (5 aspect ratio selectable)	Native 16:10(5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)
	Light Source	Laser	Laser	Laser	Laser	Laser	Lamp(370W)	Lamp(330W)	Lamp(330W)
	Light Source life*	20000/38000/70000 hours (Normal/Eco/Dimming mode)	20000/38000/70000 hours (Normal/Eco/Dimming mode)	Normal 20000 hrs	Normal 20000 hrs	Normal 20000 hrs	2000/2500 hours (Normal/Eco mode)	3000/5000/6000 hours (Normal/Eco/SmartEco mode)	3000/5000/6000 hours (Normal/Eco/SmartEco mode)
Optical	Throw Ratio	LS2ST3 Wide Fix: 0.778 LS2ST1 Wide Zoom: 1.1~1.3 LS2SD2 Standard: 1.54~1.93 LS2LT1 Semi Long: 1.93~2.9 LS2LT2 Long Zoom: 3~5	LS2ST3 Wide Fix: 0.81 LS2ST1 Wide Zoom: 1.14~1.347 LS2SD2 Standard: 1.6~2 LS2LT1 Semi Long: 2~3 LS2LT2 Long Zoom: 3 .11~5.18	1.36 ~ 2.18	1.38~2.13	1.81~2.79	1.07~1.71	1.39~2.09	1.44~2.16
	Zoom Ratio	LS2ST3 Wide Fix: Fixed LS2ST1 Wide Zoom: 1.18x LS2SD2 Standard: 1.25x LS2LT1 Semi Long: 1.5x LS2LT2 Long Zoom:1.67x	LS2ST3 Wide Fix: Fixed LS2ST1 Wide Zoom: 1.18x LS2SD2 Standard: 1.25x LS2LT1 Semi Long: 1.5x LS2LT2 Long Zoom:1.67x	1.6x	1.5x	1.5x	1.6x	1.5x	1.5x
	Lens	N/A	N/A	F/# = 1.81 ~ 2.1,f = 14.3 ~ 22.9 mm	F /#= 2.42 ~ 2.98, f = 20.77 ~ 31.13 (mm)	F /#= 2.42 ~ 2.98, f = 20.77 ~ 31.13 (mm)	F/# = 2.45 ~ 3.07,f = 15.78 ~ 25.12 mm	F/#= 2.42 ~2.97, f = 20.7 ~31.05mm	F/#= 2.42 ~2.97, f = 20.7 ~ 31.05mm
	Lens shift	Vertical: -15%~55%, Horizontal: -5%~5%, Standard Lens	Vertical: -10%~50%, Horizontal: -5%~5%, Standard Lens	Vertical: ±60 %; Horizontal: ±23 %	Vertical: ±7.9%, Horizontal: ±4.8%	Vertical: ±7.8%, Horizontal: ±6.3%	Vertical: +2.5%	Vertical: +13%	Vertical: +11%
	Keystone Correction	2D, Vertical & Horizontal ± 30 degrees	2D, Vertical & Horizontal ± 30 degrees	2D keystone, V: ±30 degree; H: ±30 degree	2D, Vertical ± 30 degrees; Horizontal: ± 30 degree	2D, Vertical ± 30 degrees; Horizontal: ± 30 degree	2D keystone, V: ±30 degree; H: ±30 degree	2D, Horizontal / Vertical ± 30 degrees	2D, Horizontal / Vertical ± 30 degrees
	Lens Control	5 Lens (manual zoom and focus)	5 Lens (manual zoom and focus)	Manual Focus	Manual Focus	Manual Focus	Manual Focus	Manual Focus	Manual Focus
	Projection Offset**	0%	0%	0%	125.70%	124.50%	102.50%	108.00%	100.00%
	Projection Size	50" ~ 300", Standard Lens	50" ~ 300", Standard Lens	30" ~ 300"	30"~300"	30"~300"	30" ~ 300"	30"~300"	30"~300"
Audio	Built-in Speaker	20W (10Wx2)	20W (10Wx2)	10Wx1	10Wx1	10Wx1	20W (10Wx2)	5W x 1	5W x 1
Special Feature	Security	Security Bar, Power Cord Lock	Security Bar, Power Cord Lock	Kensington anti-theft lock slot, Security Bar	Kensington anti-theft lock slot, Security Bar	Kensington anti-theft lock slot, Security Bar	Kensington anti-theft lock slot, Security Bar	Kensington anti-theft lock slot, Security Bar	Kensington anti-theft lock slot, Security Bar
Connectivity	I/O Port	HDMI-1 x1 HDMI-2/ MHL x1 DVI-D In x1 Computer In-1 (D-sub 15pin, female) x1 Computer In-2 (5BNC, YBPBR) x1 Monitor Out (D-sub 15pin, female) x1 Composite Vide (RCA) x1 HDBaseT (RJ45 for video and audio display) x1 Audio In (mini jack) x1 RCA Audio In- L/R x1 RCA Audio Out- L/R x1 LAN Port (RJ45 for network control) x1 RS232 In (D-sub 9pin, male) x1 3D Sync Out x1 USB TypeA (1.5A power) x1 USB TypeB (service) x1 Wired Remote In x1 Wired Remote Out x1 IR Receiver x2 (front, rear) 12V Trigger x1	HDMI-1 x1 HDMI-2/ MHL x1 DVI-D In x1 Computer In-1 (D-sub 15pin, female) x1 Computer In-2(5BNC, YBPBR) x1 Monitor Out (D-sub 15pin, female) x1 Composite Vide (RCA) x1 HDBaseT (RJ45 for video and audio display) x1 Audioln (mini jack) x1 RCA Audio In- L/R x1 RCA Audio Out- L/R x1 LAN Port (RJ45 for network control) x1 RS232 In (D-sub 9pin, male) x1 3D Sync Out x1 USB TypeA (1.5A power) x1 USB TypeB (service) x1 Wired Remote In x1 Wired Remote Out x1 IR Receiver x2 (front, rear) 12V Trigger x1	Wired Remote In x1 RS232 In (D-sub 9pin, male) x1 USB Mini B(Service) x1 USB TypeA(5V/2A power) x1 LAN Port(RJ45 for Network control) x1 HDBaseT x1 HDMI In x3 HDMI Out x1 S-Video in x1 Composite Video(RCA) x1 RCA Audio in- L/R x1 PC In x1 Monitor out (D-sub 15pin,Female) x1 Audio in(mini jack) x1 Audio out (mini jack) x1 12V Trigger x1 IR Receiver(Front) x1 IR Receiver(Rear) x1	PC (D-sub 15pin) x2 Monitor out (D-sub 15pin) x1 HDMI x 2/ MHL x 2 Composite Video in (RCA) x1 S-Video in (Mini DIN 4pin) x1 Audio in (Mini Jack) x1 Audio L/R in (RCA) x1 Audio out (Mini Jack) x1 Microphone in (Mini Jack) x1 LAN (RJ45) x1 USB (Type A) x1 USB (Type Mini B) x2 DC 12V Trigger (3.5mm Jack) x1 RS232 (DB-9pin) x1 IR Receiver x 2 (Front/Top)	PC (D-sub 15pin) x2 Monitor out (D-sub 15pin) x1 HDMI x 2/ MHL x 2 Composite Video in (RCA) x1 S-Video in (Mini DIN 4pin) x1 Audio in (Mini Jack) x1 Audio L/R in (RCA) x1 Audio out (Mini Jack) x1 Microphone in (Mini Jack) x1 LAN (RJ45) x1 USB (Type A) x1 USB (Type Mini B) x2 DC 12V Trigger (3.5mm Jack) x1 RS232 (DB-9pin) x1 IR Receiver x 2 (Front/Top)	Computer In x1 Monitor out (D-sub 15pin,Female) x1 Composite Video(RCA) x1 S-video in x1 HDMI In (one with MHL) x2 Audio in(mini jack) x1 LAN Port(RJ45 for Network control) x1 USB TypeA(5V/1.5A power) x1 USB Type Mini B x1 RCA Audio in- L/R x1 12V Trigger x1 RS232 x1 IR Receiver(Front) x1 IR Receiver(Top) x1 Microphone jack x1	USB (Type B) x1 HDMI 1 x1 HDMI 2 x1 Monitor out (D-sub 15pin) x1 Computer in (D-sub 15pin) x1 LAN x1 USB (Type A) x1 3D Sync Out x1 DC 12V Trigger (3.5mm Jack) x1 Audio out (Mini Jack) x1 Audio in (Mini Jack) x1 Speaker 5W x1 RS-232 x1 Audio L/R in (RCA) x1 Composite Video in (RCA) x1	USB (Type B) x1 HDMI 1 x1 HDMI 2 x1 Monitor out (D-sub 15pin) x1 Computer in (D-sub 15pin) x1 LAN x1 USB (Type A) x1 3D Sync Out x1 DC 12V Trigger (3.5mm Jack) x1 Audio out (Mini Jack) x1 Audio in (Mini Jack) x1 RS-232 x1 Audio L/R in (RCA) x1 Composite Video in (RCA) x1
Compatibility	Resolution Support	VGA (640 x 480) to WUXGA_RB (1920 x 1200)	VGA (640 x 480) to WUXGA_RB (1920 x 1200)	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200)	VGA (640 x 480) to WUXGA_RB (1920 x 1200)	VGA (640 x 480) to WUXGA_RB (1920 x 1200)	VGA(640 x 480) to WUXGA_RB(1920 x 1200) *RB-Reduced Blanking	VGA(640 x 480) to WUXGA_RB(1920 x 1200) *RB-Reduced Blanking
	Horizontal Frequency	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz
	Vertical Scan Rate	23~120 Hz	23~120 Hz	24 ~ 120 Hz	23 ~ 120 Hz	23 ~ 120 Hz	23 ~ 120 Hz	23 ~ 120Hz	23 ~ 120Hz
	HDTV Compatibility	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p
	Video Compatibility	NTSC, NTSC4.43, PAL (PAL-M, PAL-N), SECAM, PAL60	NTSC, NTSC4.43, PAL (PAL-M, PAL-N), SECAM, PAL60	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM
Power	Power Consumption(Normal)	Typical 640W	Typical 640W,	Typical 475W	Typical 540W	Typical 540W	Typical 500W	Typical 420W	Typical 420W
	Standby Power Consumption	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W
	Power Supply	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz
Dimension and Weight	Product Dimensions (WxHxD)	525 x 216 x 470 mm	525 x 216 x 470 mm	490 x 159 x 380 mm	538x 184 x 400 mm	538x 184 x 400 mm	411 x 118 x 268 mm	359.8 x 120.8 x 259mm	359.8 x 120.8 x 259mm
	Product Weight	25 kg (w/ lens)	25 kg (w/ lens)	9.4 kg	13.8 kg	13.8 kg	4.9 kg	3.7 kg	3.7 kg
Operation Condition	Noise Level (Normal/Eco)	36/33 dBA	36/33 dBA	37/35 dBA	35/32 dBA	35/32 dBA	36/33 dBA	39/36 dBA	39/36 dBA
	Operating Temperature	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C
Accessories	Accessories (Standard)	Power Cord (by region) Remote Control w/ Battery VGA (D-sub 15pin) Cable Installation Guide Safety Guide	Power Cord Remote Control AAA Battery x2 VGA cable (1.8m) Installation Guide Safety Guide	Power Cord (by region) Lens cover Remote Control w/ Battery (RCA011) Installation Guide/Regulatory Statement(Combined) Warranty card(by sku) Anti-dust Filter	Power Cord (by region) Remote Control w/ Battery (RCS011) VGA (D-sub 15pin) Cable Quick Start Guide Warranty Card (by region)	Power Cord (by region) Remote Control w/ Battery (RCS011) VGA (D-sub 15pin) Cable Quick Start Guide Warranty Card (by region)	Power Cord (by region) Lens cover Remote control w/Battery (RCA011) VGA(D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card(by region)	Power Cord (by region) Remote control w/Battery (RCS011) VGA(D-sub 15pin) Cable User Manual CD Quick Start Guide (18L) Warranty Card(by region)	Power Cord (by region) Remote control w/Battery (RCS011) VGA(D-sub 15pin) Cable User Manual CD Quick Start Guide (18L) Warranty Card(by region)
	Accessories (Optional)	LS2ST3 Wide Fix (5J.JDH37.002) LS2ST1 Wide Zoom (5J.JDH37.011) LS2SD2 Standard (5J.JEN37.001) LS2LT1 Semi Long (5J.JDH37.032) LS2LT2 Long Zoom (5J.JDH37.041)	LS2ST3 Wide Fix (5J.JDH37.002) LS2ST1 Wide Zoom (5J.JDH37.011) LS2SD2 Standard (5J.JEN37.001) LS2LT1 Semi Long (5J.JDH37.032) LS2LT2 Long Zoom (5J.JDH37.041)	Ceiling mount (CMG3) 3D glasses InstaShow™ (WDC10)	3D Glasses (5J.J9H25.002) Wireless Dongle - QCast QP01 (5J.JCK28.X01) Ceiling mount(CMG3) Dust Filter(FTCC01)	3D Glasses (5J.J9H25.002) Wireless Dongle - QCast QP01 (5J.JCK28.X01) Ceiling mount(CMG3) Dust Filter(FTCC01)	Spare Lamp Kit (5J.JDP05.001) 3D Glasses (5J.J9H25.002) Ceiling mount (CMG3)	Spare Lamp Kit (5J.JKF05.001) Carry Bag Wireless Dongle - QCast QP01 (5J.JCK28.X01) InstaShow™ (WDC10) 3D Glasses (5J.J9H25.002)	Spare Lamp Kit (5J.JKF05.001) Carry Bag Wireless Dongle - QCast QP01 (5J.JCK28.X01) InstaShow™ (WDC10) 3D Glasses (5J.J9H25.002)
OSD	On Screen Display Language	Arabic/ Bulgarian/ Croatian/ Czech/ Danish/ Dutch/ English/ Finnish/ French/ German/ Greek/ Hindi/ Hungarian/ Italian/ Indonesian/ Japanese/ Korean/ Norwegian/ Polish/ Portuguese/ Romanian/ Russian/ Simplified Chinese/ Spanish/ Swedish/ Turkish/ Thai/ Traditional Chinese (28 Languages)		Arabic/ Bulgarian/ Croatian/ Czech/ Danish/ Dutch/ English/ Finnish/ French/ German/ Hindi/ Hungarian/ Italian/ Indonesian/ Japanese/ Korean/ Norwegian/ Polish/ Portuguese/ Romanian/ Russian/ Simplified Chinese/ Spanish/ Swedish/ Turkish/ Thai/ Traditional Chinese/ Vietnam (30 languages)	Bulgarian/ Croatian/ Czech/ Danish/ Dutch/ English/ Finnish/ French/ German/ Greek/ Hungarian/ Italian/ Japanese/ Korean/ Norwegian/ Polish/ Portuguese/ Russian/ Simplified Chinese/ Spanish/ Swedish/ Traditional Chinese (22 Languages)		Arabic/ Bulgarian/ Croatian/ Czech/ Danish/ Dutch/ English/ Finnish/ French/ German/ Greek/ Hindi/ Hungarian/ Italian/ Indonesian/ Japanese/ Korean/ Norwegian/ Polish/ Portuguese/ Romanian/ Simplified Chinese/ Spanish/ Swedish/ Turkish/ Thai/ Traditional Chinese (28 Languages)		

*Lamp in this product contains mercury.   *Lamp life results will vary depending on environmental conditions and usage. Actual product's features and specifications are subject to change without notice. **Offset is calculated by full-screen height.

Meeting Room

Model		LH720	LW720	LX720	SU754	SX751
Display	Projection System	DLP Single 0.65" Full HD	DLP Single 0.65" WXGA	DLP Single 0.55" XGA	DLP Single 0.67" WUXGA	DLP Single 0.55" XGA
	DMD type	DC3 DMD chip	DC3 DMD chip	DC3 DMD chip	DC3 DMD Chip	DC3 DMD Chip
	Resolution	1920x1080 pixels	1280x800 pixels	1024x768 pixels	1920 x 1200 pixels	1024 x 768 pixels
	Brightness	4000 Lumens	4000 Lumens	4000 Lumens	4,700 Lumens	4,300 Lumens
	Contrast Ratio	100000:1	100000:1	100000:1	13,000:1	13,000:1
	Display Color	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)	30 Bits (1,07 billion colors)
	Aspect Ratio	Native 16:9 (5 aspect ratio selectable)	Native 16:10 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)	Native 16:10 (5 aspect ratio selectable)	Native 4:3 (5 aspect ratio selectable)
	Light Source	Laser	Laser	Laser	Lamp (310W)	Lamp (310W)
	Light Source life*	Normal 20000 hrs	Normal 20000 hrs	Normal 20000 hrs	2500/3500/4500 hr (Normal/Eco/SmartEco)	2500/3500/4500 hr (Normal/Eco/SmartEco)
Optical	Throw Ratio	1.38~2.13	1.45~2.24	1.82~2.81	1.39~2.09	1.83~2.75
	Zoom Ratio	1.5x	1.5x	1.5x	1.5X	1.5X
	Lens	F /#= 2.42~2.97, f = 20.7 - 31.05 mm	F /#= 2.42~2.97, f = 20.7 - 31.05 mm	F /#= 2.42~2.97, f = 20.7 - 31.05 mm	F/#= 2.42~2.97, f=20.7~31.05 mm	F#=2.42~2.97, f=20.7~31.05 mm
	Lens shift	Vertical: +14%	Vertical: +12.5%	Vertical: +24%	N/A	N/A
	Keystone Correction	2D, Vertical ± 30 degrees; Horizontal: ± 30 degrees	2D, Vertical ± 30 degrees; Horizontal: ± 30 degrees	2D, Vertical ± 30 degrees; Horizontal: ± 30 degrees	2D, Horiztonal & Vertical ± 30 degrees	2D, Horiztonal & Vertical ± 30 degrees
	Lens Control	Manual Focus	Manual Focus	Manual Focus	Manual Focus	Manual Focus
	Projection Offset**	116%	112.5%	115%	108.4%	113.9%
	Projection Size	30"~300"	30"~300"	30"~300"	26.6"~334.0"	21.5"~269.7"
Audio	Built-in Speaker	10Wx1	10Wx1	10Wx1	10W x1	10W x1
Special Feature	Security	Kensington anti-theft lock slot, Security Bar	Kensington anti-theft lock slot, Security Bar	Kensington anti-theft lock slot, Security Bar	Kensington anti-theft lock slot, Security Bar	Kensington anti-theft lock slot, Security Bar
Connectivity	I/O Port	HDMI-1 x1 HDMI-2/MHL x1 USB TypeA (1.5A power) x1 USB Type min B (For Page up/down and FW upgrade) x1 Computer In (D-sub 15pin, Female) x2 Monitor out (D-sub 15pin,Female) x1 RS232 In (D-sub 9pin, male) x1 LAN (RJ45) (Control & FW Upgrade) x1 DC 12V Trigger (3.5mm Jack) x1 Composite Video (RCA) x1 S-Video x1 Audio in (mini jack) x1 Audio out (mini jack) x1 Audio L/R in (RCA) x1 Microphone in (Mini jack)x1 IR Receiver (Front+Top) x2	HDMI-1 x1 HDMI-2/MHL x1 USB TypeA (1.5A power) x1 USB Type min B (For Page up/down and FW upgrade) x1 Computer In (D-sub 15pin, Female) x2 Monitor out (D-sub 15pin,Female) x1 RS232 In (D-sub 9pin, male) x1 LAN (RJ45) (Control & FW Upgrade) x1 DC 12V Trigger (3.5mm Jack) x1 Composite Video (RCA) x1 S-Video x1 Audio in (mini jack) x1 Audio out (mini jack) x1 Audio L/R in (RCA) x1 Microphone in (Mini jack)x1 IR Receiver (Front+Top) x2	HDMI-1 x1 HDMI-2/MHL x1 USB TypeA (1.5A power) x1 USB Type min B (For Page up/down and FW upgrade) x1 Computer In (D-sub 15pin, Female) x2 Monitor out (D-sub 15pin,Female) x1 RS232 In (D-sub 9pin, male) x1 LAN (RJ45) (Control & FW Upgrade) x1 DC 12V Trigger (3.5mm Jack) x1 Composite Video (RCA) x1 S-Video x1 Audio in (mini jack) x1 Audio out (mini jack) x1 Audio L/R in (RCA) x1 Microphone in (Mini jack)x1 IR Receiver (Front+Top) x2	HDMI x2 (share with MHL x1) Computer In-1 (D-sub 15pin, female) (share with component) x1 Monitor Out (D-sub 15pin, female) x1 Composite Video In (RCA) x1 S-Video In (mini din 4 pin) x1 Audio In (mini jack) x1 RCA Audio In- L/R x1 Audio Out (mini jack) x1 Microphone In (mini jack) x1 RS232 In x1 LAN Port (RJ45 for network control) x1 DC 12V Trigger (3.5mm jack) x1 USB TypeA (1.5A power) x1 USB (type mini B) x1 IR Receiver x2 (front, rear)	HDMI x2 (share with MHL x1) Computer In-1 (D-sub 15pin, female) (share with component) x1 Monitor Out (D-sub 15pin, female) x1 Composite Video In (RCA) x1 S-Video In (mini din 4 pin) x1 Audio In (mini jack) x1 RCA Audio In- L/R x1 Audio Out (mini jack) x1 Microphone In (mini jack) x1 RS232 In x1 LAN Port (RJ45 for network control) x1 DC 12V Trigger (3.5mm jack) x1 USB TypeA (1.5A power) x1 USB (type mini B) x1 IR Receiver x2 (front, rear)
Compatibility	Resolution Support	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking	VGA (640 x 480) to WUXGA_RB (1920 x 1200) *RB-Reduced Blanking
	Horizontal Frequency	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz	15K~102K Hz
	Vertical Scan Rate	23~120 Hz	23~120 Hz	23~120 Hz	23~120 Hz	23~120 Hz
	HDTV Compatibility	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 567p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
	Video Compatibility	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM	NTSC, PAL, SECAM
Power	Power Consumption(Normal)	Typical 300W	Typical 300W	Typical 300W	Typical 365W	Typical 365W
	Standby Power Consumption	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W	Network Standby<2W, Standby<0.5W
	Power Supply	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz	AC100V to 240V, 50Hz to 60Hz
Dimension and Weight	Product Dimensions (WxHxD)	410 x 158 x 272 mm	410 x 158 x 272 mm	410 x 158 x 272 mm	314 x 117 x 233 mm	314 x 117 x 233 mm
	Product Weight	5.6 kg	5.6 kg	5.6 kg	3.3 kg	3.3 kg
Operation Condition	Noise Level (Normal/Eco)	33 /29 dBA	33 /29 dBA	33 /29 dBA	36/31 dBA	36/31 dBA
	Operating Temperature	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C
Accessories	Accessories (Standard)	Power Cord (by region) Remote Control w/ Battery (RCE015) VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region)	Power Cord (by region) Remote Control w/ Battery (RCE015) VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region)	Power Cord (by region) Remote Control w/ Battery (RCE015) VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region)	Power Cord (by region) Remote Control w/ Battery (RCS011) VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region)	Power Cord (by region) Remote Control w/ Battery (RCS011) VGA (D-sub 15pin) Cable User Manual CD Quick Start Guide Warranty Card (by region)
	Accessories (Optional)	3D Glasses (5J.J9H25.002) Wireless Dongle - QCast Mirror QP20 (5A.JH328.10X) Wireless Dongle - QCast QP01 (5J.JCK28.X01) InstaShow™ (WDC10) Ceiling mount (CMG3) 3mm Dust Filter (FTFS01) 10mm Dust Filter (FTFC01)	3D Glasses (5J.J9H25.002) Wireless Dongle - QCast Mirror QP20 (5A.JH328.10X) Wireless Dongle - QCast QP01 (5J.JCK28.X01) InstaShow™ (WDC10) Ceiling mount (CMG3) 3mm Dust Filter (FTFS01) 10mm Dust Filter (FTFC01)	3D Glasses (5J.J9H25.002) Wireless Dongle - QCast Mirror QP20 (5A.JH328.10X) Wireless Dongle - QCast QP01 (5J.JCK28.X01) InstaShow™ (WDC10) Ceiling mount (CMG3) 3mm Dust Filter (FTFS01) 10mm Dust Filter (FTFC01)	Spare Lamp Kit (5J.JFG05.001) Ceiling Mount (CMG3) 3D Glasses (5J.J9H25.002) RS232 Cable Carry Bag Wireless Dongle - QCast QP01 (5J.JCK28.X01) InstaShow™ (WDC10)	Spare Lamp Kit (5J.JFG05.001) Ceiling Mount (CMG3) 3D Glasses (5J.J9H25.002) RS232 Cable Carry Bag Wireless Dongle - QCast QP01 (5J.JCK28.X01) InstaShow™ (WDC10)
OSD	On Screen Display Language	Arabic/Bulgarian/ Croatian/ Czech/ Danish/ Dutch/ English/ Finnish/ French/ German/ Greek/ Hindi/ Hungarian/ Italian/ Indonesian/ Japanese/ Korean/ Norwegian/ Polish/ Portuguese/ Romanian/ Russian/ Simplified Chinese/Spanish/ Swedish/ Turkish/ Thai/ Traditional Chinese (28 languages)				

*Lamp in this product contains mercury. *Lamp life results will vary depending on environmental conditions and usage. Actual product's features and specifications are subject to change without notice. **Offset is calculated by full-screen height.