

# Display size matters in education



# WHAT SHOULD YOU LOOK FOR IN A SCREEN?

This guide will explore the importance of screen size, cost-effectiveness and image quality, helping you find the optimum display for your classroom.

When you're choosing the right display technology for your institution, there's a lot to consider. One of the first questions you might ask is: Do I need an all-in-one projector solution, a whiteboard or a flat panel?

Achieving the optimum display, with the correct visibility, is critical for both teachers and students – allowing everyone to make the most of every lesson with vibrant on-screen content. One of the advantages of Epson projectors is that they offer a scalable screen size, to meet the varying requirements of rooms of all sizes.



## LARGE CLASSROOMS AND LECTURE HALLS

Viewing distance: 3 to 11 metres

Typical screen size: 100" to 500"

Lesson: One-to-many lectures and information sharing

Content: Presentations, diagrams and websites



## MEDIUM SIZED CLASSROOMS

Viewing distance: 2 to 3 metres

Typical screen size: 65" to 200"

Lesson: Collaborative environment

Content: Interactive whiteboard presentations, teaching content and diagrams



## SMALL CLASSROOMS

Viewing distance: 1 to 2 metres

Typical screen size: 30" to 65"

Lesson: One-to-one tuition or one-to-many on-the-go teaching

Content: Presentations, videos and training modules

# THE RIGHT SIZE FOR OPTIMUM VISIBILITY

It all starts with finding the right screen size for your room. This simple choice is so important – you need to display content clearly to have engaging lessons, while also ensuring that you adhere to health and safety standards. With a scalable solution that suits rooms of any size, Epson projectors make this decision easier than ever.

## MEET MINIMUM SCREEN SIZE REQUIREMENTS WITH EASE

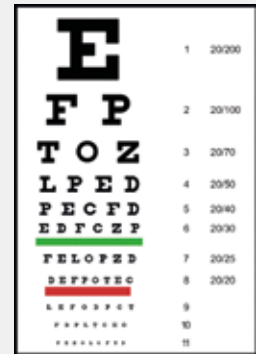
You wouldn't be comfortable working at a desk where the screen is too small – it's not good for your eyes, and can compromise the quality of on-screen content.

For the same reasons, you need a screen size that is correct for your teaching space – which is why Epson projectors exceed health and safety standards for the equivalent desktop display experience (EU Directive 90/270/EEC – Display Screen Equipment).

The screen size scalability and functionality of Epson projectors mean it's easy to ensure that content shown is not too small, is of high quality and is clearly visible to all, taking into consideration viewing distances from the screen. That way, everyone has the same opportunities to share and engage.

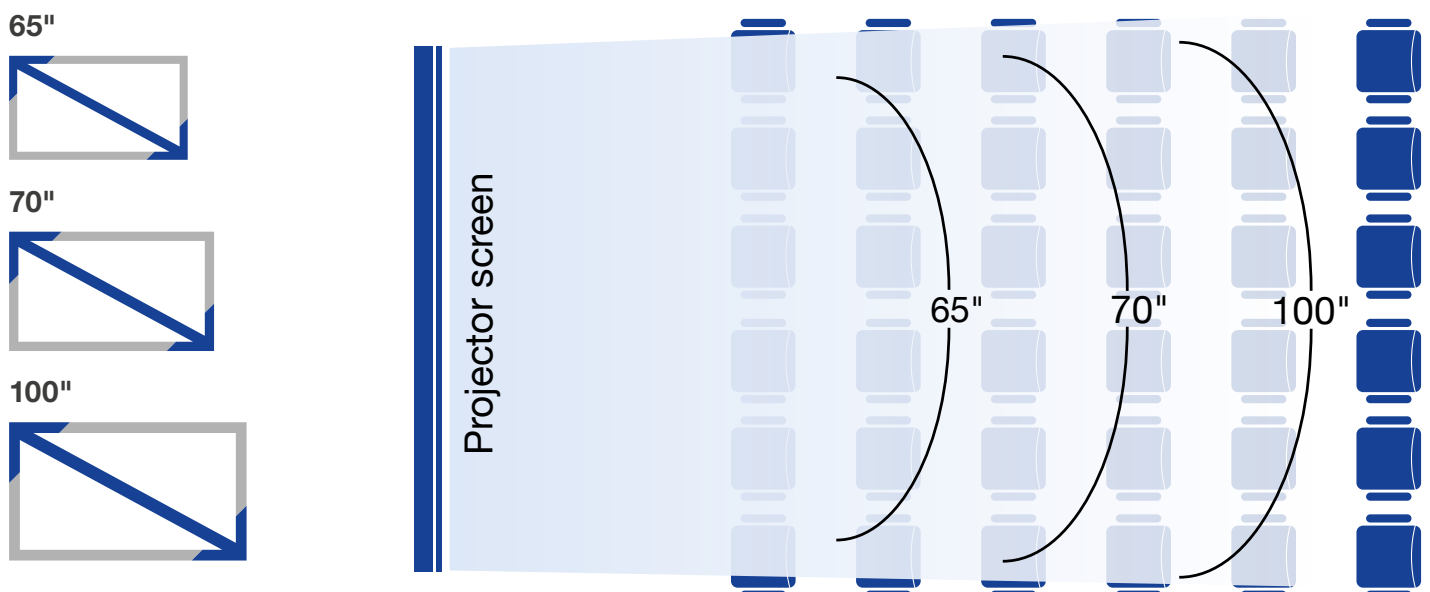
## EFFECTIVE VIEWING DISTANCES

Achieving the optimum display size requires precision. And unlike traditional flat panel displays, projectors provide a scalable screen size, making it easy to create effective lessons for varying viewing distances.



With the Snellen eyesight test, you can achieve the right screen size for your classroom.

Those with 20/20 vision should be able to see line 8 of the chart from a distance of 20ft. If you can't, it may be an indicator that you do not have the right screen size for your classroom.



Based on a typical room length of 6 metres



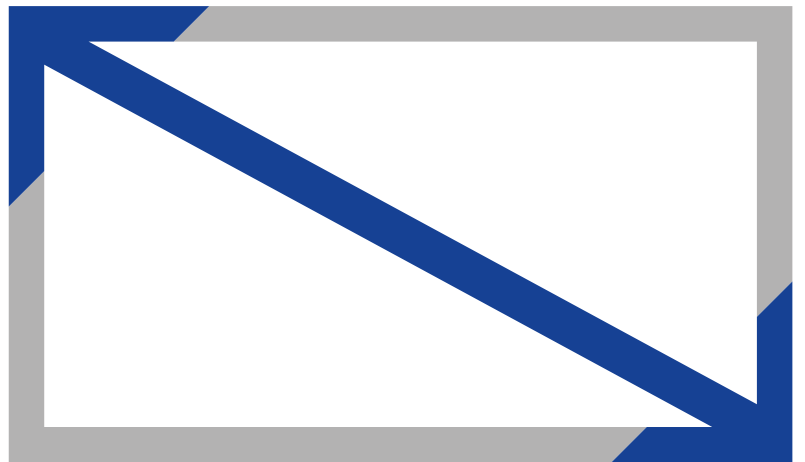
## CHOOSING YOUR SOLUTION

Achieving the optimal screen size means replicating the average desktop experience for all students in your class, including those furthest away from the screen.

According to the Snellen eye sight test, to make an image appear the same size when it is twice as far away, it needs to be twice as tall, or four times the size in area.



60" display feels like a 14" monitor



100" display feels like a 25.2" monitor

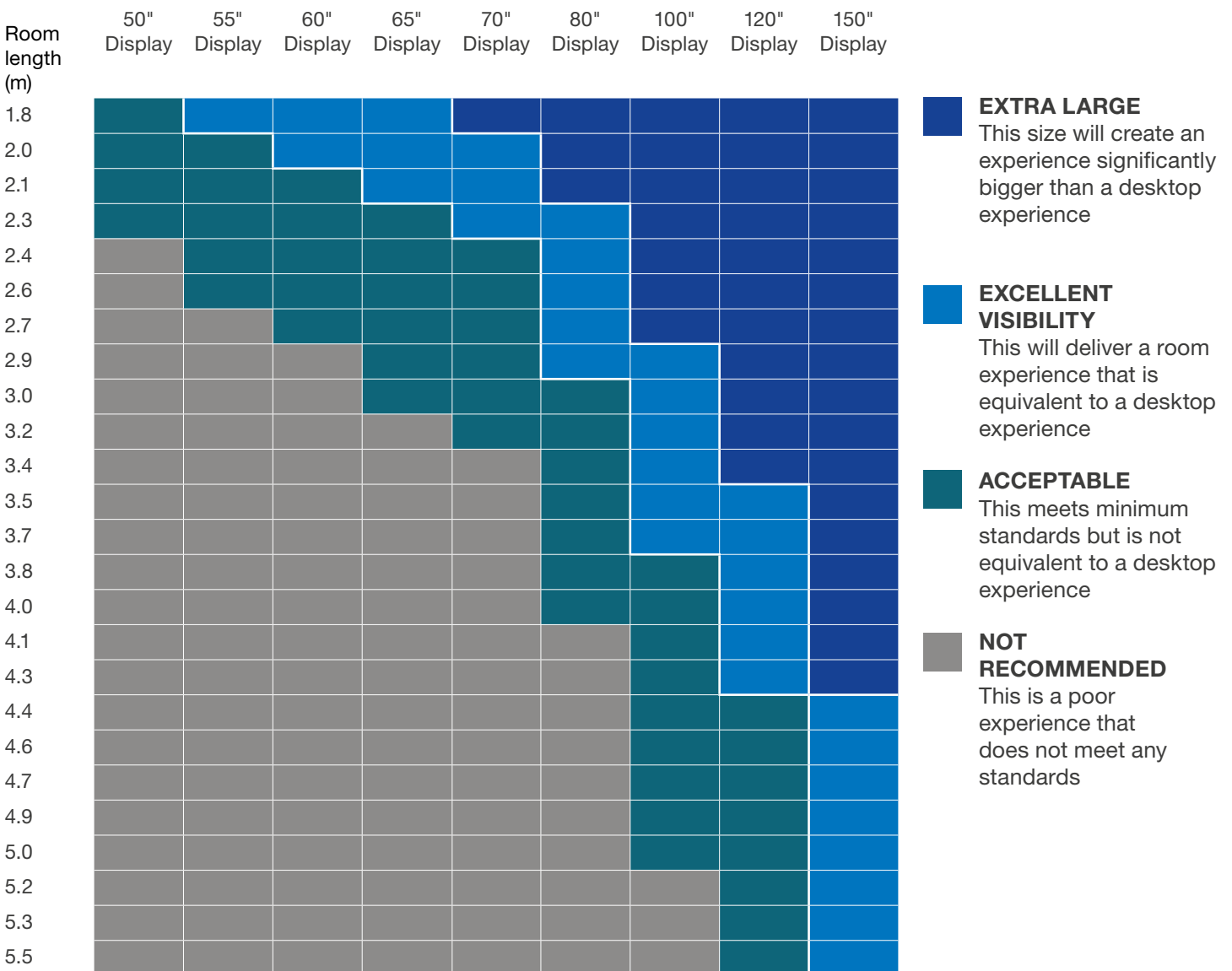
Based on a room size of 4 x 3 metres





## SCALE TO YOUR SPACE

Use the chart below to find the optimal size for your teaching space: simply look up the room length on the left and scan across.



Note: Displays smaller than 80 inches are assumed to be 16:9, displays 80 inches or larger are assumed to be 16:10

# COST-EFFECTIVE COLLABORATION

Epson offers interactive projectors as an alternative to using separate screens, flip charts and whiteboards. Epson's classroom solution means for just one fixed cost, you can have a flexible and scalable screen size that extends up to 500"¹.

This all-in-one solution is only a fraction of the price of flat panel displays over 80". And because Epson projectors are significantly lighter than flat panel displays, they are easier and far more cost-effective to install. An Epson projector also offers similar connectivity ports to a flat panel display, and with no license fees or software costs, the solution generates measurable return on investment, straight out of the box.

## OPTIMISED COLLABORATION

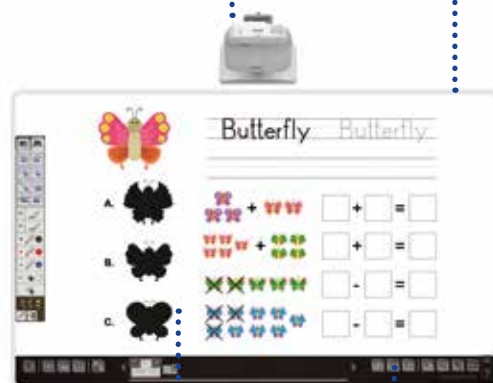
In addition to offering optimum screen performance, Epson projectors are designed to integrate with your existing systems. With Epson's education solutions, you can create flexible, future-proof, dynamic lessons, lectures and seminars, and unify communications to ensure a smooth workflow across all devices, at all times.



Lecture via high quality video conferencing



Project wirelessly from mobile devices



Annotate with unrivalled precision



Save, share and print

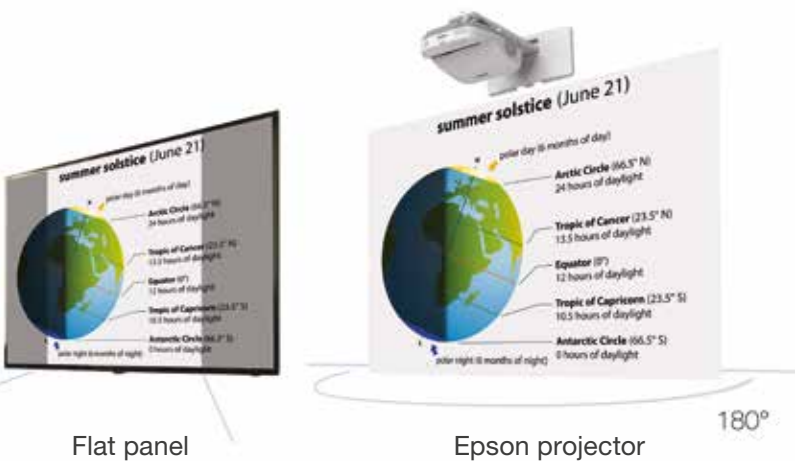
# QUALITY THAT'S EASY TO SEE

## NO REFLECTION

Automatic light adjustment in Epson projectors detects the ambient light conditions in the room and changes the level of brightness accordingly.

Bright room

Dark room



Flat panel

Epson projector

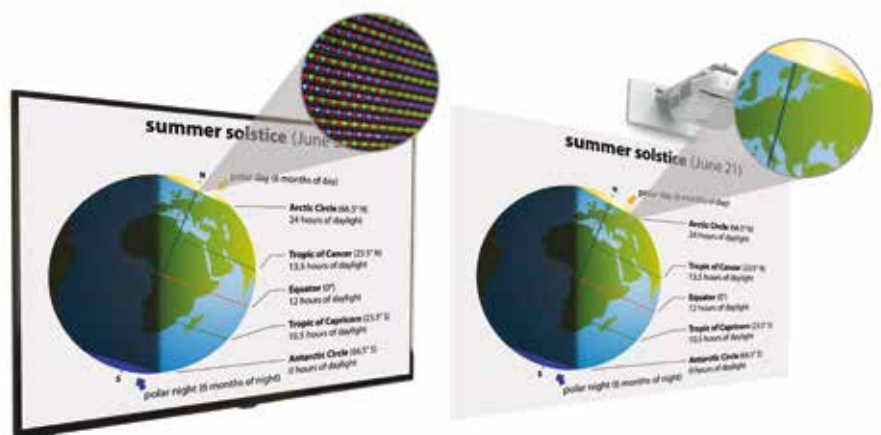
180°

## UNRESTRICTED VIEWING

Some flat panels have restricted viewing angles, making it hard to see content on the screen when viewed from the side of a room. This, however, is not the case with Epson projectors, which have no blind spots, allowing everyone to see the content easily.

## GENTLE ON THE EYE

Flat panel RGB screens can appear pixelated when viewed up close for long periods – such as during lectures or interactive group work – potentially causing strain to the eyes. On the other hand, projectors have less pixelation than flat panel displays, and with automatic light adjustment, they can be viewed in comfort for longer periods.



Flat panel

Epson projector



The benefits are clear: with a scalable screen size from Epson, you can deliver enriching lessons with high quality content, visible to all, in almost any room.

		Epson projectors	Flat panel
<b>Size</b>	Image size (diagonal)	Scalable up to 500" <sup>1</sup>	Average interactive flat panel 65" – 69" <sup>2</sup>
	Adjustable size	Scalable	Fixed
	Impact	Correctly sized displays maximise visibility and impact, and encourage collaboration	Displays of an inappropriate size minimise impact, visibility, and restrict interaction



**FIND OUT MORE AT:**  
[www.epson.co.uk/education](http://www.epson.co.uk/education)

1. Screen size of up to 500" based on Epson installation projectors
2. Source: Futuresource Q415 – Western Europe - Corporate Flat Panels
3. Colour Brightness (Colour Light Output) measured in accordance with IDMS 15.4. Colour Brightness will vary depending on usage conditions. Leading Epson 3LCD business and education projectors compared to leading one-chip DLP projectors, based on NPD data for June 2013 through May 2014 and PMA Research data for Q1 through Q3 2013. For more information please visit [www.epson.co.uk/CLO](http://www.epson.co.uk/CLO)
4. Survey conducted by Futuresource Consulting Limited for the period from 2001 to 2015

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