



Our 3-Step Guide to Display Success

Use this table or download our DISCAS calculator to decide image size based on distance between farthest viewer and the screen

Step 1 - Getting the image size right				Step 2 - Display type		Step 3 - Choosing your display
Farthest viewer from screen (m)	Screen Size ("/diagonal)	Screen Height (m)	Screen Width (m)	Ambient light levels	Display type	Key information and guidance
1.5m - 6m	40" - 90"	0.5m - 1.1m	0.9 - 2m	Up to brightly lit spaces	Flat Panel Display (FPD) or Large Format Display (LFD); mostly LCD panels backlit with LEDs	<ul style="list-style-type: none"> For single image use in smaller spaces For multi-screen installations in public and high traffic areas Easy to install and cost-effective at this size <p>Critical specification and purchasing requirements:</p> <ol style="list-style-type: none"> Use professional grade displays to avoid reliability, monitoring, and controlling issues Use displays with anti-reflective screens to avoid 'cheap seats' where reflections from lights or windows create 'veiling glare' for some viewers - so always 'try before you buy'. Cost-effective only up to 90", from 90"-98" (max. available swize) choose ALR Laser Projection for best benefit-cost ratio These are commodity items. Procure from any mainstream AV/IT distributor which can genuinely provide product as per the two points above - and offers good demo and support facilities.
6m - any size	90" - any size	1.1m - any size	2m - any size	Up to brightly lit spaces	ALR Laser Projection (laser projector with ambient light rejecting screen)	<ul style="list-style-type: none"> Low cost Scalable to any required size Maintains perfect resolution at all sizes (unlike dvLED) ALR (ambient light rejecting) screens use cheaper, lower lumens projectors than those needed when projecting onto walls or standard white screen - PLUS... ALR screens conform to the global ANSI AVIXA 'PISCR' image quality and contrast standard Complete packages are sold as single line order items (SKUs) <p>Critical specification and purchasing requirements:</p> <ol style="list-style-type: none"> Use our Complete Laser Display packages comprising Epson high-brightness, 3LCD laser projector, Epson projector mount, dnp Supernova ALR screen and extended Epson 5 year warranty - including optional free installation CAD drawings; optional site surveys; optional installation. All the work is done for you! - OR... Let us help you create your own version with with dnp Supernova ALR screens and your own projector, mount etc.



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Not applicable	110" - any size	1.4m - any size	2.4m - any size	Up to brightly lit spaces	Videowall (Digital Signage only. Large screen display made from smaller individual LCD panels with LED backlighting)	<ul style="list-style-type: none"> Large screen displays made by 'tiling' smaller displays, such as a 110" display made from four 55" panels, arranged two high and two wide (this example known as 2 x 2 array) Bright displays with wide range of luminances available (350-3000cd/m²) <p>Critical specification and purchasing requirements:</p> <ol style="list-style-type: none"> Not seamless - there is always a small gap between the panels, typically 1-2mm Used only for signage applications - not suitable for meeting rooms, teaching, business presentations as users find the gaps/mullions between the individual display panels to be too distracting Lower capital costs than dvLED, but needs regular maintenance (calibration), so running costs must be factored
15m - any size	200" - any size	2.5m - any size	4.4m - any size	Up to direct daylight	Direct View LED (dvLED)	<ul style="list-style-type: none"> Super bright - up to 5000cd/m² [nit] Ideal for digital signage Can even be used outdoors <p>It's too easy for clients to make expensive mistakes with dvLED, so note these critical specification and purchasing issues:</p> <ol style="list-style-type: none"> Avoid for ProAV applications where engagement with content is important and/or for extended periods (eg meetings, teaching, presentations etc) unless you get the following points exactly right. Displaying exactly the same resolution as the content is mission-critical. Often users don't understand there's a fixed relationship between pixel size, image resolution and image size. If you specify a certain size and the display's pixels are not exactly the same as the image resolution (eg HD 1920 x 1080, 4K/UHD 3860 x 2160, etc) then content will be 'scaled' and not sharp. Reducing the brightness (luminance) to 350-500cd/m² [nit] typically required for professional content presentation can reduce the dynamic range / contrast / quality of the image - and wastes budget on over-specified brightness. Beware wide range of cost options based on poorly-understood 'binning' (quality selection) of individual LEDs used in manufacture - you really do pay for the quality of what get. Let us do all the specification and best practice calculations for you. We'll do the hard work and guide to a guaranteed success for your clients.