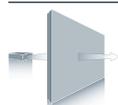




The dnp CSI Screen sets new standards for the image quality of multi-screen installation. It offers unsurpassed contrast, extremely wide viewing angles and high colour uniformity.



dnp optical rear
projection screens

The dnp CSI Screen offers a unique combination of extremely wide viewing angles, very high contrast and low colour shift at varying viewing angles (CSI is short for Colour Shift Improvement).

The superior colour shift performance is achieved through advanced optical scattering particles in the screen base material, and in interplay with the black stripe prism structures (also known from the dnp Cross Prism Screen), the outcome is a high efficiency screen suitable for especially relatively large display walls.

Made from an acrylic styrene copolymer material, the dnp CSI Screen is highly resistant to unstable projection environments. While acrylic based screens expand/retract with room humidity, the CSI Screen retains its dimensions. This allows design for cubes and display walls with almost invisible seams.

Moreover, the CSI Screen incorporates technology that eliminates "Speckle" (small bright spots in the image) and the result is a smooth and clean image – even at close view.

The advanced lens design includes a Fresnel lens and two crossed prism lenticular structures with contrast enhancing dnp

Black Stripe technology. As a result, the screen is extremely tolerant to ambient light. The front surface of the screen features a non glare, hard coat surface that protects the screen and avoids specular reflections from light sources such as windows and room lighting.

- > Unsurpassed contrast
- > Centre-to-corner brightness uniformity
- > Extremely wide viewing angles
- > No speckle
- > Low humidity expansion/absorption
- > Non glare easy clean surface
- > Multiple options for focal length
- > Compatible with all standard projectors
- > Smooth viewing angle experience
- > 4K compatible

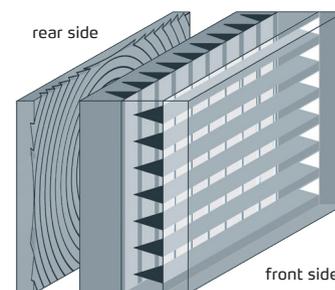
Product details

CSI Screen		4:3 aspect ratio				16:9 aspect ratio		
Screen size		50"	60"	70"	80"	50"	60"	70"
Dimensions								
Width	mm	1040 +/-1	1245 +/-1	1438 +/-1	1625 +/-1	1140 +/-1	1360 +/-1	1590 +/-1
Height	mm	790 +/-1	940 +/-1	1138 +/-1	1219 +/-1	660 +/-1	780 +/-1	910 +/-1
Thickness	mm	5.9 +/-0.3	5.9 +/-0.3	5.9 +/-0.3	6.5 +/-0.3	5.9 +/-0.3	5.9 +/-0.3	6.5 +/-0.3
Weight	kg	5.7 +/-0.3	8.1 +/-0.3	11.4 +/-0.3	15.2 +/-0.3	5.2 +/-0.3	7.4 +/-0.3	11.1 +/-0.3
Width	inch	40.9 +/-0.04	49.0 +/-0.04	56.6 +/-0.04	64.0 +/-0.04	44.9 +/-0.04	53.5 +/-0.04	62.6 +/-0.04
Height	inch	31.1 +/-0.04	37.0 +/-0.04	44.8 +/-0.04	48.0 +/-0.04	26.0 +/-0.04	30.7 +/-0.04	35.8 +/-0.04
Thickness	inch	0.23 +/-0.01	0.23 +/-0.01	0.23 +/-0.01	0.26 +/-0.01	0.23 +/-0.01	0.23 +/-0.01	0.26 +/-0.01
Weight	lbs	12.6	18.0	25.1	33.5	11.6	16.3	24.5
Image area								
Width	mm	1016	1219.2	1400	1600	1107	1328	1550
Height	mm	762	914.4	1050	1200	623	747	872
Width	inch	40	48	55.1	63	43.6	52.3	61
Height	inch	30	36	41.3	47.2	24.5	29.4	34.3

A wide range of fresnel lens focal lengths are available to match the actual projection engine lens.
Other screens sizes are available upon request.

Screen profile (horizontal section)

The ultra fine pitch Fresnel lens focuses the projected image and distributes it through a 4-layer lenticular lens. This element enhances the image for optimum viewing by distributing light vertically and horizontally. The black stripes on the crossed prism structures effectively absorb ambient light. Finally the image is transported through a carrier layer that is protected by scratch-proof, non glare surface.



General specifications

Optical specifications

Peak gain	1.4 +/- 10%
Lenticular pitch	0.065

Operating environment

Temperature	°C	5-35
	°F	41-95
Humidity (non-condensing)	%RH	30-70

Humidity/temperature expansion coefficient

Coefficient of thermal expansion (10 ⁻⁶ m/m/°C)	67
Fresnel element	57
Front side element	57

See [graph](#) for details on humidity expansion

Included in the package

Gloves, quality certificate

Certificates



Gain chart

