

dnp Ultra Contrast Screen™



The dnp Ultra Contrast Screen (UCS) is developed exclusively for single lens projectors. The UCS has exceptionally good centre-to-corner brightness uniformity and displays bright, sharp images over a broad viewing area.

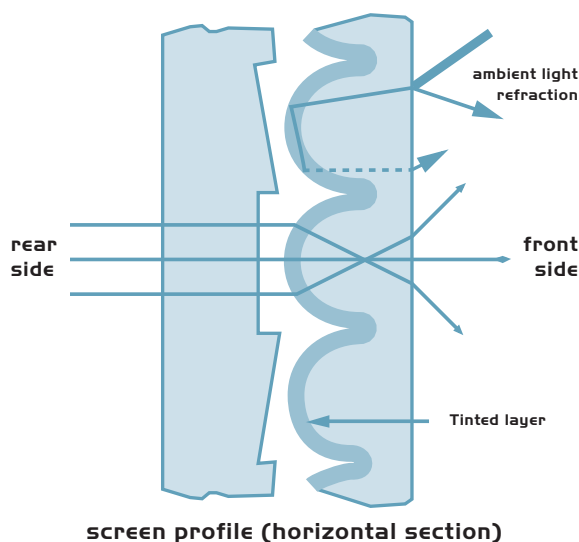
The advanced optical lens system and the special UCS lenticular offer high tolerance to ambient light and provide special technologies for enhancing contrast. This makes the UCS well-suited for retrobox applications and multi-screen installations in high-light environments such as control rooms and Point of Sale locations.

The UCS is a double element screen with four active lens surfaces. The ultra-fine resolution allows the screen to be viewed at very close range. And the easy-clean front surface makes it suitable for applications where the screen is likely to be touched. The front UCS

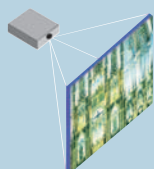
lenticular offers a smooth matt surface to the viewer with the vertical lenticular lenses facing the projector.

The UCS is available in a Standard version and a Rigid version, which is optimized for cube installations in control rooms. This version is reinforced with a thicker acrylic front element, which makes the screen more rigid and enhances the vertical light distribution.

- = Ultra high contrast and sharpness
- = Superb centre-to-corner brightness uniformity
- = Wide horizontal viewing angles
- = Multiple options for focal length
- = Easy-clean surface
- = Compatible with LCD, DLP, LCOS, Light Valve and D-ILA projectors



The Fresnel lens on the rear element refracts projected light directly through the screen. The reverse UCS lenticular lenses on the front element distribute the light horizontally, enhance contrast and reduce the impact of ambient light.



Rear projection

Rear projection means that the projector is placed behind the screen, shining straight forward towards the audience. The optical screen controls the light path and distributes bright, sharp images into a predefined viewing zone. Furthermore, the presenter and the audience can stand in front of the image without casting shadows. And with the projector equipment hidden behind the screen, the viewing area remains quiet, clean and tidy.

Screen specifications

	Ultra Contrast Screen	Type no.	52" UCS 826 1 552 8 082 35	52" UCS 870 1 552 8 085 35	52" UCS 930 1 552 8 095 35	52" UCS 1100 1 552 8 110 35	60" UCS 930 1 560 8 095 35	60" UCS 1100 1 560 8 110 35	60" UCS 1600 1 560 8 160 35	67" UCS 1100 1 567 8 110 35
	Dimensions									
	Width	mm	1082 +/- 0.5	1082 +/- 0.5	1082 +/- 0.5	1082 +/- 0.5	1244 +/- 1	1244 +/- 1	1244 +/- 1	1395 +/- 1
	Height	mm	818 +/- 0.5	818 +/- 0.5	818 +/- 0.5	818 +/- 0.5	939 +/- 1	939 +/- 1	939 +/- 1	1060 +/- 1
	Rec. lens throw ratio range		0.7 - 0.9:1	0.75 - 1.0:1	0.8 - 1.0:1	0.9 - 1.2:1	0.7 - 0.9:1	0.8 - 1.0:1	1.1 - 1.5:1	0.7 - 0.9:1
	Rec. projection distance range*	mm	700 - 950	750 - 1000	800 - 1070	940 - 1260	800 - 1070	940 - 1260	1360 - 1840	940 - 1260
	Thickness	mm	3.1 +/- 0.3	3.1 +/- 0.3	3.1 +/- 0.3	3.1 +/- 0.3	3.1 +/- 0.3	3.1 +/- 0.3	3.1 +/- 0.3	3.1 +/- 0.3
	Weight	kg	3.4 +/- 10%	3.4 +/- 10%	3.4 +/- 10%	3.4 +/- 10%	4.5 +/- 10%	4.5 +/- 10%	4.5 +/- 10%	5.7 +/- 10%
Image area										
Width	mm	1057	1057	1057	1057	1219	1219	1219	1370	
Height	mm	793	793	793	793	914	914	914	1035	
Optical specifications										
Screen focal	mm	826	870	930	1100	930	1100	1600	1100	
	Ultra Contrast Screen	Type no.	67" UCS 1600 1 567 8 160 35	70" UCS 1100 1 570 8 110 35	70" UCS 1600 1 570 8 160 35	70" UCS 2400 3 070 8 240 35	50" UCS 826 RI 1 552 8 082 55	50" UCS 870 RI 1 552 8 085 55	50" UCS 930 RI 1 552 8 095 55	50" UCS 1100 RI 1 552 8 110 55
	Dimensions									
	Width	mm	1395 +/- 1	1451 +/- 1	1451 +/- 1	1451 +/- 1	1035 +/- 0.5	1035 +/- 0.5	1035 +/- 0.5	1035 +/- 0.5
	Height	mm	1060 +/- 1	1095 +/- 1	1095 +/- 1	1095 +/- 1	780 +/- 0.5	780 +/- 0.5	780 +/- 0.5	780 +/- 0.5
	Rec. lens throw ratio range		1.0 - 1.3:1	0.7 - 0.9:1	0.9 - 1.3:1	1.4 - 1.9:1	0.7 - 0.9:1	0.75 - 0.95:1	0.8 - 1.0:1	0.9 - 1.2:1
	Rec. projection distance range*	mm	1360 - 1840	940 - 1260	1360 - 1840	2040 - 2760	700 - 950	750 - 1000	800 - 1070	940 - 1260
	Thickness	mm	3.1 +/- 0.3	3.1 +/- 0.3	3.1 +/- 0.3	4.9 +/- 1	6.6 +/- 0.5	6.6 +/- 0.5	6.6 +/- 0.5	6.6 +/- 0.5
	Weight	kg	5.7 +/- 10%	6.1 +/- 10%	6.1 +/- 10%	9.5 +/- 10%	6.4 +/- 10%	6.4 +/- 8%	6.4 +/- 10%	6.4 +/- 10%
Image area										
Width	mm	1370	1426	1426	1426	1010	1010	1010	1010	
Height	mm	1035	1070	1070	1070	755	755	755	755	
Optical specifications										
Screen focal	mm	1600	1100	1600	2400	826	870	930	1100	
	Ultra Contrast Screen	Type no.	60" UCS 930 RI 1 560 8 095 55	60" UCS 1100 RI 1 560 8 110 55	60" UCS 1600 RI 1 560 8 160 55	67" UCS 1100 RI 1 567 8 110 55	67" UCS 1600 RI 1 567 8 160 55	67" UCS 2400 RI 3 067 8 240 55		
	Dimensions									
	Width	mm	1244 +/- 1	1244 +/- 1	1244 +/- 1	1365 +/- 1	1365 +/- 1	1365 +/- 1		
	Height	mm	939 +/- 1	939 +/- 1	939 +/- 1	1060 +/- 1	1060 +/- 1	1060 +/- 1		
	Rec. lens throw ratio range		0.7 - 0.9:1	0.8 - 1.0:1	1.1 - 1.5:1	0.7 - 0.9:1	1.0 - 1.3:1	1.5 - 2.1:1		
	Rec. projection distance range*	mm	800 - 1070	940 - 1260	1360 - 1840	940 - 1260	1360 - 1890	2040 - 2760		
	Thickness	mm	6.6 +/- 0.5	6.6 +/- 0.5	6.6 +/- 0.5	6.6 +/- 0.5	6.6 +/- 1	7.3 +/- 1		
	Weight	kg	9.5 +/- 10%	9.5 +/- 10%	9.5 +/- 10%	11.8 +/- 10%	11.8 +/- 10%	13.5 +/- 10%		
Image area										
Width	mm	1219	1219	1219	1340	1340	1340			
Height	mm	914	914	914	1035	1035	1035			
Optical specifications										
Screen focal	mm	930	1100	1600	1100	1600	2400			

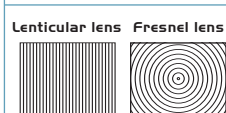
* General tolerance = +/- 15%, related to the actual screen focal length.

General specifications

Optical specifications	Peak Gain	Pitch		
Ultra Contrast Standard	3.8 +/- 0.5	0.14		
Ultra Contrast Rigid 50" - 67" 2400	2.7 +/- 0.5	0.14		
Ultra Contrast 70" 2400	4.4 +/- 0.5	0.14		

Subject to change without notice. Please check specification at time of ordering. Detailed gain curves can be viewed and downloaded at www.dnp.dk

February 2004



Optical screen technology

dnp optical screens enhance the image for optimum viewing by combining the focusing ability of a Fresnel lens with the distributive properties of a lenticular lens. The result is brilliantly sharp images, superb contrast and up to 4 times brighter images than conventional front or rear projection screens.

www.dnp.dk

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Screens of the art