



The Ultra Contrast Screen (UCS) is especially designed for environments with high levels of ambient light such as brightly lit control rooms, airports and window displays. The screen has exceptionally good centre-to-corner brightness uniformity and displays bright, sharp images over a broad viewing area.



dnp optical rear  
projection screens

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 digital signage 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.

- > Ultra high contrast and sharpness
- > Superb centre-to-corner brightness uniformity
- > Extraordinary high brightness
- > Multiple options for focal length
- > Easy-clean surface
- > Compatible with all standard projectors
- > 4K compatible

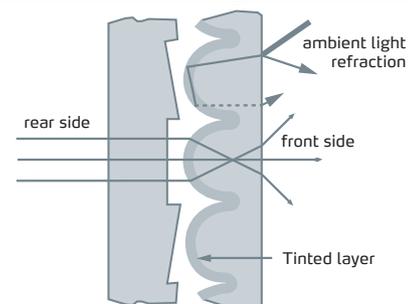
## Product details

Ultra Contrast Screen Type		4:3 aspect ratio				16:9 aspect ratio			
		50"	60"	70"	80"	50"	60"	70"	80"
Screen size		50"	60"	70"	80"	50"	60"	70"	80"
Dimensions									
Width	mm	1040 +/-1	1245 +/-1	1438 +/-1	1625 +/-1	1140 +/-1	1360 +/-1	1590 +/-1	1787 +/-1
Height	mm	790 +/-1	940 +/-1	1138 +/-1	1219 +/-1	660 +/-1	780 +/-1	910 +/-1	1012 +/-1
Thickness	mm	4.0 +/-0.3	4.0 +/-0.3	4.0 +/-0.3	4.5 +/-0.3	4.0 +/-0.3	4.0 +/-0.3	4.5 +/-0.3	4.5 +/-0.3
Weight	kg	3.9 +/-0.3	5.5 +/-0.3	7.7 +/-0.3	10.5 +/-0.3	3.6 +/-0.3	5.0 +/-0.3	7.7 +/-0.3	10.1 +/-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	70.4 +/-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	39.8 +/-0.04
Thickness	inch	0.16 +/-0.01	0.16 +/-0.01	0.16 +/-0.01	0.18 +/-0.01	0.16 +/-0.01	0.16 +/-0.01	0.18 +/-0.01	0.18 +/-0.01
Weight	lbs	8.6	12.2	17.0	23.2	7.8	11.0	16.9	22.3
Image area									
Width	mm	1016	1219.2	1400	1600	1107	1328	1550	1772
Height	mm	762	914.4	1050	1200	623	747	872	997
Width	inch	40	48	55.1	63	43.6	52.3	61	69.8
Height	inch	30	36	41.3	47.2	24.5	29.4	34.3	39.3

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 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.



## General specifications

Optical specifications			
Peak gain		2.3 +/- 0.3	
Lenticular pitch		0.14	
Operating environment			
Temperature	°C	5-35	
	°F	41-95	
Humidity (non-condensing)	%RH	30-70	
Humidity/temperature expansion coefficient			
Coefficient of thermal expansion (10 <sup>-6</sup> m/m/°C)			
Fresnel element		70	
Front side element		70	
See <a href="#">graph</a> for details on humidity expansion			

Included in the package  
Gloves, quality certificate

## Certificates



> dnp denmark as  
Skruergangen 2  
DK-2690 Karlslunde  
Denmark

> Phone +45 4616 5100  
Fax +45 4616 5200  
www.dnp-screens.com  
dnp@dnp.dk



## Gain chart

