



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. 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
- > Extraordinary high brightness
- > Multiple options for focal length
- > Easy-clean surface
- > Compatible with all standard projectors

Application suitability	
Auditorium/sports arena	★ ★
Conference room	★ ★
Control room	★ ★ ★ ★ ★ ★
TV studio	★ ★ ★
Advertising – in-store	★ ★ ★
Advertising – window display	★ ★ ★ ★ ★ ★
Home entertainment – bright living room	★ ★ ★
Home entertainment – darkened home theatre	★

dnp Ultra Contrast Screen™ Specifications

Product details

Ultra Contrast Screen Type		UCS 772	UCS 826	UCS 870	UCS 930	UCS 1100	UCS 1600
Screen size		50"	50"	50"	60"	60"	60"
Frame outside dimensions							
Width	mm	1040 +/-1	1040 +/-1	1040 +/-1	1244 +/-1	1244 +/-1	1244 +/-1
Height	mm	790 +/-1	790 +/-1	790 +/-1	939 +/-1	939 +/-1	939 +/-1
Thickness	mm	4.1 +/-0.3	4.1 +/-0.3	4.1 +/-0.3	4.1 +/-0.3	4.1 +/-0.3	4.1 +/-0.3
Weight	kg	3.4	3.4	3.4	4.5	4.5	4.5
Width	inch	40.9 +/-0.04	40.9 +/-0.04	40.9 +/-0.04	49 +/-0.04	49 +/-0.04	49 +/-0.04
Height	inch	31.1 +/-0.04	31.1 +/-0.04	31.1 +/-0.04	37 +/-0.04	37 +/-0.04	37 +/-0.04
Thickness	inch	0.16 +/-0.01	0.16 +/-0.01	0.16 +/-0.01	0.16 +/-0.01	0.16 +/-0.01	0.16 +/-0.01
Weight	lbs	7.5	7.5	7.5	9.9	9.9	9.9
Image area							
Width	mm	1016	1016	1016	1219	1219	1219
Height	mm	762	762	762	914	914	914
Width	inch	40	40	40	48	48	48
Height	inch	30	30	30	36	36	36
Optical specifications							
Focal length	mm	772	826	870	930	1100	1600
Focal length	inch	30.4	32.5	34.3	36.6	43.3	63
Ultra Contrast Screen Type							
Screen size		UCS 1100	UCS 1200	UCS 1600	UCS 1360	UCS 1450	
		70"	70"	70"	80"	80"	
Frame outside dimensions							
Width	mm	1404 +/-1	1404 +/-1	1404 +/-1	1625 +/-1	1625 +/-1	
Height	mm	1054 +/-1	1054 +/-1	1054 +/-1	1219 +/-1	1219 +/-1	
Thickness	mm	4.1 +/-0.3	4.1 +/-0.3	4.1 +/-0.3	4.1 +/-0.3	4.1 +/-0.3	
Weight	kg	6.1	6.1	6.1	5.7	5.7	
Width	inch	55.3 +/-0.04	55.3 +/-0.04	55.3 +/-0.04	64.0 +/-0.04	64 +/-0.04	
Height	inch	41.5 +/-0.04	41.5 +/-0.04	41.5 +/-0.04	48.0 +/-0.04	48 +/-0.04	
Thickness	inch	0.16 +/-0.01	0.16 +/-0.01	0.16 +/-0.01	0.16 +/-0.01	0.16 +/-0.01	
Weight	lbs	13.4	13.4	13.4	12.5	12.5	
Image area							
Width	mm	1400	1400	1400	1600	1600	
Height	mm	1050	1050	1050	1200	1200	
Width	inch	55.1	55.1	55.1	63	63	
Height	inch	41.3	41.3	41.3	47.2	47.2	
Optical specifications							
Focal length	mm	1100	1200	1600	1360	1450	
Focal length	inch	43.3	47.2	63	53.5	57.1	

Other focal lengths and screen sizes are available on request.
Subject to change without notice. Please check specification at time of ordering.

dnp Ultra Contrast Screen™ Specifications

Product details

Ultra Contrast Screen Type Screen size	UCS 826 RI 50"	UCS 870 RI 50"	UCS 930 RI 60"	UCS 1600 RI 67"
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Frame outside dimensions

Width	mm	1040 +/-1	1040 +/-1	1244 +/-1	1365 +/-1
Height	mm	790 +/-1	790 +/-1	939 +/-1	1060 +/-1
Thickness	mm	6.6 +/-0.5	6.6 +/-0.5	6.6 +/-0.5	6.6 +/-0.5
Weight	kg	6.4	6.4	9.5	11.8
Width	inch	40.7 +/-0.04	40.7 +/-0.04	49 +/-0.04	53.7 +/-0.04
Height	inch	30.7 +/-0.04	30.7 +/-0.04	37 +/-0.04	41.7 +/-0.04
Thickness	inch	0.26 +/-0.02	0.26 +/-0.02	0.26 +/-0.02	0.26 +/-0.04
Weight	lbs	14.1	14.1	20.9	26

Image area

Width	mm	1016	1016	1219	1340
Height	mm	762	762	914	1035
Width	inch	40	40	48	52.8
Height	inch	30	30	36	40.7

Optical specifications

Focal length	mm	826	870	930	1600
Focal length	inch	32.5	34.3	36.6	47.2

Ultra Contrast Screen Type Screen size	UCS 1600 RI 60"	UCS 1100 RI 67"	UCS 1200 RI 67"	UCS 1600 RI 67"
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Frame outside dimensions

Width	mm	1244 +/-1	1365 +/-1	1365 +/-1	1365 +/-1
Height	mm	939 +/-1	1060 +/-1	1060 +/-1	1060 +/-1
Thickness	mm	6.6 +/-0.5	6.6 +/-0.5	6.6 +/-0.5	6.6 +/-0.5
Weight	kg	9.5	11.8	11.8	11.8
Width	inch	49 +/-0.04	53.7 +/-0.04	53.7 +/-0.04	53.7 +/-0.04
Height	inch	37 +/-0.04	41.7 +/-0.04	41.7 +/-0.04	41.7 +/-0.04
Thickness	inch	0.26 +/-0.02	0.26 +/-0.02	0.26 +/-0.02	0.26 +/-0.04
Weight	lbs	20.9	26	26	26

Image area

Width	mm	1219	1340	1340	1340
Height	mm	914	1035	1035	1035
Width	inch	48	52.8	52.8	52.8
Height	inch	36	40.7	40.7	40.7

Optical specifications

Focal length	mm	1600	1100	1200	1600
Focal length	inch	47.2	43.3	47.2	47.2

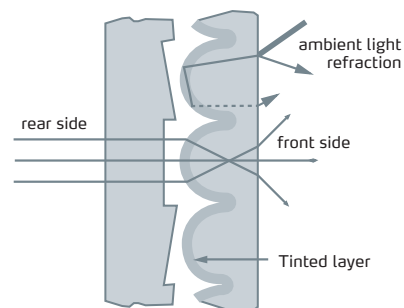
Other focal lengths and screen sizes are available on request.

Subject to change without notice. Please check specification at time of ordering.

dnp Ultra Contrast Screen™ General information

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	Ultra Contrast Screen		Ultra Contrast Screen - Rigid
Peak gain	3.5 +/-0.5		2.7 +/-0.5
Lenticular pitch	0.14		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 ⁻⁶ m/m/°C)			
Fresnel element	70		
Front side element	70		
See graph for details on humidity expansion			
Included in the package			
Gloves, quality certificate			

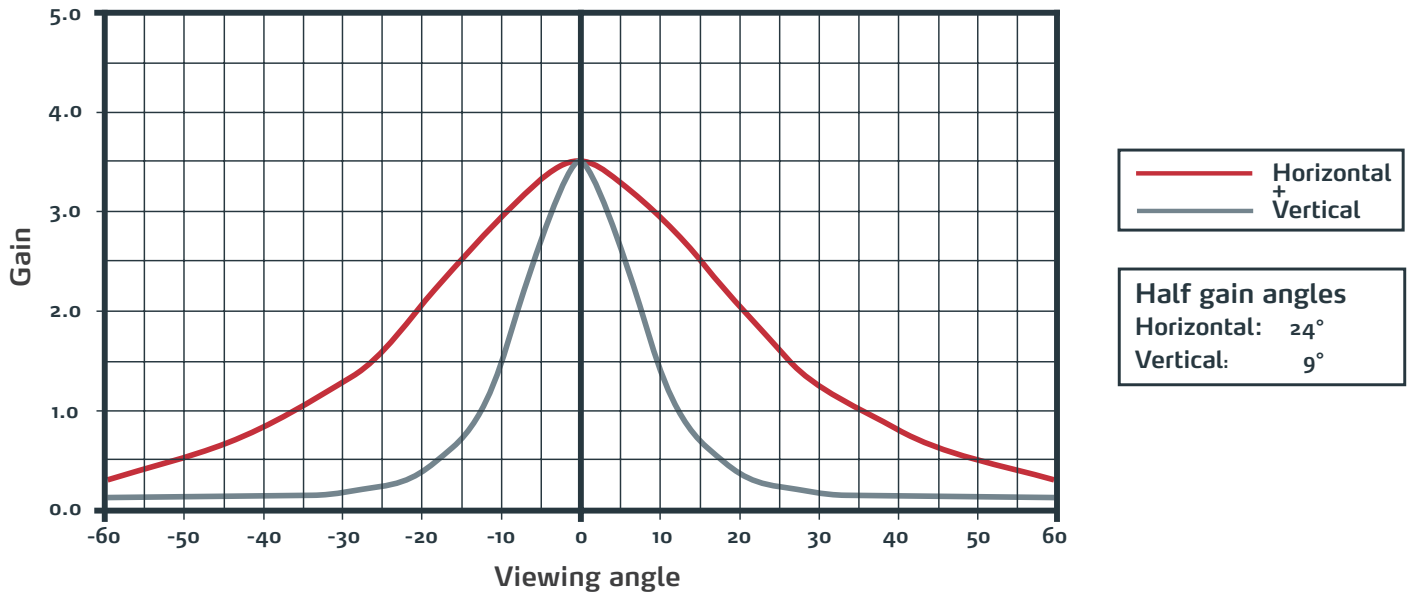
Certificates



dnp Ultra Contrast Screen™ General information

Gain charts

Ultra Contrast Screen Standard



Rigid Ultra Contrast Screen

