



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	★

Product details

Ultra Contrast Screen Type Screen size	UCS 772 50"	UCS 826 50"	UCS 870 50"	UCS 930 60"	UCS 1100 60"	UCS 1600 60"
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Part no.	5 084 2 100 10	5 092 2 100 10	5 100 2 100 10	5 110 2 100 10	5 120 2 100 10
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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	3.6	3.6	3.6	5.2	5.2	5.2
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	8.0	8.0	8.0	11.4	11.4	11.4

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 70"	UCS 1200 70"	UCS 1600 70"	UCS 1360 80"	UCS 1450 80"
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Part no.	5 092 2 100 10	5 100 2 100 10	5 110 2 100 10	5 120 2 100 10
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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	4.6 +/-0.3	4.6 +/-0.3
Weight	kg	6.6	6.6	6.6	9.8	9.8
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	14.4	14.4	14.4	21.6	21.6

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.

Product details

Ultra Contrast Screen Type	UCS 826 RI	UCS 870 RI	UCS 930 RI	UCS 1600 RI
Screen size	50"	50"	60"	60"

Part no.	5 084 2 100 10	5 092 2 100 10	5 100 2 100 10	5 110 2 100 10
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Dimensions

Width	mm	1040 +/-1	1040 +/-1	1244 +/-1	1244 +/-1
Height	mm	790 +/-1	790 +/-1	939 +/-1	939 +/-1
Thickness	mm	6.6 +/-0.5	6.6 +/-0.5	6.6 +/-0.5	6.6 +/-0.5
Weight	kg	5.9	5.9	8.3	8.3
Width	inch	40.7 +/-0.04	40.7 +/-0.04	49 +/-0.04	49 +/-0.04
Height	inch	30.7 +/-0.04	30.7 +/-0.04	37 +/-0.04	37 +/-0.04
Thickness	inch	0.26 +/-0.02	0.26 +/-0.02	0.26 +/-0.02	0.26 +/-0.02
Weight	lbs	12.9	12.9	18.3	18.3

Image area

Width	mm	1016	1016	1219	1219
Height	mm	762	762	914	914
Width	inch	40	40	48	48
Height	inch	30	30	36	36

Optical specifications

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

Ultra Contrast Screen Type	UCS 1100 RI	UCS 1200 RI	UCS 1600 RI
Screen size	67"	67"	67"

Part no.	5 092 2 100 10	5 100 2 100 10	5 110 2 100 10
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Dimensions

Width	mm	1365 +/-1	1365 +/-1	1365 +/-1
Height	mm	1060 +/-1	1060 +/-1	1060 +/-1
Thickness	mm	6.6 +/-0.5	6.6 +/-0.5	6.6 +/-0.5
Weight	kg	10.3	10.3	10.3
Width	inch	53.7 +/-0.04	53.7 +/-0.04	53.7 +/-0.04
Height	inch	41.7 +/-0.04	41.7 +/-0.04	41.7 +/-0.04
Thickness	inch	0.26 +/-0.02	0.26 +/-0.02	0.26 +/-0.04
Weight	lbs	22.7	22.7	22.7

Image area

Width	mm	1340	1340	1340
Height	mm	1035	1035	1035
Width	inch	52.8	52.8	52.8
Height	inch	40.7	40.7	40.7

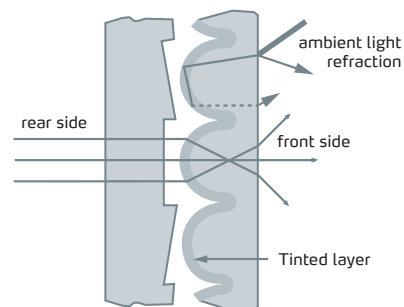
Optical specifications

Focal length	mm	1100	1200	1600
Focal length	inch	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.

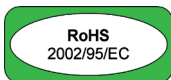
Screen profile (horizontal section)

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.



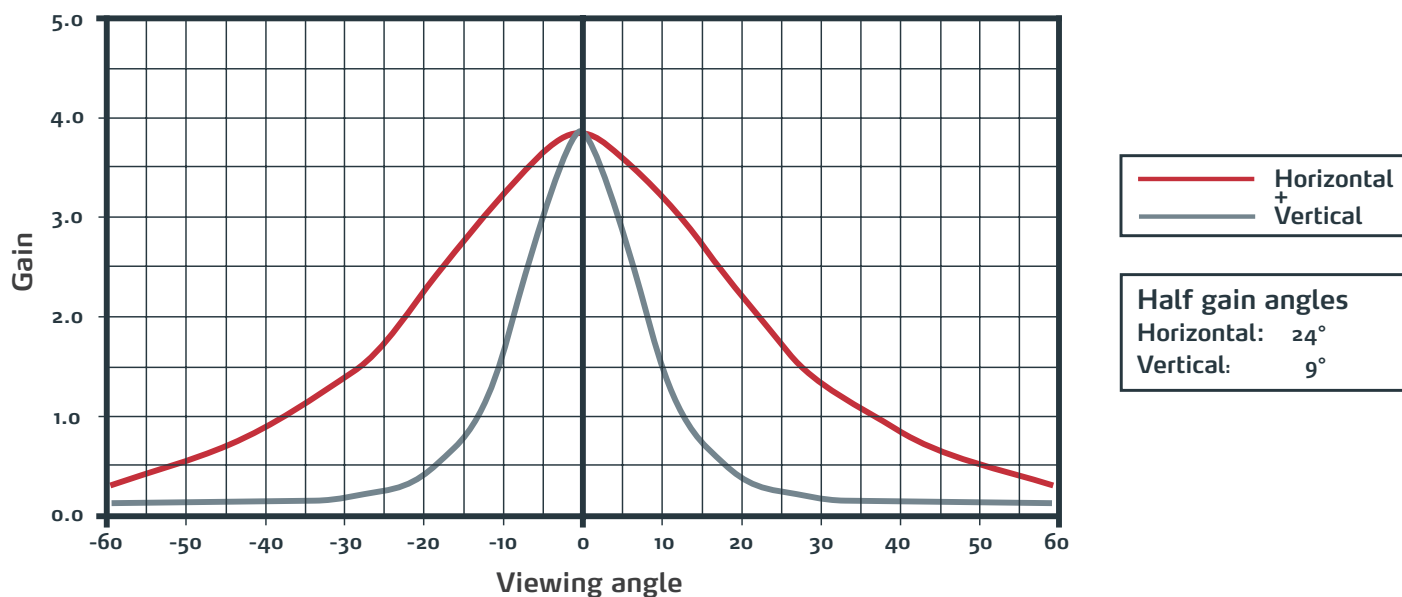
General specifications

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		



Gain charts

Ultra Contrast Screen Standard



Rigid Ultra Contrast Screen

