



The dnp Supernova One is a revolutionary front projection screen that is ideal for brightly lit environments. Featuring an active high-contrast filter, the screen reflects the projected image while effectively absorbing incident light from other angles. The result is vivid, sharp pictures with up to 7 times higher contrast than conventional front screens.



dnp optical front projection screens

Award-winning Supernova Screens combine the superior image quality of optical rear projection with the minimal space requirements and installation ease of front projection. The Supernova One's advanced optical technology opens up vast new opportunities for quality viewing in brightly lit surroundings such as conference rooms, shopping centres and exhibition halls. For home entertainment purposes, it eliminates the need for a dedicated darkened room.

Conventional front screens operate with contrast ratios in the range of 2-3:1 at 500 LUX ambient light and are traditionally associated with dark rooms, curtains and window blinds. They reflect ambient light as much as the projector's light, creating poor contrast levels. These low contrast ratios often cause eyestrain – and make it hard for the audience to concentrate. The Supernova One is the world's first front projection screen to break the 15:1 contrast barrier, which is the empirical standard for acceptable contrast. It delivers clear, crisp images with full colour saturation and prevents eyestrain regardless of viewing position. The Supernova One is compatible with all standard table or wall-mounted projectors and is available in three types of screen materials:

ISF-certified Supernova 08-85 for high contrast and extreme viewing angles, Supernova 23-23 for high contrast and high brightness, or Supernova 20-20 for ultra-high contrast and ultra-high brightness. It is easy to install and can be hung from the wall or suspended from the ceiling. The screen is available in three elegant frame alternatives: silver-grey aluminium, black aluminium or black velvet.

- > Optical front projection
- > Projection in brightly lit environments
- > Up to 7 times higher contrast than conventional front screens
- > Ergonomic viewing
- > Award-winning screen technology
- > Easy to install
- > Compatible with all standard projectors
- > Screen sizes up to 120" in 16:9 and 100" in 4:3 format
- > 110" available in 16:10 and 114" in 2.35:1 format
- > Special sizes and formats available on request
- > ISF-certified screen material available

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 Supernova™ One Specifications

Product details

Aspect ratio		4:3 format						16:9 format
Screen size		84"	100"	84"	92"	100"	110"	120"
Image area								
Width	mm	1707	2020	1860	2037	2214	2435	2657
Height	mm	1280	1515	1046	1146	1245	1370	1494
Width	inch	67.2	79.5	73.2	80.2	87.2	95.9	104.6
Height	inch	50.4	59.6	41.2	45.1	49.0	53.9	58.8
Outer dimensions (including frame) - aluminium frame version								
Width	mm	1858	2171	2011	2188	2365	2586	2808
Height	mm	1431	1666	1197	1297	1396	1521	1645
Width	inch	73.1	85.5	79.2	86.1	93.1	101.8	110.5
Height	inch	56.3	65.6	47.1	51.0	55.0	59.9	64.8
Outer dimensions (including frame) - black velvet frame version								
Width	mm	1828	2153	1981	2158	2335	2556	2778
Height	mm	1401	1645	1167	1267	1366	1491	1615
Width	inch	72.0	84.8	78.0	84.9	91.9	100.6	109.4
Height	inch	55.2	64.8	45.9	49.9	53.8	58.7	63.6
Shipping dimensions								
Length	mm	2080	2400	2150	2400	2500	2500	3030
Height	mm	1650	1900	1370	1510	1550	1550	1860
Width	mm	110	110	110	110	110	110	110
Length	inch	81.9	94.5	84.6	94.5	98.4	98.4	119.3
Height	inch	65.0	74.8	53.9	59.4	61.0	61.0	73.2
Width	inch	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Weight								
Screen (net)	kg	16	21	15	17	20	23	27
Shipping (gross)	kg	21	28	19	23	25	29	35
Screen (net)	lbs	36	47	33	38	44	51	59
Shipping (gross)	lbs	47	61	43	50	56	63	76
Projection information (Supernova 08-85 screen material)								
Minimum lens throw ratio	ltr	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
Minimum projection distance***	mm	2560	3048	2789	3055	3321	3653	3985
	ft	8.4	10.0	9.2	10.0	10.9	12.0	13.1
Projection information (Supernova 20-20 and 23-23 screen materials)								
Minimum lens throw ratio	ltr	1.8:1	1.8:1	1.8:1	1.8:1	1.8:1	1.8:1	1.8:1
Minimum projection distance***	mm	3072	3658	3347	3666	3985	4383	4782
	ft	10.1	12.0	11.0	12.0	13.1	14.4	15.7

*) Image width is different for black velvet frame version: 2032 mm 80.0 inch

**) Image height is different for velvet frame version: 1524 mm 60.0 inch

***) Based on 16:9 screen width for 2.35:1 screens

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

dnp Supernova™ One Specifications

Product details

Aspect ratio		84"	100"	16:10 format 110"	100"	2.35:1 format 114"
Screen size						
Image area						
Width	mm	1809	2154	2369	2337	2664
Height	mm	1131	1346	1481	995	1134
Width	inch	71.2	84.8	93.3	92.0	104.9
Height	inch	44.5	53.0	58.3	39.2	44.6
Outer dimensions (including frame) - aluminium frame version						
Width	mm	1960	2305	2520	2488	2815
Height	mm	1282	1497	1632	1146	1285
Width	inch	77.2	90.7	99.2	98.0	110.8
Height	inch	50.5	58.9	64.2	45.1	50.6
Outer dimensions (including frame) - black velvet frame version						
Width	mm	1930	2275	2490	2458	2785
Height	mm	1252	1467	1602	1116	1255
Width	inch	76.0	89.6	98.0	96.8	109.7
Height	inch	49.3	57.8	63.1	43.9	49.4
Shipping dimensions						
Length	mm	2400	3030	3030	3030	3030
Height	mm	1510	1860	1860	1860	1860
Width	mm	110	110	110	110	110
Length	inch	94.5	119.3	119.3	119.3	119.3
Height	inch	59.4	73.2	73.2	73.2	73.2
Width	inch	4.3	4.3	4.3	4.3	4.3
Weight						
Screen (net)	kg	16	21	24	18	22
Shipping (gross)	kg	21	29	32	26	30
Screen (net)	lbs	34	45	53	39	48
Shipping (gross)	lbs	46	63	71	57	66
Projection information (Supernova o8-85 screen material)						
Minimum lens throw ratio	ltr	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
Minimum projection distance***	mm	2714	3231	3554	2652	3023
	ft	8.9	10.6	11.7	8.7	9.9
Projection information (Supernova 20-20 and 23-23 screen materials)						
Minimum lens throw ratio	ltr	1.8:1	1.8:1	1.8:1	1.8:1	1.8:1
Minimum projection distance***	mm	3257	3877	4265	3183	3628
	ft	10.7	12.7	14.0	10.4	11.9

***) Based on 16:9 screen width for 2.35:1 screens

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dnp Supernova™ One **General information**

General information

Available screen material		o8-85	20-20	23-23
Peak gain		0.8	2.7	2.3
Horizontal half-gain angle	°	85	20	23
Lens pitch	micron	65	65	65

Frame				
Standard frame designs		Silver aluminium	Black aluminium	Black velvet
Width	mm	60	60	60
Depth	mm	31	31	31
Width	inch	2.4	2.4	2.4
Depth	inch	1.2	1.2	1.2
Flock between image and frame	mm	15	15	-
	inch	0.6	0.6	-

Operating environment			
Temperature	°C	10-40	
	°F	50-104	
Humidity (non-condensing)	%RH	10-70	

Included in the package
Screen, wall mounting kit, installation manual (EN)

Optional
Floor stand

Certificates



o8-85 screen material

Awards

dnp optical screens have won numerous awards including the Best Buzz Award at InfoComm in 2005 and 2006, Honoree Awards at CES in 2006, 2007 and 2008, and the Exc!te award at CEDIA US 2007.

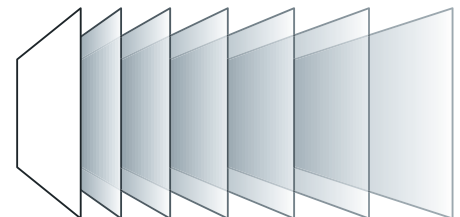


7 layers for up to 10 times more contrast

The Supernova Screen is made up of 7 high-tech layers that actively ensure a superior viewing experience. Layers include:

- > Unique optical lens film to reduce the impact of ambient light and thereby ensure better image contrast.
- > Technologically advanced reflection layer for revolutionary half-gain angles up to +/- 85°.
- > Black colour layer that sets new standards for colour reproduction.
- > Hard surface coating for screen scratch resistance and easy handling and a no-shimmer image.

These unique properties have earned Supernova o8-85 screen material ISF approval. 



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