



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 two types of screen materials: ISF-certified Supernova 08-85 for high contrast and extreme viewing angles or Supernova 23-23 for

high contrast and high brightness. It is easy to install and can be hung from the wall or suspended from the ceiling. The screen is available in two elegant frame alternatives: silver-grey aluminium or black aluminium.

- > 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 up to 110" in 16:10
- > Special sizes and formats available on request
- > ISF-certified screen material available
- > 4K compatible

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

## Product details

Aspect ratio		84"	92"	100"	110"	16:9 format
Screen size						120"

Part no.	23-23 Silvergrey Alu	510 13 084 121	510 13 092 121	510 13 100 121	510 13 110 121	510 13 120 121
	23-23 Black Alu	510 13 084 111	510 13 092 111	510 13 100 111	510 13 110 111	510 13 120 111
Part no.	08-85 Silvergrey Alu	510 11 084 121	510 11 092 121	510 11 100 121	510 11 110 121	510 11 120 121
	08-85 Black Alu	510 11 084 111	510 11 092 111	510 11 100 111	510 11 110 111	510 11 120 111

### Image area

Width	mm	1860	2037	2214	2435	2657
Height	mm	1046	1146	1245	1370	1494
Width	inch	73.2	80.2	87.2	95.9	104.6
Height	inch	41.2	45.1	49.0	53.9	58.8

### Outer dimensions (including frame) - aluminium frame version

Width	mm	2011	2188	2365	2586	2808
Height	mm	1197	1297	1396	1521	1645
Width	inch	79.2	86.1	93.1	101.8	110.5
Height	inch	47.1	51.0	55.0	59.9	64.8

### Outer dimensions (including frame) - black velvet frame version

Width	mm	1981	2158	2335	2556	2778
Height	mm	1167	1267	1366	1491	1615
Width	inch	78.0	84.9	91.9	100.6	109.4
Height	inch	45.9	49.9	53.8	58.7	63.6

### Shipping dimensions

Length	mm	2150	2400	2500	2500	3030
Height	mm	1370	1510	1550	1550	1860
Width	mm	110	110	110	110	110
Length	inch	84.6	94.5	98.4	98.4	119.3
Height	inch	53.9	59.4	61.0	61.0	73.2
Width	inch	4.3	4.3	4.3	4.3	4.3

### Weight

Screen (net)	kg	15	17	20	23	27
Shipping (gross)	kg	19	23	25	29	35
Screen (net)	lbs	33	38	44	51	59
Shipping (gross)	lbs	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
Minimum projection distance	mm	2789	3055	3321	3653	3985
	ft	9.2	10.0	10.9	12.0	13.1

### Projection information (Supernova 23-23 screen material)

Minimum lens throw ratio	ltr	1.8:1	1.8:1	1.8:1	1.8:1	1.8:1
Minimum projection distance	mm	3347	3666	3985	4383	4782
	ft	11.0	12.0	13.1	14.4	15.7

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

## Product details

Aspect ratio				16:10 format
Screen size		84"	100"	110"

Part no.	23-23 Silvergrey Alu	510 13 084 321	510 13 100 321	510 13 110 321
	23-23 Black Alu	510 13 084 311	510 13 100 311	510 13 110 311
	08-85 Silvergrey Alu	510 11 084 321	510 11 100 321	510 11 110 321
	08-85 Black Alu	510 11 084 311	510 11 100 311	510 11 110 311

Image area				
Width	mm	1809	2154	2369
Height	mm	1131	1346	1481
Width	inch	71.2	84.8	93.3
Height	inch	44.5	53.0	58.3

Outer dimensions (including frame) - aluminium frame version				
Width	mm	1960	2305	2520
Height	mm	1282	1497	1632
Width	inch	77.2	90.7	99.2
Height	inch	50.5	58.9	64.2

Outer dimensions (including frame) - black velvet frame version				
Width	mm	1930	2275	2490
Height	mm	1252	1467	1602
Width	inch	76.0	89.6	98.0
Height	inch	49.3	57.8	63.1

Shipping dimensions				
Length	mm	2400	3030	3030
Height	mm	1510	1860	1860
Width	mm	110	110	110
Length	inch	94.5	119.3	119.3
Height	inch	59.4	73.2	73.2
Width	inch	4.3	4.3	4.3

Weight				
Screen (net)	kg	16	21	24
Shipping (gross)	kg	21	29	32
Screen (net)	lbs	34	45	53
Shipping (gross)	lbs	46	63	71

Projection information (Supernova 08-85 screen material)				
Minimum lens throw ratio	ltr	1.5:1	1.5:1	1.5:1
Minimum projection distance	mm	2714	3231	3554
	ft	8.9	10.6	11.7

Projection information (Supernova 23-23 screen material)				
Minimum lens throw ratio	ltr	1.8:1	1.8:1	1.8:1
Minimum projection distance	mm	3257	3877	4265
	ft	10.7	12.7	14.0

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

## General information

Available screen material		08-85	23-23
Peak gain		0.8	2.3
Horizontal half-gain angle	°	85	23
Lens pitch	micron	65	65

Frame		Silver aluminium	Black aluminium
Standard frame designs			
Width	mm	60	60
Depth	mm	31	31
Width	inch	2.4	2.4
Depth	inch	1.2	1.2
Masking 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

**Optional**  
Floor stand

**Compatibility/Certificates**



08-85 screen material

**Awards**  
dnp optical screens have won numerous awards including the Best Buzz Award at InfoComm, Honoree Awards at CES and the Excite 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 08-85 screen material ISF approval. 

