

You appreciate the cost-effectiveness of Ultra-Short-Throw projectors and the convenience they offer when installing AV systems in compact spaces. But what about the lack of contrast in bright environments? dnp's extended family of Short Throw Screens meets this challenge head on! Our three Supernova ST screens are the perfect complement to UST projectors, boosting contrast and enhancing image quality in a series of challenging user environments.

Popular and cost-effective UST projectors

The popularity of Ultra-Short-Throw (UST) projectors is increasing. They are not only very cost-effective, but can also be mounted above or below a screen with a very short projection distance. Thanks to series of recent advances, the use of UST projectors is being extended beyond the traditional areas of classrooms and meeting rooms into a variety of new situations.

Team up with a dnp ST Screen

The only downside users experience with UST projectors is their lack of power, and hence contrast, in bright environments. Now, dnp offers Supernova STS, STE and STW screen models to meet this challenge head on. Thanks to unique optical lens technologies, these specially adapted screens provide the perfect complement to UST projectors, overcoming the contrast problem.

Bigger and more cost-effective than LCD flat screens

Projection solutions with the new dnp ST Screens offer large high-contrast images at a fraction of the cost of an LED/LCD flat screen. A 100" dnp ST Screen paired with a suitable projector cost around 50% of a leading-brand LED-backlit LCD screen. And, if the display includes a laser projector, low running costs and no lamp changes will drive down the total cost of ownership.

A family of three

With its three-strong ST screen offer, dnp enables the extension of this attractive and convenient projection technology into an even wider range user scenarios. Solutions are available for everything



dnp optical front projection screens

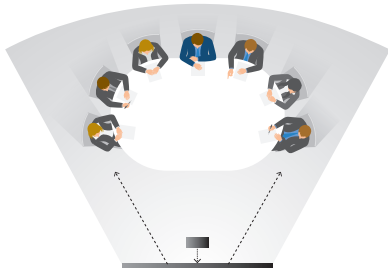
from conventional meeting rooms, to control room and simulation displays, and even digital signage. Each of the three models incorporates specific lens technologies optimised for different viewing environments.

- > Unique optical screen technologies
- > Best-in-class performance with Ultra-Short-Throw-Projectors
- > Compact, space-saving installation design
- > Unrivalled front projection image-contrast
- > Great large size flat screen display value
- > Ready for interactive touch screen applications
- > Screen sizes up to 231" in 46:10
- > Compatible with a wide range of UST projectors

SHORT THROW SCREEN OVERVIEW			
ST version	STS	STW	STE
Peak gain	0.9	0.5	0.5
Horizontal half-gain angle	25°	85°	85°
Lens pitch	100 micron	300 micron	300 micron
Maximum image size	2,214 x 1,245mm	2,657 x 1,494mm	5,727 x 1,245mm
Projector position	Below/above	Below	Below
Application	Standard seating	Wide seating	Edge-blending

dnp Supernova™ STS

Up to 100" (16:9)



dnp Supernova STS - for standard viewing angles

Based on circular Fresnel technology, the STS Screen optimizes the image for standard viewing angles, meaning that people who are seated in front of the screen, quite close to the centre, can enjoy the best possible image quality. The screen is protected by a surface coating that makes it suitable for touch applications. This model can be used with the projector mounted either below or above that screen and is available up to 92" in 16:10 and 100" in 16:9.

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

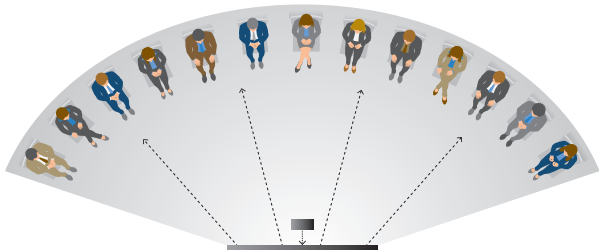
- > Fresnel Lens Technology
- > Optimised for standard viewing
- > Surface coating for touch applications
- > Mounting options – above or below the screen

Compatibility



dnp Supernova™ STW

Up to 120" (16:9)



dnp Supernova STW - for wider seating arrangements

Optimised for wider seating arrangements such as classrooms and auditoriums, the new STW Screen incorporates a black/white lenticular lens structure that absorbs incident light and has a horizontal half gain of 85 degrees. For the optical filter to work properly, the projector should be mounted below the screen. This model is available in 16:9 up to 120" and up to 100" in 16:10.

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

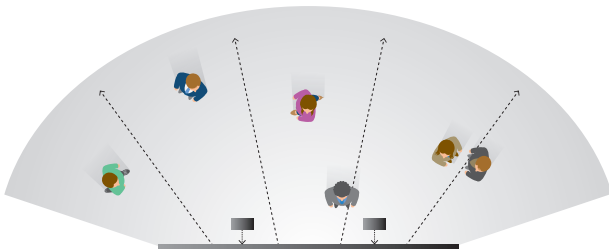
- > Black/White Lenticular Technology
- > For wider seating arrangements
- > Projector to be mounted below the screen

Compatibility



dnp Supernova™ STE

Up to 231" (46:10)



dnp Supernova STE - for seamless images on a wide screen

Designed for edge-blending displays where several projectors generate a seamless image onto a wide screen. The STE Screen material is available in sizes up to 181" in 32:10 (4,384 x 1,370 mm; 172.6" x 53.9") and up to 231" in 46:10 format (5,727 x 1,245 mm; 225.5" x 49.0").

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

- > Black/White Lenticular Technology
- > For multi-projector, edge-blending displays
- > Enables projection of seamless image onto wide screen

Compatibility



Supernova™

> dnp denmark as
Skruegangen 2
DK-2690 Karlslunde
Denmark

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

dnp
visual experience

PRODUCT DETAILS

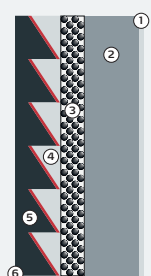
PRODUCT NO.	Limited edition		535 21 092 311	535 21 100 111
	Standard		536 22 092 311	536 22 100 111
IMAGE SIZES	Aspect ratio		16:10	16:9
	Screen size		92"	100"
IMAGE AREA	Width	mm	1,992	2,214
	Height	mm	1,245	1,245
	Width	inch	78.4	87.2
	Height	inch	49.0	49.0
OUTER DIMENSIONS (INCLUDING FRAME)	Width	mm	2,032	2,254
	Height	mm	1,285	1,285
	Width	inch	80.0	88.7
	Height	inch	50.6	50.6
SHIPPING DIMENSIONS	Screen box length	mm	2,365	2,365
	Screen box width	mm	1,415	1,415
	Screen box height	mm	100	100
	Screen box length	inch	93.1	93.1
	Screen box width	inch	55.7	55.7
	Screen box height	inch	3.9	3.9
WEIGHT	Screen (net)	kg	20	22
	Box shipping weight	kg	30	31
	Screen (net)	lbs	44	48
	Box shipping weight	lbs	65	69
OPTIMAL PROJECTOR INFORMATION	Incident angle at screen centre*	°	57	57
	Lens-Throw-Ratio	LTR	0.26	0.23
	Focal length	mm	513	513
		inch	20.0	20.0
	Vertical off-set (to screen centre)	%	126	126
		mm	787	787
		inch	31.0	31.0
Number of projectors			1	1

GENERAL DETAILS INCLUDED IN THE PACKAGE: Screen, wall mounting accessories, installation manual

Model	Film type	Peak gain	Horizontal half-gain angle	Lens pitch	Frame Width	Frame Depth	Environment temperature	Humidity (non-condensing)
STF	STF	0.90	25°	100 micron	20 mm 0.8 inch	20 mm 0.8 inch	10-40° C 50-104° F	10-70 %RH
STF Limited Edition	STF	0.60	30°	100 micron	20 mm 0.8 inch	20 mm 0.8 inch	10-40° C 50-104° F	10-70 %RH

ADVANCED OPTICAL TECHNOLOGY

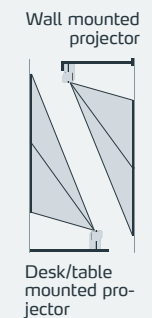
Fresnel Lens Technology
 A half-circle Fresnel lens directs incidental light from the projector towards the audience in front of the screen, instead of reflecting to the ceiling or the floor. This increases the gain and/or increases uniformity, compared to other projection screens. If the projector is below the screen, incidental ambient light enters the passive "back side" of the lens and is not reflected towards the audience. The result is a dramatic improvement in contrast compared to traditional projection screens.



- ① Hard coat layer
- ② Tint layer
- ③ Diffuser layer
- ④ Reflective layer
- ⑤ Fresnel lens
- ⑥ Back coat

INSTALLATION PRINCIPLE

The screen can be installed with the projector positioned either above or below it. However, in environments with high levels of ambient light, dnp recommends mounting the projector below the screen, so that images are projected upwards. In this position, ambient light is blocked from above, leading to even higher image contrast.



*) Where 0° is perpendicular to screen centre

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

PRODUCT DETAILS

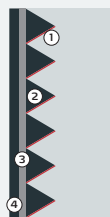
PRODUCT NO.	Standard		537 24 092 301	537 24 100 301	537 24 092 101	537 24 100 101	537 24 110 101	537 24 120 101
IMAGE SIZES	Aspect ratio		16:10	16:10	16:9	16:9	16:9	16:9
	Screen size		92"	100"	92"	100"	110"	120"
IMAGE AREA	Width	mm	1,982	2,154	2,037	2,214	2,435	2657
	Height	mm	1,239	1,346	1,146	1,245	1,370	1494
	Width	inch	78.0	84.8	80.2	87.2	95.9	104.6
	Height	inch	48.8	53.0	45.1	49.0	53.9	58.8
OUTER DIMENSIONS (INCLUDING FRAME)	Width	mm	2,002	2,174	2,057	2,234	2,455	2677
	Height	mm	1,259	1,366	1,166	1,265	1,390	1514
	Width	inch	78.8	85.6	81.0	87.9	96.7	105.4
	Height	inch	49.5	53.8	45.9	49.8	54.7	59.6
SHIPPING DIMENSIONS	Screen box length	mm	2,330	2,330	2,330	2,330	2,773	2773
	Screen box width	mm	370	370	370	370	370	370
	Screen box height	mm	160	160	160	160	160	160
	Screen box length	inch	91.7	91.7	91.7	91.7	109.2	109.2
	Screen box width	inch	14.6	14.6	14.6	14.6	14.6	14.6
	Screen box height	inch	6.3	6.3	6.3	6.3	6.3	6.3
WEIGHT	Screen (net)	kg	12	13	11	12	14	15
	Box shipping weight	kg	20	21	19	20	23	24
	Screen (net)	lbs	26	29	24	26	31	33
	Box shipping weight	lbs	44	46	42	44	51	53
OPTIMAL PROJECTOR INFORMATION	Incident angle at screen centre*	°	≥ 58	≥ 58	≥ 58	≥ 58	≥ 58	≥ 58
	Lens-Throw-Ratio	LTR	≤ 0.25	≤ 0.25	≤ 0.23	≤ 0.23	≤ 0.23	≤ 0.23
	Focal length	mm	≤ 495	≤ 538	≤ 468	≤ 509	≤ 560	≤ 611
		inch	≤ 19.5	≤ 21.2	≤ 18.4	≤ 20.0	≤ 22.1	≤ 24.1
	Vertical off-set (to screen centre)	%	≥ 130	≥ 130	≥ 130	≥ 130	≥ 130	≥ 130
		mm	≥ 805	≥ 875	≥ 744	≥ 809	≥ 890	≥ 971
		inch	≥ 31.7	≥ 34.4	≥ 29.3	≥ 31.9	≥ 35.1	≥ 38.2
Number of projectors		1	1	1	1	1	1	

GENERAL DETAILS INCLUDED IN THE PACKAGE: Screen, wall mounting accessories, installation manual

Film type	Peak gain	Horizontal half-gain angle	Lens pitch	Frame Width	Frame Depth	Environment temperature	Humidity (non-condensing)
STS-L	0.50	85°	300 micron	10 mm 0.4 inch	30 mm 1.2 inch	10-40° C 50-104° F	10-70 %RH

ADVANCED OPTICAL TECHNOLOGY

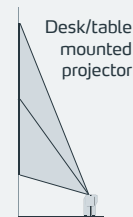
Black/White Lenticular Technology
 This technology involves a triangular, black, horizontal lenticular structure, which is coated with reflecting material on the side facing the UST projector. The black topside of the reflector absorbs ambient light from above, while light from the projector is reflected or diffused by the white coating and sent towards the audience. Best image contrast is achieved when the projector is below the screen and the reflector is pointing downwards.



- ① White reflector
- ② Black lenticular lens
- ③ Substrate
- ④ Backside protection

INSTALLATION PRINCIPLE

The screen should be installed with the projector positioned below it, so that images are projected upwards. In this position, ambient light is blocked from above, leading to even higher image contrast.

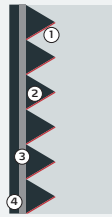
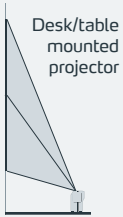


*) Where 0° is perpendicular to screen centre

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

PRODUCT DETAILS							
PRODUCT NO.	Standard		537 24 151 731	537 24 164 731	537 24 181 731	537 24 212 831	537 24 231 831
IMAGE SIZES	Aspect ratio		32:10	32:10	32:10	46:10	46:10
	Screen size		151"	164"	181"	212"	231"
IMAGE AREA	Width	mm	3,667	3,984	4,384	5,272	5,727
	Height	mm	1,146	1,245	1,370	1,146	1,245
	Width	inch	144.4	156.9	172.6	207.5	225.5
	Height	inch	45.1	49.0	53.9	45.1	49.0
OUTER DIMENSIONS (INCLUDING FRAME)	Width	mm	3,807	4,124	4,524	5,412	5,867
	Height	mm	1,286	1,385	1,510	1,286	1,385
	Width	inch	149.9	162.4	178.1	213.1	231.0
	Height	inch	50.6	54.5	59.4	50.6	54.5
SHIPPING DIMENSIONS	Screen box length	mm	1,380	1,680	1,680	1,380	1,680
	Screen box width	mm	400	400	400	400	400
	Screen box height	mm	400	400	400	400	400
	Screen box length	inch	54.3	66.1	66.1	54.3	66.1
	Screen box width	inch	15.7	15.7	15.7	15.7	15.7
	Screen box height	inch	15.7	15.7	15.7	15.7	15.7
	Frame tube length	mm	3,950	4,200	4,600	5,500	5,950
	Frame tube diameter	mm	152	152	152	152	152
	Frame tube diameter	inch	6.0	6.0	6.0	6.0	6.0
WEIGHT	Screen (net)	kg	17	19	21	23	25
	Box shipping weight	kg	12	13	13	13	14
	Tube shipping weight	kg	22	24	26	30	32
	Screen (net)	lbs	37	42	46	51	55
	Box shipping weight	lbs	26	29	29	29	31
	Tube shipping weight	lbs	49	53	57	66	71
OPTIMAL PROJECTOR INFORMATION	Incident angle at screen centre*	°	≥ 58	≥ 58	≥ 58	≥ 58	≥ 58
	Lens-Throw-Ratio	LTR	≤ 0.23	≤ 0.23	≤ 0.23	≤ 0.23	≤ 0.23
	Focal length	mm	≤ 468	≤ 509	≤ 560	≤ 468	≤ 509
		inch	≤ 18.4	≤ 20.0	≤ 22.1	≤ 18.4	≤ 20.0
	Vertical off-set (to screen centre)	%	≥ 130	≥ 130	≥ 130	≥ 130	≥ 130
		mm	≥ 744	≥ 809	≥ 890	≥ 744	≥ 809
		inch	≥ 29.3	≥ 31.9	≥ 35.1	≥ 29.3	≥ 31.9
Number of projectors (overlap %)		2x 16:9 (20%)	2x 16:9 (20%)	2x 16:9 (20%)	3x 16:9 (21%)	3x 16:9 (21%)	
		2x 16:10 (0%)	2x 16:10 (0%)	2x 16:10 (0%)	3x 16:10 (6%)	3x 16:10 (6%)	
		3x 16:10 (50%)	3x 16:10 (50%)	3x 16:10 (50%)	4x 16:10 (38%)	4x 16:10 (38%)	

GENERAL DETAILS		INCLUDED IN THE PACKAGE: Screen, wall mounting accessories, installation manual					
Film type	Peak gain	Horizontal half-gain angle	Lens pitch	Frame Width	Frame Depth	Environment temperature	Humidity (non-condensing)
STS-L	0.5	85°	300 micron	70 mm 2.8 inch	50 mm 2.0 inch	10-40° C 50-104° F	10-70 %RH

ADVANCED OPTICAL TECHNOLOGY	INSTALLATION PRINCIPLE
<p>Black/White Lenticular Technology</p> <p>This technology involves a triangular, black, horizontal lenticular structure, which is coated with reflecting material on the side facing the UST projector. The black topside of the reflector absorbs ambient light from above, while light from the projector is reflected or diffused by the white coating and sent towards the audience. Best image contrast is achieved when the projector is below the screen and the reflector is pointing downwards.</p> 	<p>The screen should be installed with the projector positioned below it, so that images are projected upwards. In this position, ambient light is blocked from above, leading to even higher image contrast.</p> 

*) Where 0° is perpendicular to screen centre Subject to change without notice. Please check specification at time of ordering.

WALL MOUNT+ FOR 100" 16:9		dnp Supernova STS	dnp Supernova STW
PRODUCT NO.		751002	751003
MATERIAL		Galvanized steel	Galvanized steel

DIMENSIONS

Length	mm	2,125	2,000
Distance between wall hanging points	mm	963	900
Distance between screen hanging points	mm	2,086	1,658
Length	inch	83,7	78,7
Distance between wall hanging points	inch	37,9	35,4
Distance between screen hanging points	inch	82,1	65,3

SHIPPING DIMENSIONS

Length	mm	2,210	2,080
Width	mm	150	150
Height	mm	50	70
Length	inch	87,0	81,9
Width	inch	5,9	5,9
Height	inch	2,0	2,8

WEIGHT

Wall Mount+ weight (net)	kg	5	5
Shipping weight (gross)	kg	6,5	6,5
Wall Mount+ weight (net)	lbs	11,0	11,0
Shipping weight (gross)	lbs	14,3	14,3



The Wall Mount+ ensures quick installation of perfectly flat images on non-flat walls. The wall mount consists of a top bar with built-in mounts for the screen and two steel wires that connect the top part to a lower bar for perfect positioning. Only for 100" 16:9.