

dnp Image Builder™



Screens of the art

Make your solution complete with **dnp Image Builder™**

Creating the perfect image requires a good projector and a state-of-the-art rear projection screen. But how do you ensure that these components perform to the very best of their ability?

dnp Image Builder is a complete range of professional rear projection modules which allow you to build your system quickly and easily on site – and save valuable time and money aligning mirrors and projectors.

At the heart of dnp Image Builder are our rigs – in single or twin mirror versions: a complete integrated package, including mirrors, projector mount and all interconnecting framework.

The dnp Image Builder rigs are designed to meet almost all of your rearpro installation requirements. To cover all these possibilities, the range consists of:

- = **Single Mirror Rigs**
- = **Twin Mirror Rigs**
- = **ViewFlex Rigs**
- = **Screen Frames**
- = **Optical Glass Mirrors (framed and unframed)**
- = **Special systems and system components**

When you order a standard Image Builder module, we will ask you for relevant installation details in order to make the final configuration of your system. After this, you will receive a full CAD drawing for approval and project documentation. For special projects, we can also provide custom-engineered solutions.

Let us be your “behind the scenes” partner, a secret weapon in your quest to make the ideal installation for your customer!



01.

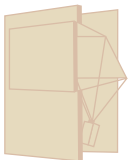
Rigs are minutely adjustable for precision alignment.

02.

The projector mount is compatible with all standard projectors.

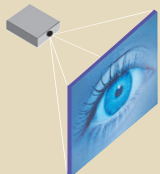
03.

dnp Twin Mirror Rig. The powder coated aluminium frames are built to a tolerance of within +/- 1 mm. Top quality optical glass mirrors ensure the best image quality.



dnp Image Builder technology

dnp Image Builder modules are designed for professionals by professionals with experience from building many hundreds of systems and practical on-site installations. Using the finest quality materials, all components are built to a tolerance of within +/- 1 mm to meet the strict requirements of the professional AV installer and OEM.



Rear projection

Rear projection means that the projector is placed behind the screen, shooting straight forward towards the audience. The optical screen controls the light path and distributes bright, sharp images into a predefined viewing zone. Furthermore, the presenter and the audience can stand in front of the image without casting shadows. And with the projector equipment hidden behind the screen, the viewing area remains quiet, clean and tidy.

03.



Special features

- =Complete range of rearpro accessories
- =Compatible with all rear projection applications
- =Ease of assembly
- =Easily broken down and re-assembled
- =Tolerance of within +/- 1 mm.

The answer to your installation needs

How can you guarantee the best possible image? How can you avoid on-site installation problems? How can you be sure to work within a fixed budget? How can you avoid all those extra hours – and the extra expenses – having to make fine adjustments? dnp Image Builder answers your installation needs in the most comprehensive and practical way you could imagine!

dnp Single Mirror Rigs

The Single Mirror Rigs are the most compact systems, often referred to as a "periscope" or "up and over" system. This configuration is the easiest to install and align.

Single Mirror Rigs are usually used with projectors equipped with wide angle lenses – typically in the range of 0.8:1 to 1.2:1. They come with glass or foil optical mirrors, depending on size and your preference. They offer full adjustment possibilities for both

mirror and projector, so you can deal with unexpected situations when installing.

However you must be sure to use a projector that is suitable for mounting vertically.

If you can provide us with details about the position of the viewers relative to the screen we will also optimize the peak vertical viewing angle for your project. If you use a

projector with vertical shift (i.e. one that can adjust the angle of projection) we can make this an impressively exact feature for you!

Unsure whether to use a Single Mirror or Twin Mirror Rig system? Don't worry, that's what dnp support is all about! The dnp sales team and the dnp Rearpro Designer, our online design tool, will work it all out for you in an instant. And once you've ordered, we will send you a detailed drawing for approval before delivery.

04.

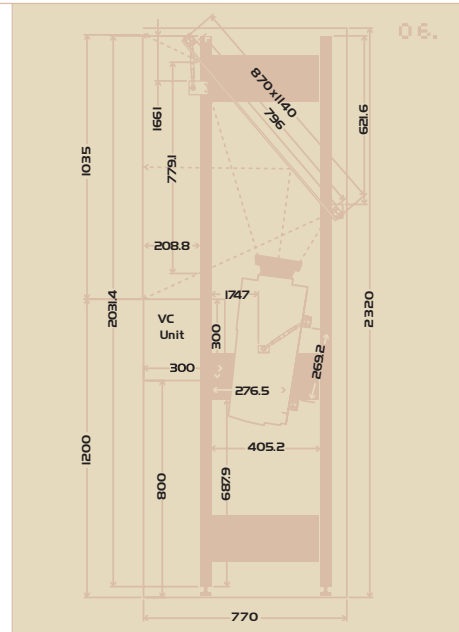


04.

dnp Single Mirror Rigs require little space and are easy to install. Just cut a hole - we do the rest! You save space, time, money & hassle.



05.



06.

05.

3D drawing of a standard Single Mirror Rig.

06.

When you have placed an order for a rig and supplied your individual installation details, you will receive a full 2D CAD drawing for final approval.

Specifications – Single Mirror Rigs

Screen size Product no.		67" 6505	67" 6510	72" 6515	72" 6520	84" 6525	84" 6530	100" 6535
Dimensions		0.8:1 lens	1.2:1 lens	0.8:1 lens	1.2:1 lens	0.8:1 lens	1.2:1 lens	0.8:1 lens
Baseline	mm	1200	1200	1200	1200	1200	1200	1200
Depth	mm	770	1095	840	1140	880	1400	1050
Height	mm	2320	2320	2400	2400	2580	2580	2820
Screen size Product no.		100" 6540	120" 6545	120" 6550	140" 6555	140" 6560	150" 6565	150" 6570
Dimensions		1.2:1 lens	0.8:1 lens	1.2:1 lens	1.0:1 lens	1.2:1 lens	0.9:1 lens	1.2:1 lens
Baseline	mm	1200	1200	1200	1200	1200	1200	1200
Depth	mm	1710	1320	2150	1540	1690	1595	1870
Height	mm	2820	3130	3130	3500	3500	3570	3570
Screen size Product no.		160" 6575	160" 6580	180" 6585	180" 6590	200" 6595	200" 6600	
Dimensions		0.9:1 lens	1.2:1 lens	1.0:1 lens	1.2:1 lens	0.9:1 lens	1.2:1 lens	
Baseline	mm	1200	1200	1200	1200	1200	1200	
Depth	mm	1780	2080	2400	2640	2530	2960	
Height	mm	3780	3780	3980	3980	4260	4260	

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

June 2002

NB. Baseline equals distance from floor to bottom of image

Special rig systems

If your installation requires a modification of a standard rig or a special design, we offer purpose-built engineering – from special rig systems; multi-screen rigs and projector stands; self-contained retro boxes to individual projector mounts. You give us the brief about your projector choice, the room and screen dimensions, and the built-in height of the screen. We do the rest. Contact your local dnp distributor for more details!

dnp Twin Mirror Rigs

The Twin Mirror Rigs are regarded by some dealers as being "free"! Why? Because dealers who have been used to the hassle and expense of building their own systems would always include a wide angle lens in their costs to allow for the use of a simpler single mirror configuration.

But because the wide angle lens option often costs more than a twin mirror complete rig system, you can save on the cost – and gain on the quality!

Twin Mirror Rigs are typically used with projectors equipped with lenses

in the range of 1.2:1 to 2:1 – which includes standard zoom lenses. They use glass or foil optical mirrors, depending on size and your preference. They offer full adjustment possibilities for both mirror and projector, so you can deal with unexpected situations when installing.

The dnp Twin Mirror system is also ideal for projectors that can only be mounted horizontally.

If you can give us details about the position of the viewers relative to the screen we will also optimize the peak vertical viewing angle for your

installation. If you use a projector with vertical shift (i.e. one that can adjust the angle of projection) we can make this an impressively exact feature for you!

Unsure whether to use a Single Mirror or Twin Mirror Rig system? Don't worry, that's what dnp support is all about! The dnp sales team and the Rearpro Designer, our online design tool, will work it all out for you in an instant. And once you've ordered, we will send you a detailed drawing for approval before delivery.

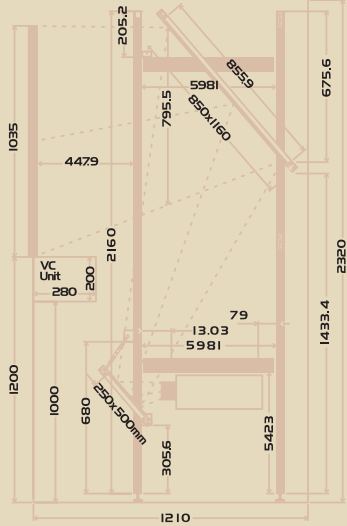
07.



07.

dnp Twin Mirror Rigs are engineered and aligned to a tolerance within +/- 1 mm. Integral dnp Screen Frames are an option with all rigs (not shown here).

08.



09.



08.

When you have placed an order for a rig and supplied your individual installation details, you will receive a full 2D CAD drawing for final approval.

09.

3D drawing of a standard Twin Mirror Rig.

Specifications – Twin Mirror Rigs

Screen size		67"	72"	84"	84"	100"	100"	120"
Product no.		6610	6620	6625	6630	6635	6640	6645
Dimensions		2:1 lens	2:1 lens	1.2:1 lens	2:1 lens	1.2:1 lens	2:1 lens	1.2:1 lens
Baseline	mm	1200	1200	1200	1200	1200	1200	1200
Depth	mm	1210	1320	1240	1540	1340	1870	1650
Height	mm	2320	2400	2580	2580	2820	2820	3130
Screen size		120"	140"	140"	150"	150"	160"	160"
Product no.		6650	6655	6660	6665	6670	6675	6680
Dimensions		2:1 lens	1.2:1 lens	1.7:1 lens	1.2:1 lens	1.6:1 lens	1.2:1 lens	1.5:1 lens
Baseline	mm	1200	1200	1200	1200	1200	1200	1200
Depth	mm	2200	1690	2290	1870	2460	2080	2370
Height	mm	3130	3500	3550	3570	3500	3780	3790
Screen size		180"	180"	200"	200"			
Product no.		6685	6690	6695	6700			
Dimensions		1.2:1 lens	1.8:1 lens	1.2:1 lens	1.7:1 lens			
Baseline	mm	1200	1200	1200	1200			
Depth	mm	2640	3490	2960	3760			
Height	mm	3980	4040	4260	4340			

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

June 2002

NB. Baseline equals distance from floor to bottom of image

Special rig systems

If your installation requires a modification of a standard rig or a special design, we offer purpose-built engineering – from special rig systems; multi-screen rigs and projector stands; self-contained retro boxes to individual projector mounts. You give us the brief about your projector choice, the room and screen dimensions, and the built-in height of the screen. We do the rest. Contact your local dnp distributor for more details!

dnp ViewFlex™ Rigs

The dnp ViewFlex system sets new standards in multi-screen image creation. But this ultra-innovative solution needs an ultra-exact mirror system to provide the edge-to-edge image accuracy required. That's where the dnp ViewFlex Rig has its strengths – allowing you to install this high tech system with ease.

The ViewFlex Rig systems are based on the standard dnp single mirror rigs, but with additional micro-adjusters to ensure the image is perfectly square. This special adjustment will even help you adjust out any slight distortions from the projector lens, as it allows you to actually adjust the shape of the mirror.

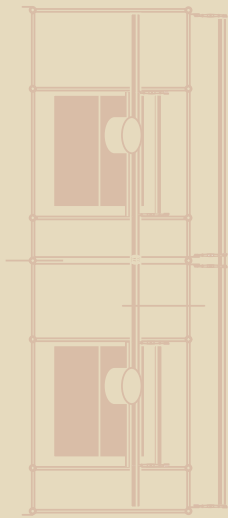
Special options are available for both direct projection and single mirror solutions (i.e. special projector stands for direct projection).



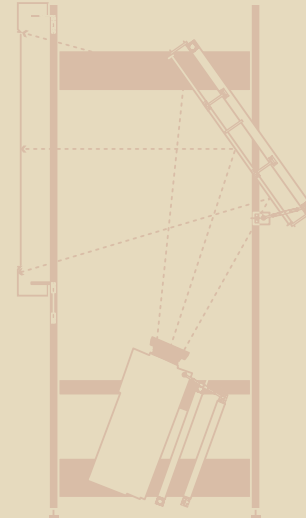
10.

With an image-to-image separation of less than 0.3 mm, the ViewFlex display sets a new benchmark for seamless installations. The dnp ViewFlex Rig features an ultra-exact

11.



12.



11.

Top view. 2D drawing of typical ViewFlex Rig for a two-screen configuration.

12.

Side view. 2D drawing of typical ViewFlex Rig for a two- or three-screen configuration.

Specifications – ViewFlex™ Rigs

Direct projection - projector lens throw 0.8:1

Screen size Product no.		67" 6705	84" 6710	100" 6715	120" 6720	67" 6725	84" 6730	100" 6735	120" 6740
Dimensions		1x2	1x2	1x2	1x2	1x3	1x3	1x3	1x3
Baseline	mm	1200	1200	1200	1200	1200	1200	1200	1200
Depth	mm	2260	2520	2760	3160	2260	2520	2760	3160
Height	mm	2400	2600	3000	3600	2400	2600	3000	3600
Width	mm	3000	3700	4350	5150	4350	5400	6400	7600

Specifications – ViewFlex™ Rigs

One mirror projection - projector lens throw 1.2:1

Screen size Product no.		67" 6755	84" 6760	100" 6765	120" 6770	67" 6775	84" 6780	100" 6785	120" 6790
Dimensions		1x2	1x2	1x2	1x2	1x3	1x3	1x3	1x3
Baseline	mm	1200	1200	1200	1200	1200	1200	1200	1200
Depth	mm	1210	1430	1650	1980	1210	1430	1650	1980
Height	mm	2400	2600	3000	3600	2400	2600	3000	3600
Width	mm	3000	3700	4350	5150	4350	5400	6400	7600

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

June 2002

NB. Baseline equals distance from floor to bottom of image

Special rig systems

If your installation requires a modification of a standard rig or a special design, we offer purpose-built engineering – from special rig systems; multi-screen rigs and projector stands; self-contained retro boxes to individual projector mounts. You give us the brief about your projector choice, the room and screen dimensions, and the built-in height of the screen. We do the rest. Contact your local dnp distributor for more details!

dnp Optical Glass Mirrors

dnp's Optical First Surface Glass Mirrors are used in all our rig systems. We also offer them separately in framed and glass-only formats. The dnp Optical Glass Mirrors are first surface-aluminized onto hand-selected 6 mm float glass to provide an optically perfect finish without ghost image.

In addition they offer three unique benefits for the installer:

1. A peel-off film to allow you to keep the mirrors perfectly clean until the moment they are needed

2. An invisible protective layer on the silvering, to allow the mirrors to be cleaned with a soft cloth

3. A safety backing that keeps the glass from breaking into many large pieces should it be broken. It cannot stop the possibility of smaller fragments falling free - but is a major safety improvement compared to mirrors without this safety backing

dnp Optical Glass Mirrors are produced to US MilSpec MIL-M-13508c specifications and are individually

inspected before shipment. They offer reflectivity of up to 92% +/- 3% and are available up to 2320 x 1740 mm. The weight is 14.4 kg/m². dnp also offers foil mirrors to special order. For mirrors bigger than this, dnp offers customer made optical foil mirrors.



13.
dnp Optical Glass Mirrors are supplied with a protective peel-off film to keep the mirrors perfectly clean until the moment they are needed.

Specifications - dnp Glass Mirrors

Type Product no.		Mirror incl frame 6000	Mirror incl frame 6010	Mirror incl frame 6020	Mirror incl frame 6030
Dimensions					
Width	mm	1270	1430	1740	2150
Height	mm	1067	1054	1244	1470
Thickness	mm	6	6	6	6
Effective Mirror Area					
Width	mm	1258	1418	1728	2138
Height	mm	1055	1042	1232	1458
Frame dimensions					
Width	mm	1308	1468	1778	2188
Height	mm	1153	1140	1331	1556
Thickness	mm	42	42	50	50
Mirror weight	kg	20	23	32	47
Frame weight	kg	10	15	20	30

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

December 2004

dnp Screen Frame System

The dnp Screen Frame System is designed for optimum installation of optical rear projection screens. The frame features a special click-lock system, which makes it easy to mount, move and remount the screen. Also, this unique design makes the frame suitable for both single and double element screens.

dnp screen frames can be ordered separately – or as a complete screen & frame solution, delivered in the same crate and ready-to-install in the wall.

The standard colour of dnp frames is black, which enhances the perceived brightness and contrast of the projected image. The frames are also available in a wide range of colours according to the international RAL colour chart. When ordering a coloured frame, please remember to state the specific RAL colour code (visit www.ral-colours.de for more details).

The dnp Screen Frame System is available in all special screen sizes and formats from 67" - 160".

Screens larger than 160" are supplied as standard in a special frame.

If you order a frame for a specially cut screen, you can calculate the aperture size (the height and width of the hole in the wall) by adding the following amounts to the cut height and cut width of the screen:

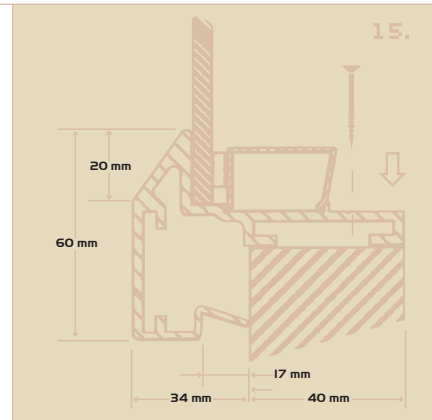
Screens $\leq 84"$: add 32 mm
 Screens $> 84" \leq 125"$: add 34 mm
 Screens $> 125" \leq 160"$: add 36 mm

14.

The dnp Screen Frame features a special click-lock system, which makes it easy to mount, move and re-mount the screen.

15.

This cross section of the dnp Screen Frame illustrates how the screen is mounted into the wall aperture.



Specifications - dnp Frame System

Screen size		67"	72"	84"	100"	120"	130"
Black Frame prod no.		1200	1205	1210	1215	1220	1230
Coloured Frame prod no.		1201	1206	1211	1216	1221	1231
Dimensions							
Aperture width	mm	1429	1531	1774	2100	2506	2711
Aperture height	mm	1090	1166	1349	1594	1898	2052
Screen size		140"	150"	160"			
Black Frame prod no.		1235	1240	1245			
Coloured Frame prod no.		1236	1241	1246			
Dimensions							
Aperture width	mm	2914	3117	3320			
Aperture height	mm	2204	2357	2509			

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

December 2004

www.dnp.dk

dnp denmark as
Skruegangen 2
DK - 2690 Karlslunde
Denmark
Tel: +45 46 16 51 00
Fax: +45 46 16 52 00

Dai Nippon Printing Co. Ltd.
1-5-17 Higashi-sakashita
Itabashi-ku, Tokyo
174 0042 Japan
Tel: +81-3-5970-4661
Fax: +81-3-5970-4663

DNP Electronics America, LLC.
2391 Fenton Street
Chula Vista, CA 91914
USA
Tel: + 1 619 397 6700
Fax: + 1 619 397 6739



dnp denmark is the worldwide large screen centre of Dai Nippon Printing Co. Ltd – one of the world's largest printing and media companies. The DNP Group has a total annual turnover of 13 billion US\$.