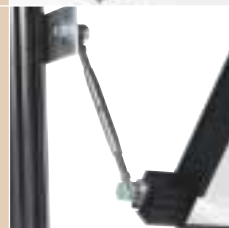


# dnp Image Builder™



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.

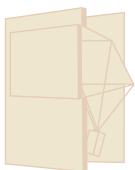
Let us be your “behind the scenes” partner, a secret weapon in your quest to make the ideal installation for your customer!



**01.**  
Rigs are minutely adjustable for precision alignment.

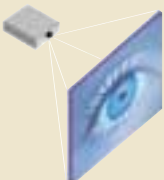
**02.**  
The projector mount is compatible with all standard projectors.

**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.



### 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.



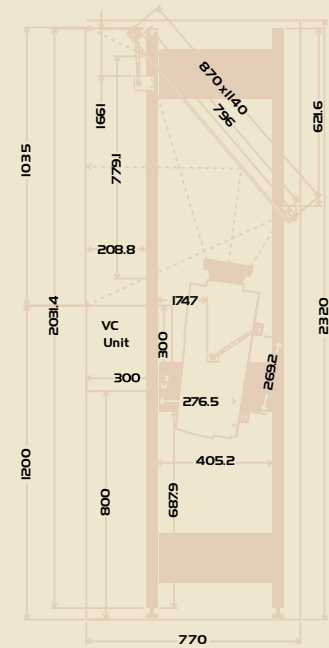
04.

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<br>Product no. |    | 67"<br>6505  | 67"<br>6510  | 72"<br>6515  | 72"<br>6520  | 84"<br>6525  | 84"<br>6530  | 100"<br>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<br>Product no. |    | 100"<br>6540 | 120"<br>6545 | 120"<br>6550 | 140"<br>6555 | 140"<br>6560 | 150"<br>6565 | 150"<br>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<br>Product no. |    | 160"<br>6575 | 160"<br>6580 | 180"<br>6585 | 180"<br>6590 | 200"<br>6595 | 200"<br>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.

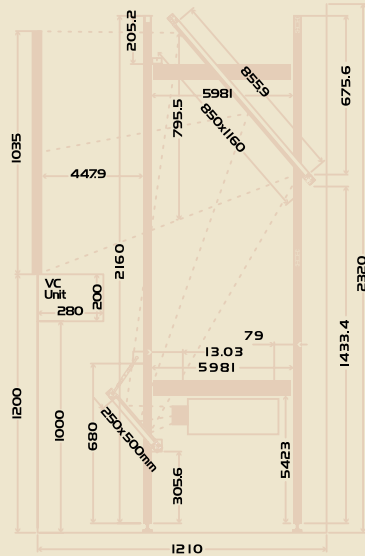
07.



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<br>Product no. |    | 67"<br>6610  | 72"<br>6620  | 84"<br>6625  | 84"<br>6630  | 100"<br>6635 | 100"<br>6640 | 120"<br>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<br>Product no. |    | 120"<br>6650 | 140"<br>6655 | 140"<br>6660 | 150"<br>6665 | 150"<br>6670 | 160"<br>6675 | 160"<br>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<br>Product no. |    | 180"<br>6685 | 180"<br>6690 | 200"<br>6695 | 200"<br>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.

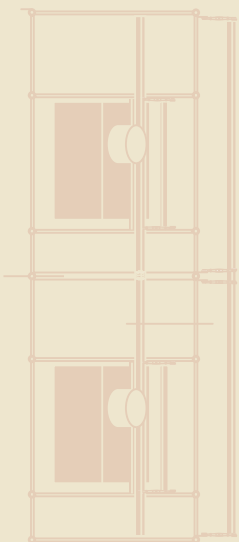
Special options are available for both direct projection and single mirror solutions (i.e. special projector stands for direct projection).



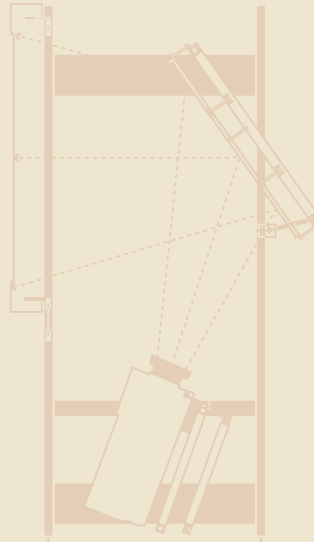
10.

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 mirror system to provide the image accuracy required.

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<br>Product no. |    | 67"<br>6705 | 84"<br>6710 | 100"<br>6715 | 120"<br>6720 | 67"<br>6725 | 84"<br>6730 | 100"<br>6735 | 120"<br>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<br>Product no. |    | 67"<br>6755 | 84"<br>6760 | 100"<br>6765 | 120"<br>6770 | 67"<br>6775 | 84"<br>6780 | 100"<br>6785 | 120"<br>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 frag-

ments 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 2540 x 1830 mm. The weight is 14.4 kg/m<sup>2</sup>. dnp also offers foil mirrors to special order.

13.



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<br>Product no.          |    | Mirror incl frame<br>6000 | Mirror incl frame<br>6010 | Mirror incl frame<br>6020 | Mirror incl frame<br>6030 | Mirror incl frame<br>6070 | Mirror incl frame<br>6080 |
|------------------------------|----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| <b>Dimensions</b>            |    |                           |                           |                           |                           |                           |                           |
| Width                        | mm | 1270                      | 1430                      | 1740                      | 2150                      | 2320                      | 2540                      |
| Height                       | mm | 1067                      | 1054                      | 1244                      | 1470                      | 1740                      | 1830                      |
| Thickness                    | mm | 6                         | 6                         | 6                         | 6                         | 6                         | 6                         |
| <b>Effective Mirror Area</b> |    |                           |                           |                           |                           |                           |                           |
| Width                        | mm | 1260                      | 1420                      | 1730                      | 2140                      | 2310                      | 2530                      |
| Height                       | mm | 1057                      | 1044                      | 1234                      | 1460                      | 1730                      | 1820                      |
| <b>Frame dimensions</b>      |    |                           |                           |                           |                           |                           |                           |
| Width                        | mm | 1286                      | 1446                      | 1756                      | 2166                      | 2336                      | 2556                      |
| Height                       | mm | 1073                      | 1060                      | 1250                      | 1476                      | 1776                      | 1836                      |
| Thickness                    | mm | 42                        | 42                        | 50                        | 50                        | 50                        | 50                        |
| Mirror weight                | kg | 20                        | 23                        | 32                        | 47                        | 61                        | 70                        |
| Frame weight                 | kg | 10                        | 15                        | 20                        | 30                        | 35                        | 40                        |

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

June 2002

# 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](http://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 height and width of the screen:

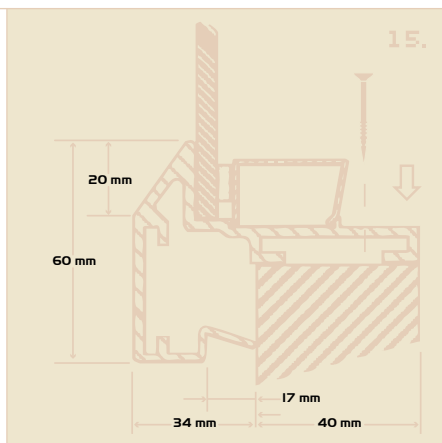
|                        |           |
|------------------------|-----------|
| Screens ≤ 84":         | add 32 mm |
| Screens > 84" ≤ 125":  | add 34 mm |
| Screens > 125" ≤ 160": | add 36 mm |

## 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.    |    | I200 | I205 | I210 | I215  | I220  | I230  |
| Coloured Frame prod no. |    | I201 | I206 | I211 | I216  | I221  | I231  |
| <b>Dimensions</b>       |    |      |      |      |       |       |       |
| Aperture width          | mm | I427 | I521 | I765 | I2117 | I2524 | I2728 |
| Aperture height         | mm | I092 | I155 | I338 | I609  | I1914 | I2068 |
| Screen size             |    | 140" | 150" | 160" |       |       |       |
| Black Frame prod no.    |    | I235 | I240 | I245 |       |       |       |
| Coloured Frame prod no. |    | I236 | I241 | I246 |       |       |       |
| <b>Dimensions</b>       |    |      |      |      |       |       |       |
| Aperture width          | mm | 2941 | 3144 | 3348 |       |       |       |
| Aperture height         | mm | 2230 | 2382 | 2536 |       |       |       |

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

June 2002

[www.dnp.dk](http://www.dnp.dk)

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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\$.