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## Mirror Projection Method

WT Series

WT600

Winner  
THE NIKKAN KOGYO  
SHIMBUN  
2003  
Machine Design Award  
Committee's  
Choice  
Special Award



### NEC's unique mirror projection technology using aspheric mirrors achieves the world's shortest focal distance\*.

Use existing presentation venues more efficiently or even install this projector in a limited space such as a small meeting room. Presentations can be made without concern for shadows on the screen when you stand in front of it. This projector expands the opportunities for use and can be used by anyone, anywhere.

\* As of June 2003. Research by NEC.

### The WT600 projector can easily be used in places where it was difficult for lens-projection type projector to be installed.

#### > Presentation



Even if the presenter stands in front of the screen, there are no shadows. The audience can focus on the presenter.

#### > Meeting room



Install this projector in a very small area enclosed with partitions and free up the space on the desk that used to be occupied with an lens-projection type projector.

#### > Window display



This projector can be used in a broader range of applications as a new kind of communications tool, for instance, as a window display.

#### > Exhibitions



Provide product presentations using a large-sized screen even in a small booth.

[Presentation](#) | [Meeting room](#) | [Window display](#) | [Exhibitions](#)

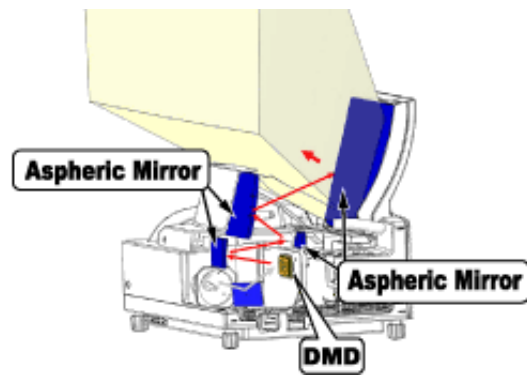
### What is the mirrored reflection projector ?

In an ordinary projector ( lens-projection type projector) images are displayed using a projection lens, which consists of about 10 components. Using this method, shortening the throwing distance is technically limited by the lens diameter, curvature, and weight. The WT600 projector is equipped with NEC's unique optical design using aspheric mirrors. NEC achieved the super short focal distance, impossible in ordinary projectors, by introducing the aspheric mirror, which was developed and produced with super-high accuracy plastic mirror technology. The short throwing distance means the presenter can stand in front of the screen without blocking the light from the projector; so, there are no shadows on the screen. Presentations focus more on the presenter. By introducing a mechanism moving the mirror (electric powered), focus adjustment can be made for a variable screen size, and screen distortion (distortion aberration) is suppressed within

practical levels\*. The "Pin cushion correction" function electrically corrects screen distortion.

\*Less than 2.0% (TV distortion) for 40-100" screens.

## The mirror projection method



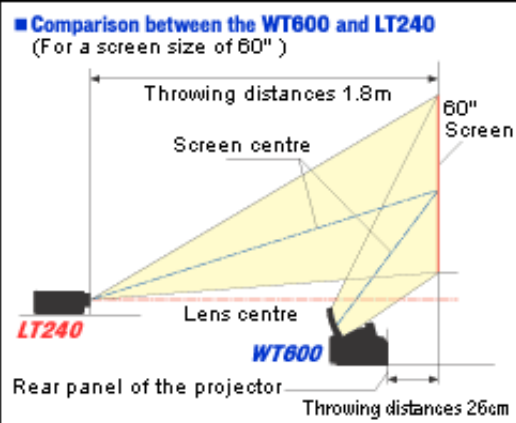
Rays of light are successively reflected with the 4 components of the aspheric mirror functioning as projection lenses to form an image.



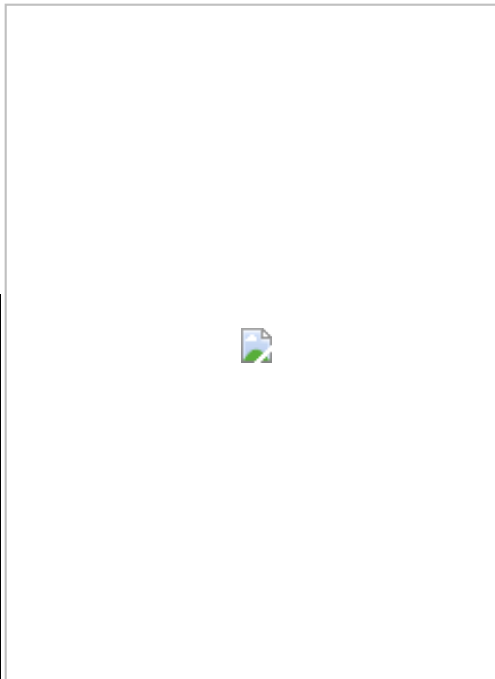
Screen size - Height x Length (m)	Throwing distance*
40" (0.6 x 0.8)	6.4 cm
60" (0.9 x 1.2)	26.3 cm
80" (1.2 x 1.6)	46.1 cm
100" (1.5 x 2.0)	65.9 cm

\* Errors are within +/- 5% of these design values.

\*The throwing distance and height of the bottom edge of the screen are calculated with an aspect ratio of 4:3.



Screen Distance



\* About the screen

- The recommended size of projection is 60".
- The recommended screen gain for a wide-angle type is around 1.0. It is not suitable for a roll screen or an uneven screen.
- [Please Click here for further details](#)

## Terminals



## Other features

- The projector supports wired LAN and wireless LAN\*1. Notification of lamp life and error messages will be reported via e-mail\*2.
- The projector is exceptionally quiet with a noise level of 32 dB. (In the Lamp Eco Mode)
- The projector is equipped with three types of security functions: Protection against improper operation, Protection against changes in settings, and Protection against unauthorized use.
- The maximum lamp lifetime of 3000 hours\*3 is achieved in the Lamp Eco Mode.
- With the PC card viewer function, presentations can be made without using a PC.

\*1 For wireless LAN operation, an optional wireless LAN card (SWL-2100N) is required, while a commercially available LAN card is required for wired LAN operation.

\*2 Not available for the Macintosh®

\*3 The lamp lifetime means the average hours when the lamp brightness deteriorates by half. Under normal use conditions lamp life is 2000 hours.

## Specifications

Model name		WT600		
DMD Panel*1		1chip DMD (0.7")reflection, 1,024 x 768		
Lamp		220W DC (Normal Mode)/176W(Eco Mode)		
Lamp Life*2		2,000H (Normal Mode)/3,000H (Eco Mode)		
Image Size		40inch to 100inch (Projection Distance:0.064m to 0.659m)		
Light Output		2,500 Lumens (Nomal Mode)/2,000 Lumens (Eco Mode)*3		
Maximum Resolution		UXGA (1,600 x 1,200) with Advanced AccuBlend		
Contrast Ratio		3,000:1		
Optical Unit		Aspheric mirror x 4		
Synchronization		15kHz to 100kHz(RGB:24kHz or over)		
Range	Horizontal	50Hz to 120Hz		
Video Bandwidth		RGB:80MHz		
Colour Reproduction		Full Colour, 16.77Million Colour Simultaneously		
Input Terminals	1DVI-I	1DVI-I 29pin	RGBHV (Digital) T.M.D.S Specifications VGA, SVGA, XGA, SXGA	
		1 Stereo Mini Jack	RGBHV (Analogue) VGA, SVGA, XGA, SXGA (with Advanced accuBlend), UXGA (with Advanced accuBlend)	
			Stereo L/R 0.5Vrms/22kΩ or over	
	1RGB Input	1 D-sub Mini 15pin	RGBHV (Analogue) VGA, SVGA, XGA, SXGA (with Advanced AccuBlend), UXGA (with Advanced AccuBlend)	
			RGB 0.7Vp-p/75Ω	
			H/V Sync 4.0Vp-p/TTL Polarity	
		1 stereo Mini Jack	Composite Sync 4.0Vp-p/TTL Level Polarity	
			Sync on G 0.3Vp-p/75Ω Negative Polarity	
			Stereo L/R 0.5Vrms/22kΩ or over	
	Component Input (Sharing with RGB Input)	1 D-sub Mini 15pin (Sharing with RGB Input)	Y 1.0p-p/75Ω (with Sync)	
			Cb-Cr(Pb-Pr) 0.7Vp-p/75Ω	
			1125i(1080i), 750p(720p), 525p(480p), 525i(480i)/60Hz 1080i/50Hz, Progressive PAL-scan/50Hz DVD Component Video Signal (15kHz)	
		1Video Input	1 stereo Mini Jack (Sharing with RGB Input)	Stereo L/R 0.5Vrms/22kΩ or over
			1 RCA pin	Composite Video NTSC/NTSC 4.43/PAL/PAL-N/PAL-M/PAL-60/SECAM 1.0p-p/75Ω
				2 RCA pin
	1S-Video Input		1 Mini DIN-4pin	Y 1.0Vp-p/75Ω
		2 RCA pin (Sharing with RGB Input)	C 0.286Vp-p/75Ω	
Stereo L (MONO)/R 0.5Vrms/22kΩ or over				
Output Terminals		1RGB Output	1 D-Sub Mini 15pin	Output Analogue Signal
	1AUDIO Output	1 stereo Mini Jack		
	2USB Port			
Control Terminals	Remote Control Input	1 stereo Mini Jack	External Control	
	PC Control	1 Mini DIN-8pin	RS-232C	
PC-Card Slots		PCMCIA TypeII		
Built-in Speaker		1W + 1W (Stereo)		
Keystone Correction		H max ± 5 degrees:V max -5 degrees		
Environment	Operational Temperatures	41° to 95°F (5° to 35°C), 20 to 80%Humidity(Non-Condensing)		
	Storage Temperatures	14° to 122°F (-10° to 50°C), 20 to 80%Humidity(Non-Condensing)		
Power Requirement		100 to 120V AC/200 to 240V AC, 50Hz/60Hz		
Power Consumption		290W(Lamp Normal Mode)/230W(Lamp Eco Mode)/0.6W(Standby)/8W(Idle)		
Input Current		3.2A (100 to 120V AC)/1.6A(200 to 240V AC)		
Quietness		37dB (Lamp Nomal Mode), 32dB (Lamp Eco Mode)		
Regulations	UL Approved (UL 1950, CSA-950)			
	Meets DOC Canada Class B requirements			
	Meets FCC Class B requirements			
	Meets AS/NZS3548 Class B			
	Meets EMC Directive (EN55022, EN55024, EN61000-3-2, EN61000-3-3) Meets Low Voltage Directive (EN60950, TUV GS Approved)			

Dimensions(W x H x D)

With the mirror cover open (380mm x 313mm x 313mm (Not Including Protrusions)

With the mirror cover Closed (380mm x 227mm x 296mm (Not Including Protrusions)

Net Weight

5.9kg

\*1 : Effective pixels more than 99.99%.

\*2 : Lamp life is defined as the average time span for the brightness of the lamp to be reduced by half, it does not refer to the warranty period for the lamp.

\*3 : 1,500 ANSI Lumens (Normal Mode)/1,200 ANSI Lumens (Eco Mode)

All specifications are subject to change without notice.

## Options List

### Ceiling Mount kit (WT60CM)



Equipped with the adjuster for minor adjustment of angle

### Lamp (LT60LPK)



Replacement Lamp for WT600



Model codes, specifications and available options may differ by region.  
For detailed information, please contact the NEC sales company or dealer in your area.



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