New Product Highlights

New MultiSync WT610/WT615 Projectors

Designed to be positioned very close to the screen. Perfect for small offices, classrooms and retail and other display environments where space is at a premium.

Just a short throw to the perfect image. The revolutionary WT short-throw projectors use mirror projection technology to create large screen images with an ultra-short focal distance. They can be positioned right up against the wall, making them ideal for presentations where space is limited, or for informal situations where the audience is standing, such as exhibitions or live events. The WT615 comes with the added feature of NEC's innovative Easy Electronic Board, which allows you to 'draw' directly onto the projected image using its movement sensor pen.

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

WT610 / WT615

- 2,000 ANSI Lumens
- XGA Resolution (1024 X 768)
- Contrast ratio of 3500:1
- Easy Electronic Board (WT615 only)

Special features

- Aspheric mirror projector technology
- Rear projection systems
- Project a 60" image from 26cm*
- 3500:1 contrast ratio
- DLP XGA, with 2000 ANSI lumens brightness
- Optional, 40 inch combined stand and screen available
- Computer graphics display up to UXGA
- HD compatible, DVI with HDCP
- Presentation viewer function
- Wireless or wired LAN 802.11b/g
- 3D Reform Keystone Correction
- 3 year pan-European repair and return guarantee
- Low noise 32dB
- Easy Electronic Board (WT615 only)

Empowered by Innovation NEC

NEC Mirror projectors advance to the next stage, showing the way to new presentation possibilities.

Using Aspheric mirrors, NEC's originally developed mirror technology achieves large screen projection with an ultra-short focal distance. Compared with the first generation WT600, both brightness and ease of installation have been improved, making presentations even easier. At the top of the line-up is the WT615 which boasts the new built in Interactive White Board capability. This handy function allows you to "write" comments or "draw" directly on the projected image screen just like a whiteboard, greatly expanding both expression and interactivity of your presentations.

Standard Model

WT610

3500 Output Lumens*
2000 ANSI Lumens

3500:1 contrast

Easy Electronic Board Model

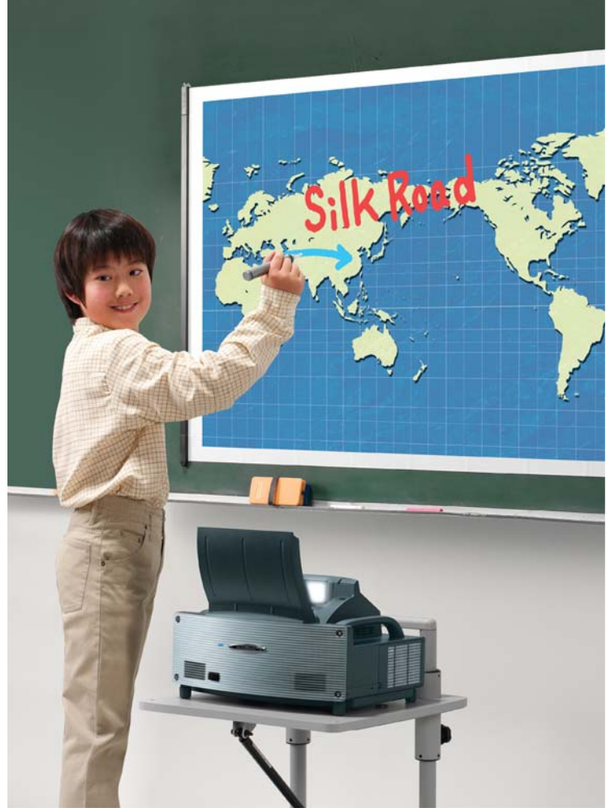
WT615

3500 Output Lumens*
2000 ANSI Lumens

3500:1 contrast

Interactive Whiteboard Board Functionality

Electronic Pen



Ultra-Short Focal Distance & User-friendly Functionality

Large Screen Projection in Limited Space!

- **Project a 60-inch large screen image from only 26cm away!**

  Mirror projection technology with its ultra-short focal distance enables easy set-up in very restricted space. From making pitches in meeting cubicles to projecting onto a partition, our new line-up of projectors represents not only powerful presentation technology, but also new communication tools that open new possibilities such as projection in narrow shop windows.

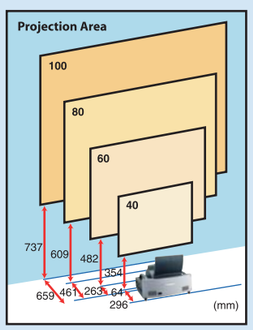
- **32dB operating level and energy-saving, long-life lamp in ECO Mode.**

Increased brightness and improved set-up functionality

- **Bright Vivid Image Projection- High brightness of 3500 output Lumens (2000 ANSI Lumens)**
- **High 3500:1 contrast ratio for real expression of subtle colours and shades**

  World's highest contrast ratio* in the 2000 ANSI Lumens class. *based on NEC research as of January 2005

- **Wall Colour Correction – Accurate colour projection against walls and other surfaces that are not true white**
- **On-Screen display of set-up conditions and inclination**



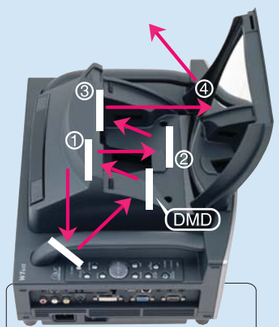
About the Screen

- The recommended projection size is a 60-inch screen. (40-inch to 100-inch projection possible)
- The recommended screen gain for the surface of a wide-aspect type is about 1.0 (white matte type), and the screen should be a flat panel type.
- Roll-type screens and large screens with uneven or dimpled surfaces are not recommended.
- Because of susceptibility to uneven brightness and hot spotting, rear-screen projection is not recommended.
- For more information about optimum screen usage, please visit our web site at www.nec-pj.com

***What are Output Lumens?**

Because of the steep projection angle of the WT610/WT615, when the brightness is measured in accordance with JIS standards* that call for the metering device to placed parallel to the screen, the total light is not collected, resulting in a value significantly lower than the actual brightness. In order to indicate the actual brightness output by this projection method, NEC Viewtechnology shows the values in both ANSI Lumens and in Output Lumens which are measured by placing the metering device perpendicular to the light axis.

*Measurement method and conditions are described in JIS X6911:2003 Appendix 2, Paragraph 2.1.6.



The Mirror Projection Method

This innovative projection method is realized by using only 4 aspheric mirrors (1~4) that function as the lens of a conventional lens-projection-type projector. With each stage of reflection of the light rays off the mirrors, the projected image is enlarged.

High-Speed Wireless LAN (option)

Around three times the speed of the previous generation of Wireless LAN* and ready for a variety of applications, the improved wireless LAN provides an easy and quick link between PCs of the participants and the projection screen.

*comparison with WT600

- **Reception of projected images by audience PCs**

  Participants in a presentation can not only receive and display the projected images on their own laptops but also have the convenience of making notations on the received screen images.

- **One-Touch Source Switch**

  No complex settings just one touch of a button and you can fluidly switch inputs between multiple PCs on the wireless network.

- **Easy "Public" File Downloading for Paperless Convenience**

  The presenter can release reference files by using the "Public File" function, enabling audience members to download them directly to their laptops and refer to them during the presentation. No need to prepare lots of printouts. Just paperless economy and convenience!

- **Training Mode for Projection of Audience Screens**

  Perfect for use in the classroom this function gives teachers the freedom to project the screen of a student.

- **USB mouse remote control of the PC**

  When the screen of a PC linked by wireless LAN is projected, the USB mouse connected to the projector can be used to control the PC, enabling easy switching of screens. (In the case of WT615 operation with the special electronic pen is also possible.)

(NWL-100E)

Optional Wireless LAN Card (IEEE802.11b/g compliant card)

Wireless LAN requires installation of the Wireless LAN card (NWL-100E/NWL-100A) and utility software that both come with projector. In the case of IEEE802.11b/g-compliant Wireless LAN, radio waves are used for the exchange of data between Wireless access points and PCs. Accordingly, LAN connections can be maintained as far as the radio signal can reach. On the other hand, because the range of radio signals is not restricted by obstructions such as walls, it is important to activate the security settings.

In the case of the Apple Macintosh personal computer, only the HTTP server and mail notification functions can be used in a LAN environment.

For more information, please visit our web site at http://www.nec-pj.com.

Interactive Whiteboard Board Functionality (WT615 only)

Whiteboards, walls and other impromptu projection surfaces are instantly transformed into an Interactive Whiteboard. Using the special electronic pen, the presenter can "write" notes, "highlight" points and "draw" right on the projected image.

- **Detection of electronic pen movement by a built-in electronic sensor**

  The sensor built in to the rear panel of the WT 615 detects movement of the electronic pen. Select line thickness and colour, draw squares and even erase. Up to 4 pages of drawn text and picture data can be saved.

- **No installation Special Drivers necessary**

  The easy to use Interactive Whiteboard functions are ready to enhance your presentation right out of the box.

- **Use the electronic pen in place of the mouse**

  You can remotely control PCs linked to the projector via the wireless LAN with not only the projector's USB mouse but also with the electronic pen. With the pen or the mouse, moving the next slide or changing projected images is easy.

- **Save projected images with overlaid " drawn " data**

  Images thrown by the projector and picture data drawn with the special electronic pen can be saved on a flash memory card set in the projector or an attached USB storage device.

- **Use it as an Interactive Whiteboard**

  Without projecting an image just set the projector to throw a blank screen of white or any desired colour, and use it as an electronic whiteboard. The "drawn" data can be saved to a memory card.

* Images in this catalog are composited. * Design of the special electronic pen and menu screens is still under development and may differ in the final release.

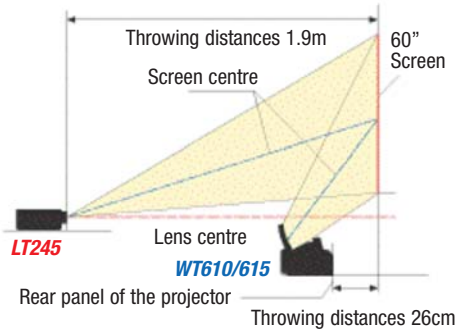
All NEC projectors come with
a Pan-European guarantee

New Product Highlights

WT610/WT615

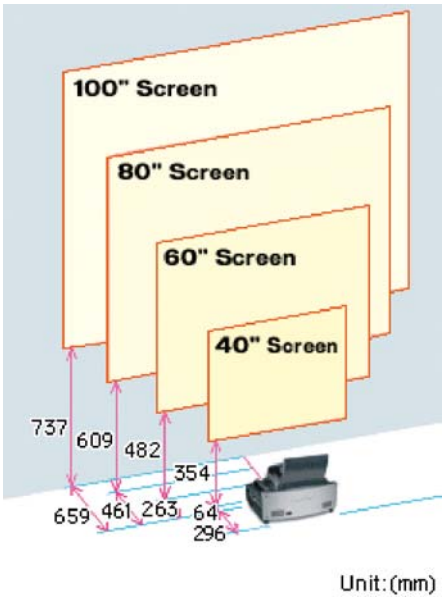
Advantages of the WT610/615 short throw projector

- **Comparison between the WT610/615 and LT245**
  (For a screen size of 60")



Projection throwing distance

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.

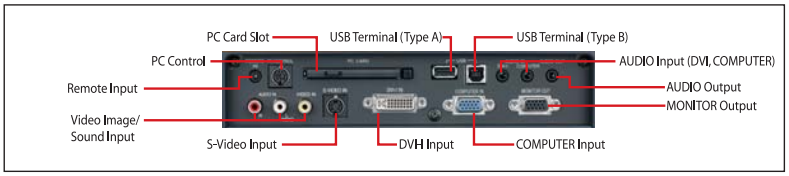
Specifications

Model Name		WT610/WT615		
DMD Panel*1		1chip DMD (0.7") reflection, 1,024x768		
Lamp (Lamp Eco Mode)		275W DC /(210W)		
Lamp Life*2 (Lamp Eco Mode)		2,000H / (4,000H)		
Image Size		40 inch to 100 inch (40- to 80-inch image when used with the Electronic Pen)		
Projection Distance		64mm to 659mm		
Light Output		2,000 ANSI Lumens (Normal Mode) / 1,500 ANSI Lumens (Eco Mode) 3,500 Output Lumens (Normal Mode) / 2,500 Output Lumens (Eco Mode)		
Contrast Ratio		3,500 : 1		
Optical Unit		Aspherical mirror x 4, Time multiplex colour wheel method		
Colour Reproduction		Full colour, 16,7 million colours simultaneously		
Maximum Resolution		UXGA (1,600 x 1,200) with Advanced AccuBlend		
Synchronization Range	Horizontal	15kHz to 100kHz (RGB : 24kHz or over)		
	Vertical	48Hz to 120Hz		
Input Terminals	1 DVI-I	DVI-I 29pin	RGBHV (Digital)	T.M.D.S Specifications
				VGA, SVGA, XGA, SXGA
				HDCP Specification*3
			RGBHV (Analogue)	VGA, SVGA, XGA, SXGA, UXGA
			H/V Sync	4.0Vp-p/TTL Polarity
			Composite Sync	4.0Vp-p/TTL Level
			Sync on G	0.3Vp-p/75Ω Negative Polarity
		Stereo Mini Jack	Stereo L/R	0.5Vrms/22kΩ or over
	1 Computer Input	D-Sub Mini 15pin	RGBHV(Analogue)	VGA, SVGA, XGA, SXGA, UXGA
			RGB	0.7Vp-p/75Ω
			H/V Sync	4.0Vp-p/TTL Polarity
			Composite Sync	4.0Vp-p/TTL Level
			Sync on G	0.3Vp-p/75Ω Negative Polarity
		Stereo Mini Jack	Stereo L/R	0.5Vrms/22kΩ or over
	2 Component Input (Sharing with DVI-I analogue & computer input)	DVI-I 29pin D-Sub Mini 15pin	Y	1.0Vp-p/75Ω (with Sync)
			Cb•Cr (Pb•Pr)	0.7Vp-p/75Ω
				1125i (1080i), 750p (720p), 525p (480p), 525i (480i) /60Hz
				1080i, 576i/50Hz, Progressive PAL-scan/50Hz
				DVD Component Video Signal
		Audio input terminal is sharing with computer & DVI-I analogue input. Specifications same as Computer & DVI-I analogue.		
	1 Video Input	RCA pin	Composite Video	NTSC/NTSC 4.43/PAL/PAL-N/PAL-M/PAL-60/SECAM
				1.0Vp-p/75Ω
		2 RCA pin	Stereo L (Mono)/R	0.5Vrms/22kΩ or over
	1 S-Video Input	Mini DIN-4pin	Y	1.0Vp-p/75Ω
			C	0.286Vp-p/75Ω
		Audio input terminal is sharing with video input. Same as Video Specifications		
Output Terminals	1 MONITOR Output	D-Sub Mini 15pin	Selected Computer Signal or Component Signal Output	
	1 AUDIO Output	Stereo Mini Jack	Stereo L/R Variable: Selected Audio Signal Output	
Control Terminals	2 USB Port	A Type : USB mouse and USB Memory Device B Type : Remote mouse output for PC		
	Remote Control Input	Stereo Mini Jack	External Control	
	PC Control	Mini DIN-8pin	RS-232C	
PC-Card Slots	PCMCIA Type II, CardBus Specifications	for Wireless LAN	By optional wireless LAN card "NWL-100E/A(IEEE802.11b/g standard)"	
		for Wired LAN	100BASE-TX/10BASE-T standard card	
		for Viewer	PC Memory	
Built-In Speaker		1 W + 1 W (Stereo)		
Keystone Correction		H max ±5 degrees : V max 0 ~ -5 degrees		
Environment	Operational Temperatures	5° to 35°C (When using the Electronic Pen: 15° to 35°), 20 to 80% Humidity (Non-Condensing)		
	Storage Temperatures	-10° to 50°C, 20 to 80% Humidity (Non-Condensing)		
Power Requirement		100 to 240V AC, 50Hz / 60Hz		
Power Consumption (Lamp Eco Mode)		370W / (300W) 12W Normal Standby / 0.6W Power-saving Standby		
Input Current		3.9A 100V AC/1.7A 240V AC		
Operating Level in Lamp Eco Mode		32dB		
Regulations		UL/C_UL Approved (UL60950, CSA60950)		
		Meets DOC Canada Class B requirements		
		Meets FCC Class B requirements		
		Meets AS/NZS CISPR.22 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 318mm x 313mm (not including protrusions) With the mirror cover closed: 380mm x 227mm x 296mm (not including protrusions)		
Net Weight		6.4kg		

*1: Effective pixels are 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: There may be cases in which content protected with HDCP will not be displayed due to decisions or the intention of the HDCP community.
(Digital Content Protection, LLC).

All specifications are subject to change without notice.

Side Terminal Board



Specifications units: mm