Specifications

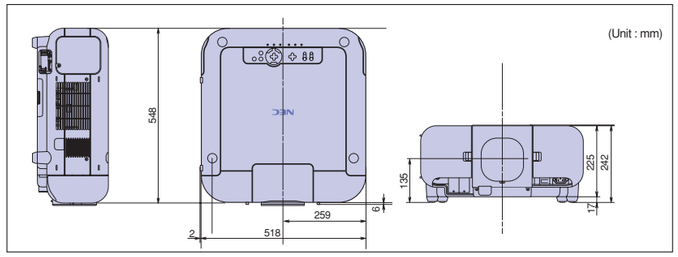
		GT6000	GT5000
LCD Panel *1		1.4" (1,400x1,050) p-Si TFT LCD x 3 With Micro Lens Array	1.4" (1,024x768) p-Si TFT LCD x 3 With Micro Lens Array
Lens		Motorized Zoom / Focus / Shift ±0.32 H / ±0.5 V (GT20ZL)	
Lamp		275 W DC x 2 (Normal Mode)	
Lamp Life *2		2,000 H (Normal Mode) / 3,000 H (Eco Mode)	
Image Size		40 - 300" (with GT20ZL)	
Light Output	Normal Mode	5,300 ANSI lumens (with GT20ZL)	6,000 ANSI lumens (with GT20ZL)
	Eco Mode	4,100 ANSI lumens (with GT20ZL)	4,700 ANSI lumens (with GT20ZL)
Resolution	Native Resolution	SXGA+ (1,400X1,050)	XGA (1024X768)
	Maximum Resolution	UXGA (1,600X1,200) With Advanced AccuBlend	

		GT6000 & GT5000		
Contrast Ratio		700 : 1		
Optical Unit		Light Gage, Integrator, XDP		
Synchronization Range	Horizontal	15 - 100 kHz (RGB : 24 kHz or over)		
	Vertical	48 - 120 Hz		
Video Bandwidth		RGB : 100 MHz		
Horizontal Resolution		550TV Lines : NTSC / NTSC4.43 / PAL / Y · Cb · Cr		
		350TV Lines : SECAM		
Colour Reproduction		Full Colour, 16.7Million Colours Simultaneously		
Input Terminals	1 DVI Digital Input	1 DVI-D	RGB (Digital)	T.M.D.S Specification
				Max Resolution : XGA@60Hz
		1 Stereo Mini Jack	Stereo L / R	0.5Vrms / 22k Ω or over
	RGB1 Input	5 BNC	RGBHV (Analogues)	VGA, SVGA, XGA, SXGA, UXGA (With Advanced AccuBlend)
			RGB	0.7 Vp-p / 75 Ω Positive Polarity
			H/V Sync	4.0 Vp-p / TTL Polarity
			Composite Sync	4.0 Vp-p / TTL Level
			Sync on G	0.3 Vp-p / 75 Ω Negative Polarity
		2 RCA pin	Stereo L (Mono) / R	0.5Vrms / 22k Ω or over
	RGB2 Input	1 D-Sub Mini 15pin	RGBHV (Analogues)	VGA, SVGA, XGA, SXGA, UXGA (With Advanced AccuBlend)
			RGB	0.7 Vp-p / 75 Ω Positive Polarity
			H/V Sync	4.0 Vp-p / TTL Polarity
			Composite Sync	4.0 Vp-p / TTL Level
			Sync on G	0.3 Vp-p / 75 Ω Negative Polarity
		1 Stereo Mini Jack	Stereo L / R	0.5Vrms / 22k Ω or over
	2 Component Input (Sharing With RGB1 & RGB2)	3 BNC (Sharing With RGB1) 1 D-Sub Mini 15pin (Sharing With RGB2)	Y	1.0 Vp-p / 75 Ω Positive Polarity
			Cb · Cr (Pb · Pr)	0.7 Vp-p / 75 Ω Positive Polarity
			1125p (1080p), 1125i (1080i), 750p (720p), 625p (576p), 525p (480p), 525i (480i), / 60Hz	
			1080i / 50Hz, Progressive PAL-scan / 50Hz	
			DVD Component Video Signal (15kHz)	
		2 RCA pin (Sharing With RGB1)	Stereo L (Mono) / R	0.5Vrms / 22k Ω or over
		1 Stereo Mini Jack (Sharing With RGB2)	Stereo L / R	
	1 Video Input	1 BNC	Composite Video	NTSC / NTSC4.43 / PAL / PAL-60 / SECAM
				1.0 Vp-p / 75 Ω
		2 RCA pin	Stereo L (Mono) / R	0.5Vrms / 22k Ω or over
	1 S-Video Input	1 Mini DIN-4pin	Y	1.0 Vp-p / 75 Ω
			C	0.286 Vp-p / 75 Ω
		2 RCA pin	Stereo L (Mono) / R	0.5Vrms / 22k Ω or over
	2 Option Slots	2 Option board	RGB (BNC x 5)	
			SDI (HD & SD)	
	2 PC-Card Slots	PC-Card	PCMCIA type	
	LAN Port	1 RJ-45		
Output Terminals	RGB Output	1 D-Sub Mini 15pin		
	AUDIO Output	2 RCA pin	Stereo (L / R) Variable Audio	
Built-In Speaker		5W + 5W		
Control Terminals	USB Port	1 A Type		
	USB Port	1 B Type	Remote Mouse	
	Ex.Control	1 D-Sub Mini 15pin	External Control	
	Remote Control Input	1 Stereo Mini Jack	External Control	
	Remote Control Output	1 Stereo Mini Jack	External Control	
	PC Control Input	1 D-Sub Mini 9pin	RS-232C	
	PC Control Output	1 D-Sub Mini 9pin	RS-232C	
	SC.Trigger	1 Stereo Mini Jack	12V 100mA	
Keystone Correction		H max ±30 degrees : V max ±40 degrees		
Environment	Operational Temperatures	32°- 95°F (0° To 35°C), 20 - 80% Humidity (Non-Condensing)		
	Storage Temperatures	14°- 122°F (-10° To 50°C), 20 - 80% Humidity (Non-Condensing)		
Power Requirement		100 - 120 V AC / 200 - 240 V AC, 50 Hz / 60 Hz		
Power Consumption		800 W (Lamp Normal Mode) 660 W (Lamp Eco Mode) 1 W (Standby)		
Input Current		8.0 A (100 - 120 V AC) / 4.0 A (200 - 240 V AC)		
Regulations		UL Approved (UL 1950, CSA 950)		
		Meets DOC Canada Class B requirements		
		Meets FCC Class B requirements		
		Meets AS / NZS 3548 Class B		
		Meets EMC Directive (EN 55022 : 1998, EN 55024-1998, EN 61000-3-2, EN 61000-3-3)		
		Meets Low Voltage Directive (EN 60950, TUV GS Approved)		
Dimensions (WxHxD)		518 mm x 242 mm x 548 mm (Not Including Protrusions)		
Net Weight		18.4 Kg (Not Including Lens)		

*1 : LCD panel technology consists of fine picture cells with more than 99.99% of the cells being active.
*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.
All specifications are subject to change without notice.

Dimensions

(Unit : mm)



Compatible Input Signals

Signal		Resolution (Dot)	Frequency Horizontal (kHz)	Frequency Vertical (Hz)	GT6000	GT5000
VIDEO	NTSC	—	15.7	60.0	◎	◎
	PAL/SECAM	—	15.6	50.0	◎	◎
	PAL60	—	15.7	60.0	◎	◎
HDTV	1125p(1080p)	1920 × 1080	67.5	60.0	○	○
	1125i (1080i)	1920 × 1080	33.8	60.0	○	○
	750p (720p)	1280 × 720	45.0	60.0	◎	○
SDTV	625p (576p)	—	31.3	50.0	◎	◎
	525p (480p)	720 × 483	31.5	59.9	◎	◎
DVD YCbCr		—	15.7	59.9	◎	◎
		—	15.6	50.0	◎	◎
IBM PC		640 × 350	37.9	85.1	◎	◎
		640 × 400	31.5	70.0	◎	◎
		640 × 400	37.9	85.1	◎	◎
		640 × 480	31.5	60.0	◎	◎
		640 × 480	37.9	72.8	◎	◎
		640 × 480	37.5	75.0	◎	◎
		640 × 480	43.3	85.0	◎	◎
		720 × 350	31.5	70.1	◎	◎
		720 × 350	39.4	87.9	◎	◎
		720 × 400	37.9	85.0	◎	◎
		720 × 400	39.4	87.9	◎	◎
		800 × 600	35.2	56.3	◎	◎
		800 × 600	37.9	60.3	◎	◎
		800 × 600	48.1	72.2	◎	◎
		800 × 600	46.9	75.0	◎	◎
		800 × 600	53.7	85.1	◎	◎
		1024 × 768	35.5	43.0	◎	◎
		1024 × 768	48.4	60.0	◎	◎
		1024 × 768	56.5	70.1	◎	◎
		1024 × 768	60.0	75.0	◎	◎
		1024 × 768	68.7	85.0	◎	◎
		1152 × 864	67.5	75.0	◎	○
		1280 × 960	60.0	60.0	◎	○
		1280 × 960	85.9	85.0	◎	○
		1280 × 1024	64.0	60.0	◎	○
		1280 × 1024	80.0	75.0	◎	○
		1280 × 1024	91.1	85.0	◎	○
		1400 × 1050	65.3	60.0	◎	○
		1400 × 1050	82.3	74.9	◎	○
		1400 × 1050	93.9	85.0	◎	○
		1600 × 1200*1	75.0	60.0	○	○
		1600 × 1200*1	81.3	65.0	○	○
		1600 × 1200*1	87.5	70.0	○	○
		1600 × 1200*1	93.8	75.0	○	○
		1600 × 1200*1	106.3	85.0	○	○
Apple Macintosh®		640 × 480	35.0	66.7	◎	◎
		832 × 624	49.7	74.6	◎	◎
		1024 × 768	60.2	74.9	◎	◎
		1152 × 870	68.7	75.1	◎	○
		1280 × 1024	69.9	65.2	◎	○
HP		1280 × 1024	78.1	72.0	◎	○
SUN		1152 × 900	61.8	66.0	◎	○
		1152 × 900	71.7	76.1	◎	○
		1024 × 1024	65.3	61.4	◎	○
		1024 × 1024	81.1	76.1	◎	○
SGI		1152 × 900	71.7	76.1	◎	○

*The display resolution and frequency at the time of shipment are adjusted for a standard signal. They may need to be readjusted depending on the PC model.
*Some composite sync signals may not be displayed correctly.
*For the Advanced AccuBlend display, the thickness of letters or lines may be uneven.

*1 UXGA (1600 x 1200) supports separate signals only.
◎:Displayed on a real image basis. ○:Displayed with Advanced AccuBlend.

Throwing Distance and Screen Size

(Unit : m)

Screen Size	Lens GT06RLB	GT10RLB	GT12ZLB	GT13ZLB	GT19ZLB	GT20ZL	GT24ZLB	GT34ZLB	GT48ZLB
80"	1.0	1.6	1.9-2.7	1.9-2.3	2.7-3.5	3.2-4.1	3.5-5.1	5.1-7.8	7.7-11.5
100"	1.2	2.0	2.4-3.4	2.4-2.9	3.4-4.4	4.0-5.2	4.4-6.5	6.5-9.8	9.7-14.4
150"	—	3.0	3.6-5.1	3.7-4.4	5.1-6.7	6.1-7.8	6.7-9.8	9.8-14.8	14.7-21.8
200"	—	4.0	4.9-6.9	4.9-5.9	6.9-9.0	8.1-10.5	8.9-13.1	13.1-19.7	19.8-29.2
250"	—	5.0	6.1-8.6	6.1-7.5	8.6-11.2	10.1-13.2	11.2-16.4	16.4-24.7	24.8-36.6
300"	—	—	7.3-10.4	7.3-9.0	10.3-13.5	12.2-15.8	13.4-19.7	19.7-29.7	29.8-44.0
400"	—	—	—	—	—	—	18.0-26.4	26.2-39.7	39.8-58.9
500"	—	—	—	—	—	—	—	32.8-49.7	49.9-73.7

*Stated projection distances are standard values. For a stack installation, the recommended projection distances will be different.
*The respective values are design values and may contain errors within +/– 5%.

Optional Accessories

- Replacement Lamp (GT60LP) [Standard]
- Replacement Lamp (GT60LPS) [Long Life]
- Ceiling Mounting Kit (GT60CM)
- SDI Interface Board (MM-SDI)*1
- RGB Interface Board (MM-RGB)*2

*1 :The MM-SDI is an SDI board with 3 x BNC connectors for an expansion slot on the projector. The MM-SDI board allows for connecting the projector with a commercial type digital VTR (D5-VTR) compatible with digital serial component signals.
*2 :The MM-RGB is an RGB board with 5 x BNC connectors for an expansion slot on the projector.

DCDi™ by FAROUDJA

for more information
www.nec-pj.com

KEKI-0303-094RR

Empowered by Innovation NEC

Installation Projector

MultiSync GT6000/GT5000

Empowered by Innovation NEC

High Definition LCD Projector with Superior Brightness

High definition images with superior brightness in a new series of high-performance projectors

Easy to Use

Dual lamp modes with a full range of optional lenses meet the requirement for high definition images with outstanding brightness and many hours of continuous operation increased lamp life

From Digital Cinema to Mobile Convenience - **NEC Projector is the Best Solution**

MultiSync GT6000/GT5000

LCD Projector with Superior Brightness and the Ultimate in Customization

The GT6000 and GT5000 are products developed for use in systems. The first model from NEC to apply a dual lamp configuration, the GT Series produce large-sized screen projection with superior brightness and many hours of continuous operation. The lamp switching function permits uninterrupted operation if one lamp fails by automatically switching to the second lamp.
With the powered Lens Shift function to control the lens in both the vertical and horizontal directions, a standard LAN port for integrated networking, an image transmission function supporting wireless LAN, the stack projection function, a full line of interfaces, such as DVI and BNC, and the new Geometric Correction Tool, the new projectors offer versatile functions for a variety of different systems. Further the projector can be customized with five types of optional lenses ranging from short focus to long focus for the optimum solution to any installation location,such as conference rooms, lecture halls, event venues, and graphic design studios.

Outstanding brightness of 6,000 ANSI lumens (GT5000/GT20ZL)

The newly developed 1.4-inch LCD panel and high power optical engine with two lamps achieve exceptional brightness. Vivid, clear images are reproduced even under bright lighting conditions. Additional brightness levels can be obtained with a stack configuration* (up to 2 units). The GT6000 supports SXGA+ (1400 x 1050) real, and the GT5000 supports XGA real.
* For more details, please contact your distributor or dealer.

New LSIs for sharper, more vivid image quality

GT6000 and GT5000 use two new NEC LSIs. The first is a 10-bit video decoder LSI that significantly lowers cross colour and cross luminance caused by three dimensional Y/C separation (with NTSC signals) and the second provides a SweetVision function that uses the characteristics of the human eye to achieve picture quality with a greater feeling of contrast. For optimum quality with movies and video, the projector also incorporates a high performance LSI for de-interlacing using Faroudja® DCDi™ technology. The result is reproduction of all images with extremely high contrast and overall quality.

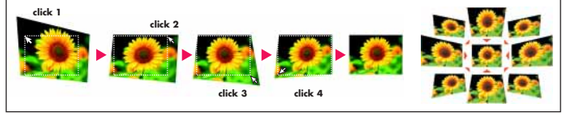
The long extended-life lamp (GT60LPS) provides many hours of continuous operation

With the extended-life lamp, the projector affords many hours of continuous operation and substantially reduces the cost and labour of replacing lamps.
This series is the best choice for the diverse needs of graphic artists or for controlling and monitoring where the projector will be in use for many hours - mini theatres, halls, art galleries, museums, libraries and video libraries - anywhere high definition images and outstanding brightness are required.

Flexible, customizable installation

The projector is equipped with 3D Reform function to correct 3D distortions, and the Lens Shift function adjusts the projected image in both the vertical and horizontal directions. Even in restricted spaces and off-centre installations, the projector displays distortion-free, high quality images.
*The Lens Shift function is not available for the GT10RLB.

3D Reform



Versatile system integration

With a comprehensive array of control systems for USB, RS-232C and multiple input/output ports, the projector is easily integrated with a variety of systems for versatile operation. Two optional slots provide superior expandability, and with two types of optional boards, RGB and SDI, the projector offers diverse input flexibility. Lens replacement is a simple operation. Select any one of five types of optional lenses for the optimum choice for the installation location and the projection method. Furthermore, wired LAN is standard (RJ-45), and for connection to multiple devices, the projector supports wireless LAN* via a PCMCIA card.
(Note: The LAN environment is not available for Macintosh computers.)
*The optional wireless LAN card is required.

LAN

●Wireless LAN requires a commercially available wireless LAN card ; Please refer to our Internet web site for details.
●Operating system: Windows® 98, Me, 2000, XP ●Reloading of computer screen images projected through LAN connections may range from several times per second to once in several seconds. Reloading must be done manually when projecting from multiple computers. ●Images from some software products, such as those using DirectX, cannot be transferred or projected.

Powered Lens Shift and Memory function

In addition to the Electric Zoom Focus function, the Powered Lens Shift function adjusts the position of the projected image without changing the position of the projector. Since the lens can be shifted in both the vertical / horizontal directions, the projectors maintain image quality depending on the input signal and the lens attributes stored in memory for even greater flexibility.
The lens memory function controls lens position automatically and individually, according to the input resolution and input selected.

Maximum Possible Range

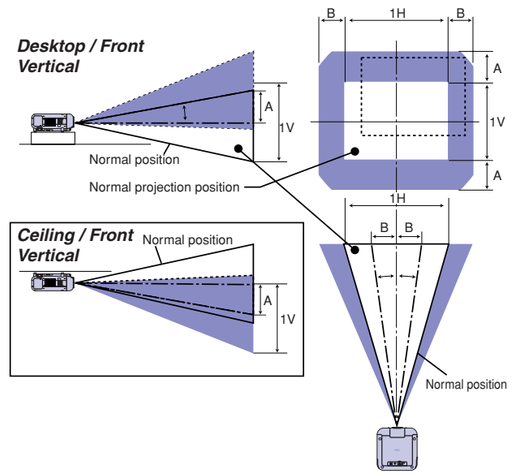
Model		GT12ZLB	GT13ZLB	GT19ZLB	GT20ZL	GT24ZLB	GT34ZLB	GT48ZLB
Lens	A	±0.5V	±0.32V	±0.39V	±0.5V	±0.39V	±0.39V	±0.5V
Shift	B	±0.32H	±0.19H	±0.24H	±0.32H	±0.24H	±0.24H	±0.32H

H : width of projected image, V : height of projected image

Range of Lens Shift

Model	GT12ZLB	GT13ZLB	GT19ZLB	GT20ZL	GT24ZLB	GT34ZLB	GT48ZLB
Vertical	18.59° to 12.36°	12.05° to 9.22°	10.39° to 7.49°	11.30° to 8.18°	8.06° to 5.14°	5.33° to 3.42°	4.54° to 2.96°
Horizontal	16.02° to 10.60°	9.59° to 7.32°	8.56° to 6.15°	9.67° to 7.00°	6.63° to 4.22°	3.29° to 2.81°	3.88° to 2.53°

If the lens shifts in both a vertical and horizontal direction, there are some directions (the four corners) where the lens shifting angle will be smaller than this. The respective values are design values and may contain errors within +/- 5%.



Geometric Correction Tool

With this function, the projector can display square images on cylindrical or spherical screens with no distortion, which is not possible with ordinary projectors.

For more information, please visit http://support.nevt.co.jp/dl_service.

Geometric Correction Projection Screen Type

Option Lens

Model			GT06RLB (New)	GT10RLB	GT12ZLB*1 (New)	GT13ZLB*1	GT19ZLB*2 (New)	GT20ZL*2	GT24ZLB*2	GT34ZLB*2	GT48ZLB*2 (New)
Lens type			Wide short focus fixed lens	Short focus fixed lens	Short focus zoom lens	Short focus zoom lens	Medium range zoom lens	Medium range zoom lens	Medium range zoom lens	Long focus zoom lens	Long focus zoom lens
Zoom/Focus			manual (Focus Only)	Power (Focus Only)	Power	Power	Power	Power	Power	Power	Power
Zoom Ratio			0.6:1	1:1	1.2-1.7:1	1.2-1.5:1	1.7-2.2:1	2.0-2.6:1	2.2-3.2:1	3.2-4.8:1	4.8-7.1:1
Lens Shift*3	Vertical		—	—	±0.5V*4	±0.32V*4	±0.39V*4	±0.5V*4	±0.39V*4	±0.39V*4	±0.5V*4
	Horizontal		—	—	±0.32H*4	±0.19H*4	±0.24H*4	±0.32H*4	±0.24H*4	±0.24H*4	±0.32H*4
Weight			4.0kg	1.7kg	3.3kg	2.0kg	1.7kg	2.0kg	1.8kg	1.7kg	2.6kg
Screen Size			40-120"	40-250"	40-300"	40-300"	40-300"	40-300"	40-300"	60-400"	80-500"	80-500"
Brightness	GT5000	2-Lamp Mode	Normal Mode	4800 ANSI	4800 ANSI	5000 ANSI	5000 ANSI	5500 ANSI	6000 ANSI	4800 ANSI	4500 ANSI	5300 ANSI
			Eco Mode	3700	3700	3900	3900	4300	4700	3700	3500	4200
			Long Life Lamp (GT60LPS)	2400	2400	2500	2500	2700	3000	2400	2300	2600
		1-Lamp Mode	Normal Mode	2400	2400	—	—	2800	3000	2400	2300	2600
			Eco Mode	1900	1900	—	—	2200	2300	1900	1800	2100
			Long Life Lamp (GT60LPS)	1200	1200	—	—	1300	1500	1200	1100	1300
	GT6000	2-Lamp Mode	Normal Mode	4200 ANSI	4200 ANSI	4400 ANSI	4400 ANSI	4800 ANSI	5300 ANSI	4200 ANSI	4000 ANSI	4600 ANSI
			Eco Mode	3300	3300	3400	3400	3700	4100	3300	3100	3600
			Long Life Lamp (GT60LPS)	2100	2100	2200	2200	2400	2600	2100	2000	2300
		1-Lamp Mode	Normal Mode	2100	2100	—	—	2400	2600	2100	2000	2300
			Eco Mode	1600	1600	—	—	1800	2100	1600	1500	1800
			Long Life Lamp (GT60LPS)	1100	1100	—	—	1200	1300	1100	1000	1200

*1: GT12ZLB / GT13ZLB cannot be used in the 1-lamp mode.
*2: When using the projector with the lens, it is recommended to select "Dual" in the Lamp Settings menu. This will provide the best performance when operating the projector.
*3: If the lens shifts in both a vertical and horizontal direction, there are some directions (the four corners) where the lens shifting angle will be smaller than this. The respective values are design values and may contain errors within +/– 5%.
*4: H : width of projected image, V : height of projected image
● GT48ZLB will be available in April 2004. GT06RLB will be available in June 2004. GT12RLB will be available in August 2004.

Seamless Switch (GT6000 only)

Seamless Switch provides image transitions when switching the signal source.Select from three options: Wipe overlays the image in any direction from side to side or top to bottom; Box in contracts the image from the edge to the center; and Box out expands the image from the center to the edge.Select the transition speed from the three options of High, Standard, and Low.

*The drawing show an example of how "Effect-Wipe Right" works.

Terminals

Other functions

- UXGA is also supported with the Advanced AccuBlend function.
- Security enhancement and password protection to prevent use by unauthorized persons.
- Automatic adjustment of PC input signals.
- The colour correction feature adjusts and stores specific colours.
- Two 5 W stereo speakers are included.
- Terminal Cover (Left and Right).
- Backlit Control Panel.
- ON/OFF Timer, Enabling Sleep Timer.
- Screen Trigger.