3D Reform function has achieved an angled projection with high picture quality.

HT1100 can project an image from an angle of about 25 degrees right and left, and about 40 degrees up and down of the throwing angle.
The 3D Reform function, achieved with NEC's developed LSI, corrects 3D distortions not obtainable with ordinary trapezoid correction and projects beautiful pictures.
Simply set the four corners of the distorted image and square the picture.
The flexibility of installation is enhanced drastically.

*The 3D Reform correction is an electrical correction and therefore may cause deteriorations of luminance and/or picture quality.

Other functions

- Newly deinterlace circuit for 525i (480p), 625i (576p), 1125i (1080i).
- Colour Management System adjusts and stores specific colours.
- The projector has a short focus lens allowing installation in a very small space. (The 60 inches screen can be projected at a distance of 1.8m.)
- Test pattern display enables an easy frame adjustment.
- 2W stereo speakers are equipped.
- The projector supports wired LAN with use of LAN card.
- New remote controller features Direct Source Select Button and Backlight function.

Light off　　Light on

*Wired LAN requires a commercially available LAN card. For details, please visit our internet website. ●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 Direct X, cannot be transferred or projected.

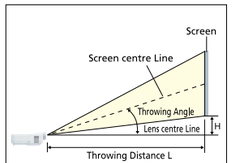
Screen Size and Throwing Distance

●16:9

Screen Size (inches)	Throwing Distance L (m)		Size H (cm)	Movable size at screen position (cm)
	Wide	Tele		
30	0.99	1.21	15.5	± 6.2
40	1.34	1.62	20.9	± 8.3
60	2.03	2.45	31.8	± 12.5
80	2.72	3.29	42.6	± 16.6
100	3.41	4.12	53.5	± 20.8
120	4.10	4.95	64.4	± 24.9
150	5.13	6.20	80.7	± 31.1
180	6.17	7.45	97.0	± 37.4
200	6.86	8.28	107.9	± 41.5
Throwing Angle	18.8°	15.9°		

●4:3

Screen Size (inches)	Throwing Distance L (m)		Size H (cm)
	Wide	Tele	
30	0.91	1.10	9.1
40	1.22	1.48	12.2
60	1.86	2.25	18.3
80	2.49	3.01	24.4
100	3.13	3.78	30.5
120	3.76	4.54	36.6
150	4.71	5.68	45.8
180	5.66	6.83	54.9
200	6.30	7.59	61.0
Throwing Angle	18.8°	15.8°	



•The values for the throwing distance are design values and may contain errors within +/– 5%.

Option List

Model Name	Products Name	Outline
LT60LPK	Replacement Lamp	NSH lamp for replacement
LT60CM	Ceiling Mount Kit	Metal parts for mounting the projector on a ceiling

for more information
www.nec-pj.com

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• The specifications and appearances are subject to change as the improvements of the product are made successively.
• The colours appearing on the brochure may differ from the actual colours of the product because of the printing.

Specifications

HT1100				
DMD Panel※1		1chip DMD 0.7inch reflection Type, 1,024x768 pixels		
Lamp		220W DC (Lamp Normal Mode)		
Lamp Life※2		2,000hrs. (Lamp Normal Mode) / 3,000hrs. (Lamp Eco Mode)		
Lens	Manual Zoom / Focus	(Range 1 to 1.2) (F2.5 to 2.7) (f=22.2mm to 26.7mm)		
	Iris	Variable : F2.5 to 4.0(Wide), F2.7 to 4.5(Tele)		
Throwing angle		18.6 to 19.4(Wide) / 15.7 to 16.2(Tele) degrees@60"		
Throwing Distance		0.9m to 7.6m		
Image Size	30 to 200 inches	Throwing Distance Case of 30inches	Throwing Distance Case of 200 inches	
	Aspect Ratio 4 : 3 (Tele)	1102mm	7593mm	
	Aspect Ratio 4 : 3 (Wide)	907mm	6298mm	
	Aspect Ratio 16 : 9 (Tele)	1206mm	8280mm	
	Aspect Ratio 16 : 9 (Wide)	993mm	6859mm	
Light Output		1,100ANSI lumens (Lamp Normal Mode) / Approximately.880ANSI lumens (Lamp Eco Mode)		
Relative illumination		80% or over		
Maximum Resolution		1080p(1,920 x 1,080) with Advanced AccuBlend		
Contrast Ratio		3,500 : 1 (White : Black) (Iris open 2,000 : 1 (White : Black))		
Optical Unit		Time multiplex colour wheel method with white 6-segment		
Synchronization Range	Horizontal	15kHz to 100kHz (RGB : 24kHz or over)		
	Vertical	48Hz to 100Hz		
Video Bandwidth		RGB : 100MHz (-3dB)		
Horizontal Resolution		540TV Lines : NTSC / NTSC 4.43 / PAL / Y・Cb・Cr		
		300TV Lines : SECAM		
Colour Reproduction		Full Colour, 16.7Million Colours Simultaneously		
Input Terminals	1 DVI Digital Input	DVI-D	RGB (Digital)	T.M.D.S Specification
				HDCP Specification※3
				Aspect Ratio 4 : 3 VGA/SVGA/XGA Max Resolution : XGA/85Hz
				Aspect Ratio 16 : 9 VGA/525p/720p/1080i Max Resolution : 1080i/60Hz
		Stereo Mini Jack	Stereo L/R	0.5Vrms/22kΩ or over
	1 Computer Input	D-Sub Mini 15pin	RGBHV	VGA, SVGA, XGA, SXGA
			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 (Sharing With DVI-D)	Stereo L/R	0.5Vrms/22kΩ or over
	2 Component Input	D-Sub Mini15pin (Sharing With Computer Input)	Y	1.0Vp-p/75Ω (With Sync)
			Cb・Cr (Pb・Pr)	0.7Vp-p/75Ω
			1080p, 1080i, 720p, 480p ,480i /60Hz	
		3 RCA pin	1080i, 576p, 576i /50Hz	
			Progressive PAL-scan/50Hz	
			DVD Component Video Signal (15kHz/31kHz)	
		2 Stereo Mini Jack (1 Sharing With DVI-D)	Stereo L/R	0.5Vrms/22kΩ or over
	1 Video Input	RCA pin	Composite Video	NTSC/NTSC4.43/PAL/PAL-N/ PAL-M/PAL-60/SECAM
				1.0Vp-p/75Ω
		Stereo Mini Jack	Stereo L/R	0.5Vrms/22kΩ or over
	1 S-Video Input	Mini DIN-4pin	Y	1.0Vp-p/75Ω
			C	0.286Vp-p/75Ω
		Stereo Mini Jack	Stereo L/R	0.5Vrms/22kΩ or over
PC-Card Slot		PCMCIA Typell		
Control Terminals	PC Control	MINI DIN8pin	RS-232C	
	SC.Trigger	Stereo Mini Jack	12V 100mA	
Keystone Correction	Horizontal	Manual Max ±25° approx		
	Vertical	Manual Max ±40° approx		
Speakers		2W×2 STEREO		
Environment	Operational Temperatures	41° to 95° F (5° to 35℃),20 to 80% Humidity (Non-Condensing)		
	Storage Temperatures	14° to 122° F (-10° to 50℃),20 to 80% Humidity (Non-Condensing)		
Power Requirement		100 to 120V AC, 200 to 240V AC, 50Hz / 60Hz		
Power Consumption		290 W (Lamp Normal Mode) 0.6 W (Standby)		
Input Current		3.2A (100 to 120V AC) / 1.6A (200 to 240V AC)		
Quietness		32dB (Lamp Normal Mode), 29dB (Lamp Eco Mode)		
Regulations		UL Approved (UL 1950, CSA 950)		
		NöM Approved (NöM-001-SCFI-1993)		
		Meets DOC Canada Class B requirements		
		Meets FCC Class B requirements		
		Meets AS/NZS CISPR.22 : 2002 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)		260mm×92mm×275mm (Not Including Protrusions)		
Net Weight		3.2kg		

※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 dose not refer to the warranty period for the lamp.

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Cat.No.KDLP-0312-171YR

Home Theatre Projector
HT1100

Empowered by Innovation NEC

HT1100, an innovative projector
which has evolved from the HT1000 to bring
you to the next stage of home theatre.

PICTURE BY DLP A TEXAS INSTRUMENTS TECHNOLOGY

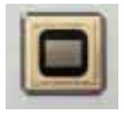
Home Theatre Projector HT1100

From Digital Cinema to Mobile Convenience - NEC projector is the best solution.

The new standard of high picture quality with
new colour wheel of natural colours- Contrast ratio of 3500:1

The standard of picture quality for home theatre has now drastically changed.
NEC, who developed a world first one-unit DLP cinema™ projector with Digital Projection international, has announced its new Home Theatre Projector HT1100.
HT1100 has been developed from HT1000 which opened the door for the new era of home theatre, and has many advanced features beyond HT1000.
The projector expresses black that sets the underlying tone of the image with an exceptional precision and reproduces the visual world with every nuance just as the creator intended.
New 6-segment colour wheel has enhanced the reproduction of colours and presents a more natural skin colour.
The splendour of the HT1100 makes a profound statement about the true reality of digital cinema.

The advanced specification DMD chip has achieved a high contrast of 3500:1.



HT1100 is a DLP (Digital Light Processing)-based projector that has achieved a precise and high contrast picture quality.
The heart of the projector is a DMD (Digital Micro-mirror Device) consisting of more than hundreds of thousands moving microscopic mirrors.
Each mirror turns on or off to reflect or block each colour of light, depending on the pixel colour required.
NEC has employed an advanced specification 12deg DMD chip for a higher picture quality.
High contrast of 3500:1 has been achieved by employing "Iris Lever" and an optical engine uniquely developed by NEC that doesn't utilizes any optical factor e.g. prism between DMD and the projection lens.
The range of the iris setting has been increased to give a 60-100% optical adjustment.
The enhanced flexibility of the adjustment of luminance enables you to use the projector in your family room as well as a theatre room.
HT1100's exceptional power of expression reproduces even the nuances of dark areas that weren't visible before and invites viewers to the impressing visual world.

Iris Lever

Newly developed 10-bit Video Decoder LSI has achieved a precise picture quality.

The most advanced IC technology as well as optical technology has been put into HT1100.
"10-bit Video Decoder LSI", newly developed by NEC, expresses even dark areas more precisely with the gamma correction function that optimizes the characteristics of the input video signal.
The LSI has improved the reproduction of colours drastically so that the skin colour looks more natural.
Furthermore, the picture improvement function enabled by the new LSI - 3D Y/C separation (for NTSC signal) has drastically reduced cross colour, cross luminance, and noise.
It reproduces vivid images by suppressing the image roughness and the color impurity of the video signals as well as the component signals.

* The pictures are image samples.

SweetVision function utilizing the characteristics of the human eye is an industry first technology.

The HT1100 performance has been achieved by uncompromising pursuit of ideal images for the home theatre.
The specification itself is not enough to explain the advanced technology incorporated in HT1100.
For example, NEC developed "SweetVision" function with its unique technology.
This function utilizes the characteristics of the human eye where the contrast for the same tone appears to be enhanced within it's surrounding brightness.
Higher contrast makes shades sharper and reproduces details clearly.
New SweetVision is available even when the input signal is 525i (480i), 625i (576i), 525p (480p), 625p (576p), and adjustable by 64 steps.
By dynamic adjustment of the transmission ratio, it reproduces subtle colours and shades precisely even on bright screens.
The overall enhanced quality of the colour reproduction is ideal even for Hi-Vision images.
You can see the images of before and after the correction on the same screen with Split Mode.
* The picture is an image sample.

After Correction Before Correction

The new OSD (On Screen Display) provides simple operations.

The new OSD has employed a new GUI(Graphical User Interface) and a simple architecture consisting of three windows; TOP, SUB and VIEW window, which has enabled easy setting and confirming of the values.
The number of items in the menu and also the number of layers have been reduced so that you can find your target item without difficulties.

The adjustment window has been made compact and easy to use.

The new colour wheel has improved colour purity.

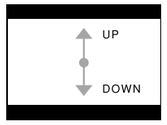
HT1100 has employed a new 6-segment colour wheel, which reduces colour breakups and improves colour purity.
The new colour wheel supports operation at up to 5 times speed to optimise vertical synchronisation for both video and data presentations.

The design for the quietness has achieved 29dB which doesn't interfere with the visual world.

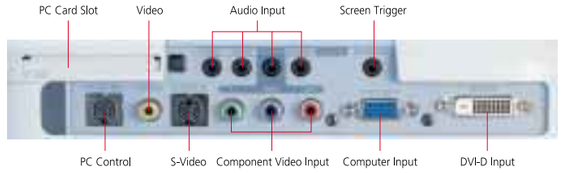
The quietness of 29dB at Lamp Eco Mode (32dB at Normal Mode) has been achieved by a developed motor and feedback-type fan control circuit that optimizes the cooling conditions to match the use.
This whisper quietness will ensure you maintain the exceptional presentation environment of your show.

The screen positioning function enables you to select a desirable screen position.

When you project an image of 16:9 to the screen of 4:3, you can adjust the image position in vertical direction as you want.
This function has drastically improved the flexibility of installation when using a 16:9 screen.
The projector is also equipped with an application to use an anamorphic lens to enhance resolution when using the 16:9 screen.



* The anamorphic lens can be mounted only when the projector is mounted on a ceiling.
* Please consult to an NEC dealer or distributor to mount the anamorphic lens.

The advanced interface supports a wide range of video sources.

Equipped with the HDCP (High-bandwidth Digital Content Protection System) -compatible DVI (Digital Visual Interface) and the PC Card Viewer supporting digital camera images, the HT1100 supports a variety of home entertainment multimedia of the digital age.
The enhancement of DVI input function has contributed to the higher picture quality and provides rich adjustment functions.
Furthermore, it is equipped with a screen trigger terminal that interlocks the on/off of the main unit power and the up/down of the screen with the use of devices like screen controllers.