

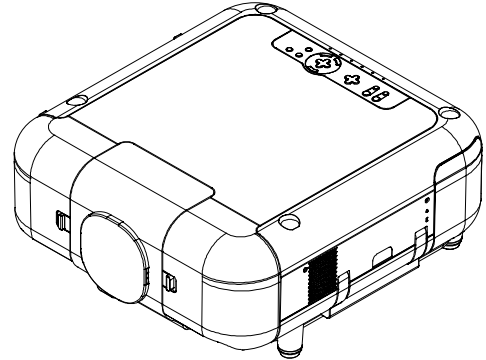
GT6000R Installation Guide

With 1.0:1 Rear Lens

v1.5

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Product Description

Type:	3 panel LCD/Dual Lamp Projector	Dimensions:	20.4"(W) x 9.5"(H) x 21.8"(D)
	1.4" p-Si TFT w/MLA	Weight:	41.7 lbs (w/GT10RLB lens)
Native Resolution:	1400x1050 (SXGA+)	Brightness:	1000 ANSI single lamp / 2000 ANSI dual lamp
Network Ready, integrated wired network adapter		Power Focus	

Lens Specifications

GT10RLB	Throw Ratio:	1.0:1(approx.)	Focal Length:	28.9mm
	Screen Sizes:	40"-250"	F/#:	2.4

Note: Lens shift is not available on the GT10RLB rear lens. The GT6000R should be used only for "zero degree/no-offset" rear projection applications.

Note: There are no other optional lenses available for the GT6000R. The GT6000R ships from the factory with the GT10RLB lens.

Notes

- For screen sizes not indicated on the projection charts, use the formulas below.
- If a value in a chart does not match the results of the formulas, use the values in the chart.
- The ceiling must be strong enough to support the projector and the installation must be in accordance with any local building codes.
- All formulas are based on a 4:3 aspect ratio and screen.
- 4:3 sources can be displayed on a 16:9 screen without vertical "squeezing", see "Aspect Ratio" in the user manual.
- The replacement lamp for the GT6000R is the long life lamp GT60LPS only.
- Distances are in inches, for millimeters multiply by 25.4.
- Distances may vary $\pm 5\%$.

Formulas (for a 4:3 screen)

Units: Inches (for millimeters multiply final number by 25.4)

Projection Formula:

$$C = 1.0034H - 2.087$$

Definitions:

H = Horizontal Screen Width (4:3)

V = Vertical Screen Height (4:3)

C = Throw Distance

Screen Formulas:

H = Screen Diagonal x 4/5

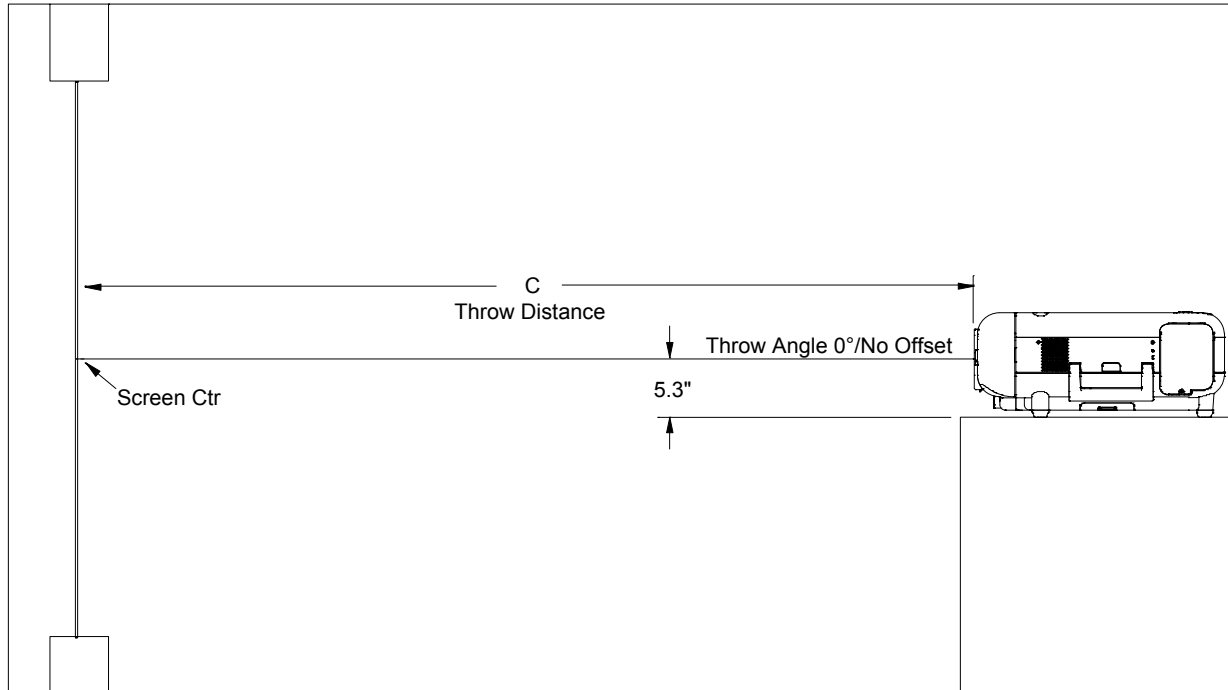
V = Screen Diagonal x 3/5

Screen Diagonal = $H \times 5/4$

Note: Tilting the front of the projector up or down by more than 45° from level could reduce lamp life by up to 20%.

Rear Projection Setup

The following diagram shows the relationship between projector position and the screen. Refer to the chart below for data. Distances are in inches. For millimeters multiply by 25.4.



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Note: Tilting the front of the projector up or down by more than 45° from level could reduce lamp life by up to 20%.

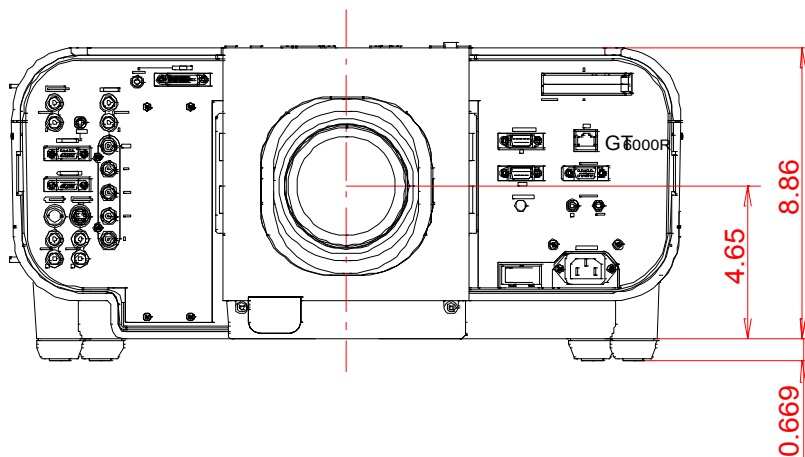
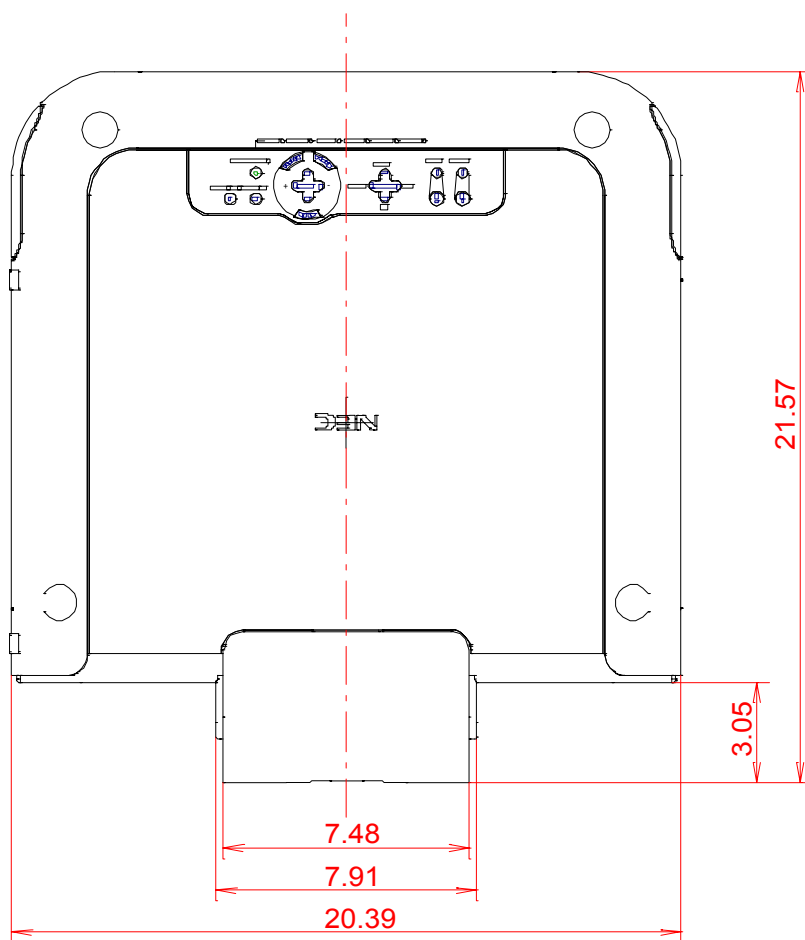
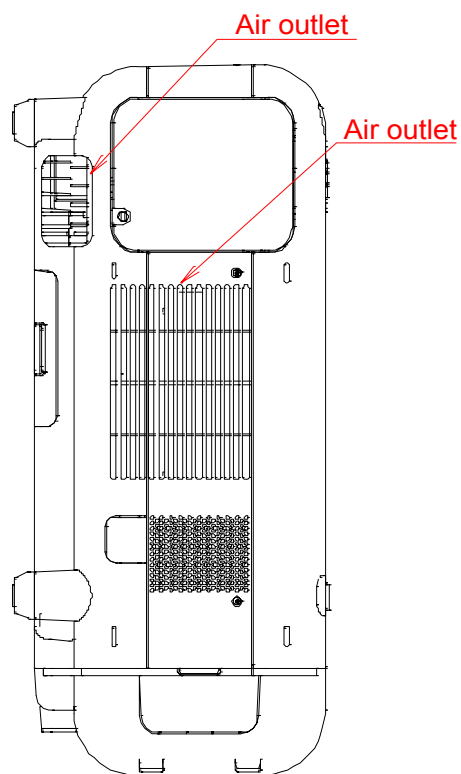
Distance Chart (for popular 4:3 screen sizes)

Screen Size (4:3)			Throw Distance
			Rear Lens
			GT10RLB
Diagonal	Width(H)	Height (V)	1.0:1
inches	inches	inches	inches
40	32	24	30.0
60	48	36	46.1
67	53.6	40.2	51.7
72	57.6	43.2	55.7
80	64	48	62.1
84	67.2	50.4	65.3
90	72	54	70.2
100	80	60	78.2
120	96	72	94.2
150	120	90	118.3
180	144	108	142.4
210	168	126	166.5
240	192	144	190.6
250	200	150	198.6

Note: For screen sizes not indicated on the projection chart, use the formulas on page 1.

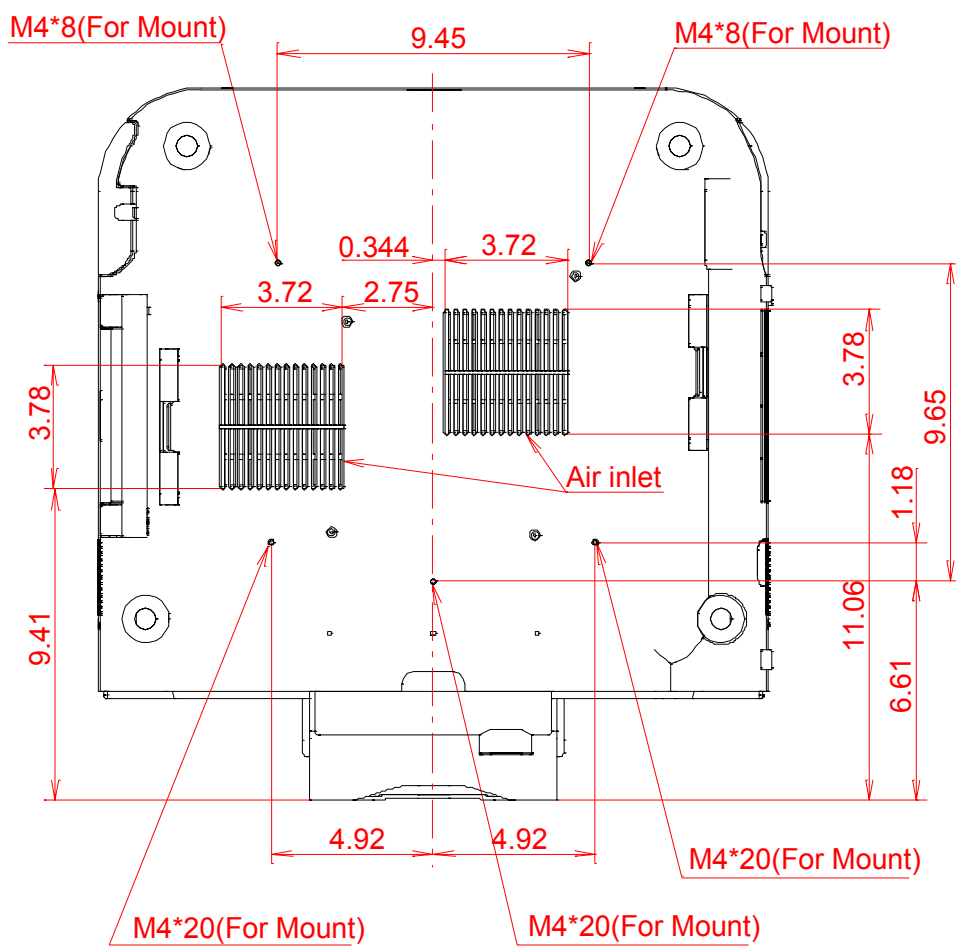
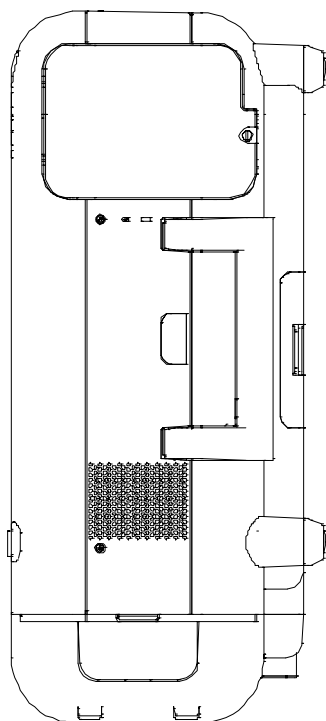
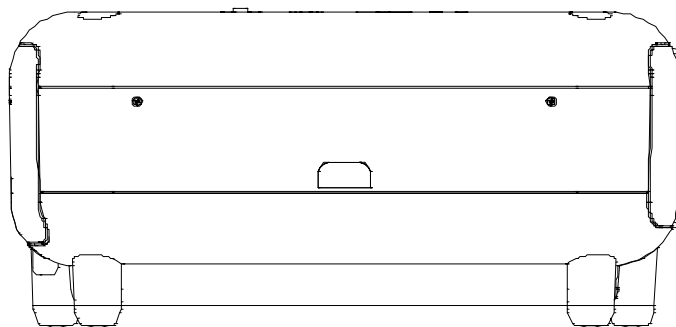
Cabinet Dimensions

The following drawings show cabinet dimensions.
Dimensions are in inches. For millimeters multiply by 25.4.



Cabinet Dimensions (continued)

The following drawings show cabinet dimensions.
Dimensions are in inches. For millimeters multiply by 25.4.



Control Codes

Function	Code Data					
POWER ON	02H	00H	00H	00H	00H	02H
POWER OFF	02H	01H	00H	00H	00H	03H
INPUT SELECT RGB 1	02H	03H	00H	00H	02H	01H 01H 09H
INPUT SELECT RGB 2	02H	03H	00H	00H	02H	01H 02H 0AH
INPUT SELECT VIDEO	02H	03H	00H	00H	02H	01H 06H 0EH
INPUT SELECT S-VIDEO	02H	03H	00H	00H	02H	01H 0BH 13H
INPUT SELECT DVI (DIGITAL)	02H	03H	00H	00H	02H	01H 1AH 22H
INPUT SELECT VIEWER	02H	03H	00H	00H	02H	01H 1FH 27H
LAN	02H	03H	00H	00H	02H	01H 20H 28H
RGB1(VIDEO)	02H	03H	00H	00H	02H	01H 07H 0FH
RGB1(S-VIDEO)	02H	03H	00H	00H	02H	01H 0CH 14H
PICTURE MUTE ON	02H	10H	00H	00H	00H	12H
PICTURE MUTE OFF	02H	11H	00H	00H	00H	13H
SOUND MUTE ON	02H	12H	00H	00H	00H	14H
SOUND MUTE OFF	02H	13H	00H	00H	00H	15H
ON SCREEN MUTE ON	02H	14H	00H	00H	00H	16H
ON SCREEN MUTE OFF	02H	15H	00H	00H	00H	17H

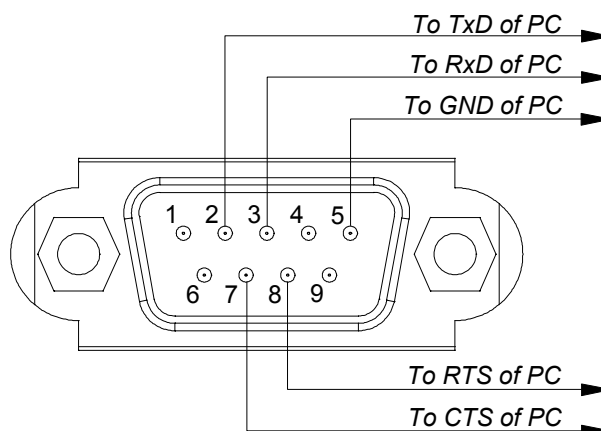
Note: Contact your NEC rep for codes not listed.

Cable Connection

Communication Protocol:

Baud Rate: 38400 bps
Data Length: 8 bits
Parity: No Parity
Stop Bit: One bit
X on/off: None
Communications: Full duplex

PC Control Connector (D-Sub 9P)



NOTE1: It is recommended to set the projector to "Idle Mode" in the Setup menu for best Power ON response.

NOTE2: Pins 1, 4, 6, and 9 are used inside the projector.

NOTE3: Jumper "Request to send" and "Clear to Send" together on both ends of the cable to simplify cable connection.

NOTE4: For long cable runs it is recommended to set communication speed to 9600 bps in the Setup menu.