SHARP[®]

DATA PROJECTOR MODEL XG-P610X XG-P610X-N

SETUP MANUAL

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Setting up the Screen

For optimal image quality, position the projector perpendicular to the screen with the projector's feet flat and level. Doing so will eliminate the need for Keystone correction and provide the best image quality.

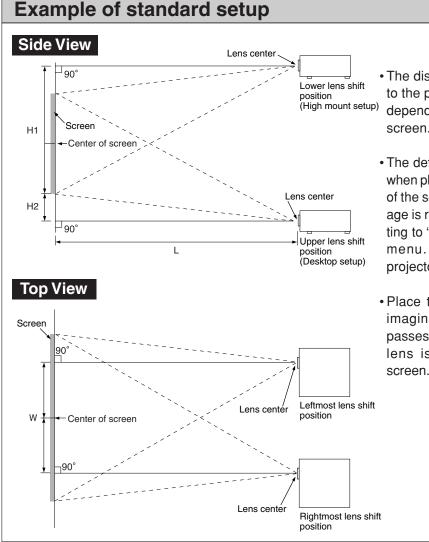
Note Note

- The projector lens should be centered in the middle of the screen. If the horizontal line passing through the lens center is not perpendicular to the screen, the image will be distorted, making viewing difficult.
- For an optimal image, position the screen so that it is not in direct sunlight or room light. Light falling directly on the screen washes out the colors, making viewing difficult. Close the curtains and dim the lights when setting up the screen in a sunny or bright room.

Standard Setup (Front Projection)

Place the projector at the required distance from the screen according to the desired picture size.





- The distance from the screen to the projector may vary depending on the size of the screen.
- The default setting can be used, when placing the projector in front of the screen. If the projected image is reversed, readjust the setting to "Front" in the "PRJ Mode" menu. (See page **62** of the projector's operation manual.)
- Place the projector so that an imaginary horizontal line that passes through the center of the lens is perpendicular to the screen.

Screen Size and Projection Distance

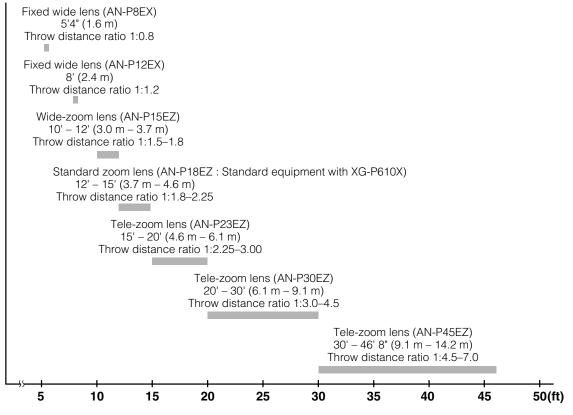
The projection screen size varies according to the distance from the lens of the projector to the screen. The optional lenses from Sharp are also available for specialized application. Please see your nearest Sharp Authorized Projector Dealer to details on all the lenses. (Refer to the lens operation manual when using a lens.)

Install the projector so that projected images are projected onto the screen at the optimum size by referring to the table. Use the values in the table as a reference when installing the projector.

Throw Distance

The graph below is for 100 inches (254 cm) screen with 4:3 normal mode.

Screen



Standard Zoom Lens (AN-P18EZ : Standard Equipment with XG-P610X) F2.5, f=25.5-32 mm

4:3 Signal Input (Normal Mode)

Pic	ture (Screen) si	ize	Projection	distance [L] Distance from the bottom of t			Distance from the lens center to the center of
Diag. [X]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]
300" (762 cm)	610 cm (240")	457 cm (180")	11.0 m (36' 0'')	13.7 m (45' 0'')	-480.1 cm (-189")	22.9 cm (9")	±213.4 cm (84")
250" (635 cm)	508 cm (200")	381 cm (150")	9.1 m (30' 0")	11.4 m (37' 6")	-400.1 cm (-157 1/2")	19.1 cm (7 ¹ /2")	±177.8 cm (70")
200" (508 cm)	406 cm (160")	305 cm (120")	7.3 m (24' 0")	9.1 m (30' 0'')	-320.0 cm (-126")	15.2 cm (6")	±142.2 cm (56")
150" (381 cm)	305 cm (120")	229 cm (90")	5.5 m (18' 0")	6.9 m (22' 6'')	-240.0 cm (-94 1/2")	11.4 cm (4 1/2")	±106.7 cm (42")
120" (305 cm)	244 cm (96")	183 cm (72")	4.4 m (14' 5")	5.5 m (18' 0'')	-192.0 cm (-75 ¹⁹ / ₃₂ ")	9.1 cm (3 ¹⁹ / ₃₂ ")	±85.3 cm (33 ¹⁹ / ₃₂ ")
100" (254 cm)	203 cm (80")	152 cm (60")	3.7 m (12' 0")	4.6 m (15' 0'')	-160.0 cm (-63")	7.6 cm (3")	±71.1 cm (28")
80" (203 cm)	163 cm (64")	122 cm (48")	2.9 m (9' 7'')	3.7 m (12' 0'')	-128.0 cm (-50 ¹³ / ₃₂ ")	6.1 cm (2 ¹³ / ₃₂ ")	±56.9 cm (22 ¹³ / ₃₂ ")
70" (178 cm)	142 cm (56")	107 cm (42")	2.6 m (8' 5'')	3.2 m (10' 6")	-112.0 cm (-44 3/32")	5.3 cm (2 ³ / ₃₂ ")	±49.8 cm (19 ¹⁹ / ₃₂ ")
60" (152 cm)	122 cm (48")	91 cm (36")	2.2 m (7' 2'')	2.7 m (9' 0")	-96.0 cm (-37 ⁵¹ / ₆₄ ")	4.6 cm (1 ⁵¹ / ₆₄ ")	±42.7 cm (16 ⁵¹ / ₆₄ ")

χ: Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

 $\begin{bmatrix} m/cm \end{bmatrix} \\ L1 (m) = 0.03658\% \\ L2 (m) = 0.04572\% \\ H1 (cm) = -1.6002\% \\ H2 (cm) = 0.0762\% \\ W (cm) = \pm 0.7112\% \\ [Feet/inches] \\ L1 (ft) = 0.03658\% / 0.3048 \\ L2 (ft) = 0.04572\% / 0.3048 \\ H1 (in) = -1.6002\% / 2.54 \\ H2 (in) = 0.0762\% / 2.54 \\ W (in) = \pm 0.7112\% / 2.54 \\ \end{array}$

16:9 Signal Input (Stretch Mode)

Pic	ture (Screen) si	ze	Projection distance [L]		Distance from the lens center to the bottom of the image [H]		Distance from the lens center to the center of
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]
250" (635 cm)	553 cm (218")	311 cm (123")	10.0 m (32' 8")	12.5 m (40' 10")	-384.0 cm (-151 11/64")	72.6 cm (28 19/32")	±193.7 cm (76 ¹⁷ / ₆₄ ")
200" (508 cm)	443 cm (174")	249 cm (98")	8.0 m (26' 2")	10.0 m (32' 8")	-307.2 cm (-120 15/16")	58.1 cm (22 7/8")	±155.0 cm (61 1/64")
150" (381 cm)	332 cm (131")	187 cm (74")	6.0 m (19' 7")	7.5 m (24' 6")	-230.4 cm (-90 45/64")	43.6 cm (17 5/32")	±116.2 cm (45 ³ /4")
120" (305 cm)	266 cm (105")	149 cm (59")	4.8 m (15' 8")	6.0 m (19' 7")	-184.3 cm (-72 ⁹ /16")	34.9 cm (13 47/64")	±93.0 cm (36 ³⁹ / ₆₄ ")
100" (254 cm)	221 cm (87")	125 cm (49")	4.0 m (13' 1")	5.0 m (16' 4")	-153.6 cm (-60 15/32")	29.1 cm (11 7/16")	±77.5 cm (30 1/2")
80" (203 cm)	177 cm (70")	100 cm (39")	3.2 m (10' 6")	4.0 m (13' 1")	-122.9 cm (-48 3/8")	23.2 cm (9 ⁵ / ₃₂ ")	±62.0 cm (24 ¹³ / ₃₂ ")
60" (152 cm)	133 cm (52")	75 cm (29")	2.4 m (7' 10")	3.0 m (9' 10")	-92.1 cm (-36 %)32")	17.4 cm (6 55/64")	±46.5 cm (18 ¹⁹ / ₆₄ ")

χ: Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in) W: Distance from the lens center to the center of the image (cm/in) The formula for picture size and projection distance [m/cm] L1 (m) = 0.03985% L2 (m) = 0.04981% H1 (cm) = -1.53583%H2 (cm) = 0.29056%W (cm) = $\pm 0.77483 %$ [Feet/inches] L1 (ft) = 0.03985% / 0.3048L2 (ft) = 0.03985% / 0.3048H1 (in) = -1.53583% / 2.54H2 (in) = 0.29056% / 2.54W (in) = $\pm 0.77483% / 2.54$



• Allow a margin of error in the value in the diagrams above.

Fixed Wide Lens (AN-P8EX)

F2.5, f=11.6 mm

4:3 Signal Input (Normal Mode)

Pic	Picture (Screen) size		Projection distance	Distance from the bottom of	ne lens center to the image [H]	Distance from the lens center to the center of
Diag. [χ]	Width	Height	[L]	Lower [H1]	Upper [H2]	the image [W]
150" (381 cm)	305 cm (120")	229 cm (90")	2.4 m (8' 0")	-155.4 cm (-61 ¹³ / ₆₄ ")	-73.2 cm (-28 ⁵¹ / ₆₄ ")	± 33.5cm (13 ¹³ / ₆₄ ")
120" (305 cm)	244 cm (96")	183 cm (72")	2.0 m (6' 5")	-124.4 cm (-48 ⁶¹ / ₆₄ ")	-58.5 cm (-23 ³ / ₆₄ ")	± 26.8cm (10 ⁹ / ₁₆ ")
100" (254 cm)	203 cm (80")	152 cm (60")	1.6 m (5' 4")	-103.6 cm (-40 ⁵¹ / ₆₄ ")	-48.8 cm (-19 13/64")	± 22.4cm (8 ⁵¹ / ₆₄ ")
80" (203 cm)	163 cm (64")	122 cm (48")	1.3 m (4' 3")	-82.9 cm (-32 ⁴¹ / ₆₄ ")	-39.0 cm (-15 23/64")	± 17.9cm (7 ³/ ₆₄ ")

χ: Picture size (diag.) (in/cm)L: Projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/m)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

 $\begin{array}{l} \textbf{[m/cm]} \\ L (m) = 0.01626 \text{X} \\ H1 (cm) = -1.03632 \text{X} \\ H2 (cm) = -0.48768 \text{X} \\ W (cm) = \pm 0.22352 \text{X} \\ \textbf{[Feet/inches]} \\ L (ft) = 0.01626 \text{X} / 0.3048 \\ H1 (in) = -1.03632 \text{X} / 2.54 \\ H2 (in) = -0.48768 \text{X} / 2.54 \\ W (in) = \pm 0.22352 \text{X} / 2.54 \end{array}$

16:9 Signal Input (Stretch Mode)

Pic	Picture (Screen) size		Projection distance	Distance from the lens center to the bottom of the image [H]		Distance from the lens center to the center of
Diag. [χ]	Width	Height	[L]	Lower [H1] Upper [H2]		the image [W]
120" (305 cm)	266 cm (105")	149 cm (59")	2.1 m (7' 0")	-110.6 cm (-43 17/32")	-38.9 cm (-15 19/64")	±29.2cm (11 1/2")
100" (254 cm)	221 cm (87")	125 cm (49")	1.8 m (5' 10")	-92.2 cm (-36 ⁹ / ₃₂ ")	-32.4 cm (-12 3/4")	±24.4cm (9 ¹⁹ / ₃₂ ")
80" (203 cm)	177 cm (70")	100 cm (39")	1.4 m (4' 8")	-73.7 cm (-29 1/32")	-25.9 cm (-10 13/64")	±19.5cm (7 ⁴³ / ₆₄ ")

χ: Picture size (diag.) (in/cm)

L: Projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

 $\begin{array}{l} \textbf{[m/cm]} \\ L (m) = 0.01771\% \\ H1 (cm) = -0.9215\% \\ H2 (cm) = -0.32377\% \\ W (cm) = \pm 0.24352\% \\ \textbf{[Feet/inches]} \\ L (tt) = 0.01771\% / 0.3048 \\ H1 (in) = -0.9215\% / 2.54 \\ H2 (in) = -0.32377\% / 2.54 \\ W (in) = \pm 0.24352\% / 2.54 \\ \end{array}$



• Allow a margin of error in the value in the diagrams above.

Fixed Wide Lens (AN-P12EX)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in) W: Distance from the lens center to the center of the image (cm/in)

F2.5, f=17.1 mm

4:3 Signal Input (Normal Mode)

Pic	Picture (Screen) size		Projection distance	Distance from th the bottom of		Distance from the lens center to the center of
Diag. [X]	Width	Height	[L]	Lower [H1]	Upper [H2]	the image [W]
250" (635 cm)	508 cm (200")	381 cm (150")	6.1 m (20' 0")	-259.1 cm (-102")	-121.9 cm (-48")	±55.9cm (22")
200" (508 cm)	406 cm (160")	305 cm (120")	4.9 m (16' 0")	-207.3 cm (-81 ¹⁹ / ₃₂ ")	-97.5 cm (-38 13/32")	±44.7cm (17 19/32")
150" (381 cm)	305 cm (120")	229 cm (90")	3.7 m (12' 0")	-155.4 cm (-61 13/64")	-73.2 cm (-28 ⁵¹ / ₆₄ ")	±33.5cm (13 ¹³ / ₆₄ ")
120" (305 cm)	244 cm (96")	183 cm (72")	2.9 m (9' 7")	-124.4 cm (-48 61/64")	-58.5 cm (-23 3/64")	±26.8cm (10 ⁹ / ₁₆ ")
100" (254 cm)	203 cm (80")	152 cm (60")	2.4 m (8' 0")	-103.6 cm (-40 51/64")	-48.8 cm (-19 13/64")	±22.4cm (8 51/64")
80" (203 cm)	163 cm (64")	122 cm (48")	2.0 m (6' 5")	-82.9 cm (-32 41/64")	-39.0 cm (-15 ²³ / ₆₄ ")	±17.9cm (7 ³ / ₆₄ ")
70" (178 cm)	142 cm (56")	107 cm (42")	1.7 m (5' 7")	-72.5 cm (-28 ⁹ / ₁₆ ")	-34.1 cm (-13 ⁷ / ₁₆ ")	±15.6cm (6 ⁵ / ₃₂ ")
60" (152 cm)	122 cm (48")	91 cm (36")	1.5 m (4' 10")	-62.2 cm (-24 ³¹ / ₆₄ ")	-29.3 cm (-11 33/64")	±13.4cm (5 ⁹ / ₃₂ ")

χ: Picture size (diag.) (in/cm)L: Projection distance (m/ft)

The formula for picture size and projection distance [m/cm]

 $\begin{array}{l} \text{(m)} = 0.02438 \mbox{χ} \\ \text{H1} \mbox{(m)} = -1.03632 \mbox{χ} \\ \text{H2} \mbox{(m)} = -0.48768 \mbox{χ} \\ \text{W} \mbox{(m)} = -0.2438 \mbox{$/$ 0.3048$} \\ \text{W} \mbox{$(m)$} = -1.03632 \mbox{$/$ 0.3048$} \\ \text{H1} \mbox{$(n)$} = -0.48768 \mbox{$/$ 2.54$} \\ \text{W} \mbox{$(m)$} = \pm 0.22352 \mbox{$/$ 2.54$} \\ \mbox{$(m)$} = \pm 0.22352 \mbox{$/$ 2.54$} \\ \end{array}$

16:9 Signal Input (Stretch Mode)

Pic	Picture (Screen) size		Projection distance	Distance from th the bottom of		Distance from the lens center to the center of
Diag. [X]	Width	Height	[L]	Lower [H1]	Upper [H2]	the image [W]
200" (508 cm)	443 cm (174")	249 cm (98")	5.3 m (17' 5")	-184.3 cm (-72 1/32")	-64.8 cm (-25 1/2")	±48.7cm (19 11/64")
150" (381 cm)	332 cm (131")	187 cm (74")	4.0 m (13' 1")	-138.2 cm (-54 27/64")	-48.6 cm (-19 1/8")	±36.5cm (14 3/8")
120" (305 cm)	266 cm (105")	149 cm (59")	3.2 m (10' 5")	-110.6 cm (-43 ¹⁷ / ₃₂ ")	-38.9 cm (-15 19/64")	±29.2cm (11 1/2")
100" (254 cm)	221 cm (87")	125 cm (49")	2.7 m (8' 9")	-92.2 cm (-36 ⁹ / ₃₂ ")	-32.4 cm (-12 3/4")	±24.4cm (9 ¹⁹ / ₃₂ ")
80" (203 cm)	177 cm (70")	100 cm (39")	2.1 m (7' 0")	-73.7 cm (-29 1/32")	-25.9 cm (-10 13/64")	±19.5cm (7 43/64")
60" (152 cm)	133 cm (52")	75 cm (29")	1.6 m (5' 3")	-55.3 cm (-21 49/64")	-19.4 cm (-7 ⁴¹ / ₆₄ ")	±14.6cm (5 ³ /4")

χ: Picture size (diag.) (in/cm)L: Projection distance (m/ft)

L: Projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in) W: Distance from the lens center to the center of the image (cm/in) The formula for picture size and projection distance

 $\begin{array}{l} [m/cm] \\ L (m) = 0.02656\% \\ H1 (cm) = -0.9215\% \\ H2 (cm) = -0.3237\% \\ W (cm) = \pm 0.24352\% \\ [Feet/inches] \\ L (ft) = 0.02656\% / 0.3048 \\ H1 (in) = -0.9215\% / 2.54 \\ H2 (in) = -0.3237\% / 2.54 \\ W (in) = \pm 0.24352\% / 2.54 \end{array}$



• Allow a margin of error in the value in the diagrams above.

Wide-zoom Lens (AN-P15EZ)

F2.5, f=21.2-25.8 mm

4:3 Signal Input (Normal Mode)

Pic	Picture (Screen) size		Projection distance [L]		Distance from the lens center to the bottom of the image [H]		Distance from the lens center to the center of	
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]	
250" (635 cm)	508 cm (200")	381 cm (150")	7.6 m (25' 0")	9.1 m (30' 0")	-400.1 cm (-157 1/2")	19.1 cm (7 ¹ /2")	±177.8cm (70")	
200" (508 cm)	406 cm (160")	305 cm (120")	6.1 m (20' 0")	7.3 m (24' 0")	-320.0 cm (-126")	15.2 cm (6")	±142.2cm (56")	
150" (381 cm)	305 cm (120")	229 cm (90")	4.6 m (15' 0")	5.5 m (18' 0")	-240.0 cm (-94 1/2")	11.4 cm (4 1/2")	±106.7cm (42")	
120" (305 cm)	244 cm (96")	183 cm (72")	3.7 m (12' 0")	4.4 m (14' 5")	-192.0 cm (-75 ¹⁹ / ₃₂ ")	9.1 cm (3 ¹⁹ / ₃₂ ")	±85.3cm (33 ¹⁹ / ₃₂ ")	
100" (254 cm)	203 cm (80")	152 cm (60")	3.0 m (10' 0")	3.7 m (12' 0")	-160.0 cm (-63")	7.6 cm (3")	±71.1cm (28")	
80" (203 cm)	163 cm (64")	122 cm (48")	2.4 m (8' 0")	2.9 m (9' 7")	-128.0 cm (-50 13/32")	6.1 cm (2 ¹³ / ₃₂ ")	±56.9cm (22 13/32")	
70" (178 cm)	142 cm (56")	107 cm (42")	2.1 m (7' 0")	2.6 m (8' 5")	-112.0 cm (-44 3/32")	5.3 cm (2 ³ / ₃₂ ")	±49.8cm (19 19/32")	
60" (152 cm)	122 cm (48")	91 cm (36")	1.8 m (6' 0")	2.2 m (7' 2")	-96.0 cm (-37 ⁵¹ / ₆₄ ")	4.6 cm (1 51/64")	±42.7cm (16 51/64")	

χ: Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

- H1: Lower distance from the lens center to the bottom of the image (cm/in)
- H2: Upper distance from the lens center to the bottom of the image (cm/in)
- W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance **[m/cm]** L1 (m) = 0.03048% L2 (m) = 0.03658% H1 (cm) = -1.6002%H2 (cm) = 0.0762%W (cm) = $\pm 0.7112\%$ **[Feet/inches]** L1 (ft) = 0.03658% / 0.3048L2 (ft) = 0.03658% / 0.3048H1 (in) = -1.6002% / 2.54H2 (in) = 0.0762% / 2.54W (in) = $\pm 0.7112\% / 2.54$

16:9 Signal Input (Stretch Mode)

Pic	Picture (Screen) size Projection		Projection	rojection distance [1]		ne lens center to the image [H]	Distance from the lens center to the center of
Diag. [X]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]
200" (508 cm)	443 cm (174")	249 cm (98")	6.6 m (21' 9")	8.0 m (26' 2")	-307.2 cm (-120 15/16")	58.1 cm (22 7/8")	±155.0cm (61 1/64")
150" (381 cm)	332 cm (131")	187 cm (74")	5.0 m (16' 4")	6.0 m (19' 7")	-230.4 cm (-90 45/64")	43.6 cm (17 5/32")	±116.2cm (45 ³ /4")
120" (305 cm)	266 cm (105")	149 cm (59")	4.0 m (13' 1")	4.8 m (15' 8")	-184.3 cm (-72 ⁹ / ₁₆ ")	34.9 cm (13 47/64")	±93.0cm (36 ³⁹ / ₆₄ ")
100" (254 cm)	221 cm (87")	125 cm (49")	3.3 m (10' 11")	4.0 m (13' 1")	-153.6 cm (-60 15/32")	29.1 cm (11 7/16")	±77.5cm (30 1/2")
80" (203 cm)	177 cm (70")	100 cm (39")	2.7 m (8' 9")	3.2 m (10' 6")	-122.9 cm (-48 3/8")	23.2 cm (9 5/32")	±62.0cm (24 ¹³ / ₃₂ ")
60" (152 cm)	133 cm (52")	75 cm (29")	2.0 m (6' 6")	2.4 m (7' 10")	-92.1 cm (-36 ⁹ / ₃₂ ")	17.4 cm (6 55/64")	±46.5cm (18 ¹⁹ / ₆₄ ")

χ: Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

 $\begin{array}{l} \textbf{[m/cm]} \\ L1 (m) = 0.03321\% \\ L2 (m) = 0.03985\% \\ H1 (cm) = -1.53583\% \\ H2 (cm) = 0.29056\% \\ W (cm) = \pm 0.77483\% \\ \textbf{[Feet/inches]} \\ L1 (ft) = 0.03321\% / 0.3048 \\ L2 (ft) = 0.03985\% / 0.3048 \\ H1 (in) = -1.53583\% / 2.54 \\ H2 (in) = 0.29056\% / 2.54 \\ W (in) = \pm 0.77483\% / 2.54 \end{array}$



• Allow a margin of error in the value in the diagrams above.

Tele-zoom Lens (AN-P23EZ)

F2.5, f=31.9-42.5 mm

4:3 Signal Input (Normal Mode)

Pic	Picture (Screen) size Projection dista		distance [L]	stance [L] Distance from the lens center to the bottom of the image [H]		Distance from the lens center to the center of	
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]
250" (635 cm)	508 cm (200")	381 cm (150")	11.4 m (37' 6")	15.2 m (50' 0")	-400.1 cm (-157 1/2")	19.1 cm (7 ¹ /2")	±177.8cm (70")
200" (508 cm)	406 cm (160")	305 cm (120")	9.1 m (30' 0")	12.2 m (40' 0")	-320.0 cm (-126")	15.2 cm (6")	±142.2cm (56")
150" (381 cm)	305 cm (120")	229 cm (90")	6.9 m (22' 6")	9.1 m (30' 0")	-240.0 cm (-94 1/2")	11.4 cm (4 1/2")	±106.7cm (42")
120" (305 cm)	244 cm (96")	183 cm (72")	5.5 m (18' 0")	7.3 m (24' 0")	-192.0 cm (-75 ¹⁹ / ₃₂ ")	9.1 cm (3 ¹⁹ / ₃₂ ")	±85.3cm (33 ¹⁹ / ₃₂ ")
100" (254 cm)	203 cm (80")	152 cm (60")	4.6 m (15' 0")	6.1 m (20' 0")	-160.0 cm (-63")	7.6 cm (3")	±71.1cm (28")
80" (203 cm)	163 cm (64")	122 cm (48")	3.7 m (12' 0")	4.9 m (16' 0")	-128.0 cm (-50 ¹³ / ₃₂ ")	6.1 cm (2 ¹³ / ₃₂ ")	±56.9cm (22 13/32")
70" (178 cm)	142 cm (56")	107 cm (42")	3.2 m (10' 6")	4.3 m (14' 0")	-112.0 cm (-44 3/32")	5.3 cm (2 3/32")	±49.8cm (19 19/32")
60" (152 cm)	122 cm (48")	91 cm (36")	2.7 m (9' 0")	3.7 m (12' 0")	-96.0 cm (-37 ⁵¹ / ₆₄ ")	4.6 cm (1 ⁵¹ / ₆₄ ")	±42.7cm (16 51/64")

Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in) W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance [m/cm]

L1 (m) = 0.04572X L2 (m) = 0.06096X H1 (cm) = -1.6002XH2 (cm) = 0.0762XW (cm) = $\pm 0.7112X$ [Feet/inches] L1 (ft) = 0.04572% / 0.3048 L2 (ft) = 0.06096X / 0.3048 H1 (in) = $-1.6002\chi / 2.54$ H2 (in) = $0.0762\chi / 2.54$ W (in) = ±0.7112X / 2.54

16:9 Signal Input (Stretch Mode)

Pic	Picture (Screen) size Projection distance		distance [L]	Distance from the lens center to the bottom of the image [H]		Distance from the lens center to the center of	
Diag. [X]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]
200" (508 cm)	443 cm (174")	249 cm (98")	10.0 m (32' 8")	13.3 m (43' 7")	-307.2 cm (-120 15/16")	58.1 cm (22 7/8")	±155.0cm (61 ¹ / ₆₄ ")
150" (381 cm)	332 cm (131")	187 cm (74")	7.5 m (24' 6")	10.0 m (32' 8")	-230.4 cm (-90 45/64")	43.6 cm (17 5/32")	±116.2cm (45 ³ /4")
120" (305 cm)	266 cm (105")	149 cm (59")	6.0 m (19' 7")	8.0 m (26' 2")	-184.3 cm (-72 ⁹ /16")	34.9 cm (13 47/64")	±93.0cm (36 39/64")
100" (254 cm)	221 cm (87")	125 cm (49")	5.0 m (16' 4")	6.6 m (21' 9")	-153.6 cm (-60 15/32")	29.1 cm (11 7/16")	±77.5cm (30 1/2")
80" (203 cm)	177 cm (70")	100 cm (39")	4.0 m (13' 1")	5.3 m (17' 5")	-122.9 cm (-48 3/8")	23.2 cm (9 5/32")	±62.0cm (24 13/32")
60" (152 cm)	133 cm (52")	75 cm (29")	3.0 m (9' 10")	4.0 m (13' 1")	-92.1 cm (-36 %)2")	17.4 cm (6 55/64")	±46.5cm (18 ¹⁹ / ₆₄ ")

Picture size (diag.) (in/cm) χ :

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

 $\begin{array}{l} \text{[m/cm]} \\ \text{L1 (m)} = 0.04981\% \\ \text{L2 (m)} = 0.06641\% \\ \text{H1 (cm)} = -1.53583\% \end{array}$ H2 (cm) = 0.29056% W (cm) = ±0.77483% [Feet/inches] L1 (ft) = 0.04981X / 0.3048 $L2 (ft) = 0.06641 \chi / 0.3048$ H1 (in) = -1.53583X / 2.54 H2 (in) = 0.29056X / 2.54 W (in) = ±0.77483% / 2.54



• Allow a margin of error in the value in the diagrams above.

Tele-zoom Lens (AN-P30EZ)

F2.5, f=40.8-62.8 mm

4:3 Signal Input (Normal Mode)

Pic	ture (Screen) si	ize	Projection	distance [L]	Distance from th the bottom of		Distance from the lens center to the center of		
Diag. [χ]	.g. [χ] Width Height		Minimum [L1] Maximum [L2]		Lower [H1]	Upper [H2]	the image [W]		
250" (635 cm)	508 cm (200")	381 cm (150")	15.2 m (50' 0")	22.9 m (75' 0")	-400.1 cm (-157 1/2")	19.1 cm (7 ¹ /2")	±177.8cm (70")		
200" (508 cm)	406 cm (160")	305 cm (120")	12.2 m (40' 0")	18.3 m (60' 0")	-320.0 cm (-126")	15.2 cm (6")	±142.2cm (56")		
150" (381 cm)	305 cm (120")	229 cm (90")	9.1 m (30' 0")	13.7 m (45' 0")	-240.0 cm (-94 1/2")	11.4 cm (4 1/2")	±106.7cm (42")		
120" (305 cm)	244 cm (96")	183 cm (72")	7.3 m (24' 0")	11.0 m (36' 0")	-192.0 cm (-75 ¹⁹ / ₃₂ ")	9.1 cm (3 ¹⁹ / ₃₂ ")	±85.3cm (33 ¹⁹ / ₃₂ ")		
100" (254 cm)	203 cm (80")	152 cm (60")	6.1 m (20' 0")	9.1 m (30' 0")	-160.0 cm (-63")	7.6 cm (3")	±71.1cm (28")		
80" (203 cm)	163 cm (64")	122 cm (48")	4.9 m (16' 0")	7.3 m (24' 0")	-128.0 cm (-50 ¹³ / ₃₂ ")	6.1 cm (2 ¹³ / ₃₂ ")	±56.9cm (22 13/32")		
70" (178 cm)	70" (178 cm) 142 cm (56") 107 cm (42")		4.3 m (14' 0")	6.4 m (21' 0")	-112.0 cm (-44 3/32")	5.3 cm (2 ³ / ₃₂ ")	±49.8cm (19 19/32")		
60" (152 cm)	122 cm (48")	91 cm (36")	3.7 m (12' 0")	5.5 m (18' 0")	-96.0 cm (-37 ⁵¹ / ₆₄ ")	4.6 cm (1 51/64")	±42.7cm (16 51/64")		

χ: Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

- H1: Lower distance from the lens center to the bottom of the image (cm/in)
- H2: Upper distance from the lens center to the bottom of the image (cm/in)
- W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance [m/cm] L1 (m) = 0.06096XL2 (m) = 0.09144XH1 (cm) = -1.6002XH2 (cm) = 0.0762XW (cm) = $\pm 0.7112X$ [Feet/inches] L1 (ft) = 0.06096X / 0.3048L2 (ft) = 0.09144X / 0.3048H1 (in) = -1.6002X / 2.54H2 (in) = 0.0762X / 2.54W (in) = $\pm 0.7112X / 2.54$

16:9 Signal Input (Stretch Mode)

Pic	ture (Screen) s	ize	Projection	distance [L]	Distance from the bottom of	ne lens center to the image [H]	Distance from the lens center to the center of		
Diag. [X]	Width	Height	Minimum [L1] Maximum [L2]		Lower [H1]	Upper [H2]	the image [W]		
200" (508 cm)	443 cm (174")	249 cm (98")	13.3 m (43' 7")	19.9 m (65' 4")	-307.2 cm (-120 15/16")	58.1 cm (22 7/8")	±155.0cm (61 1/64")		
150" (381 cm)	332 cm (131")	187 cm (74")	10.0 m (32' 8")	14.9 m (49' 0")	-230.4 cm (-90 45/64")	43.6 cm (17 ⁵ / ₃₂ ")	±116.2cm (45 ³ /4")		
120" (305 cm)	266 cm (105")	149 cm (59")	8.0 m (26' 2")	12.0 m (39' 3")	-184.3 cm (-72 %16")	34.9 cm (13 47/64")	±93.0cm (36 39/64")		
100" (254 cm)	221 cm (87")	125 cm (49")	6.6 m (21' 9")	10.0 m (32' 8")	-153.6 cm (-60 15/32")	29.1 cm (11 7/16")	±77.5cm (30 1/2")		
80" (203 cm)	177 cm (70")	100 cm (39")	5.3 m (17' 5")	8.0 m (26' 2")	-122.9 cm (-48 3/8")	23.2 cm (9 ⁵ / ₃₂ ")	±62.0cm (24 ¹³ / ₃₂ ")		
60" (152 cm)	133 cm (52")	75 cm (29")	4.0 m (13' 1")	6.0 m (19' 7")	-92.1 cm (-36 %)32")	17.4 cm (6 55/64")	±46.5cm (18 19/64")		

χ: Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

 $\begin{array}{l} \mbox{Interval} \mbox{$



• Allow a margin of error in the value in the diagrams above.

Tele-zoom Lens (AN-P45EZ)

F2.5, f=62.1-97.8 mm

4:3 Signal Input (Normal Mode)

Pic	ture (Screen) si	ize	Projection	distance [L]	Distance from th the bottom of		Distance from the lens center to the center of		
Diag. [χ]	Width	Height	Minimum [L1] Maximum		Lower [H1]	Upper [H2]	the image [W]		
250" (635 cm)	508 cm (200")	381 cm (150")	22.9 m (75' 0")	35.6 m (116' 8")	-400.1 cm (-157 1/2")	19.1 cm (7 ¹ /2")	±177.8cm (70")		
200" (508 cm)	406 cm (160")	305 cm (120")	18.3 m (60' 0")	28.4 m (93' 4")	-320.0 cm (-126")	15.2 cm (6")	±142.2cm (56")		
150" (381 cm)	305 cm (120") 229 cm (90		13.7 m (45' 0")	21.3 m (70' 0")	-240.0 cm (-94 1/2")	11.4 cm (4 1/2")	±106.7cm (42")		
120" (305 cm)	244 cm (96")	183 cm (72")	11.0 m (36' 0")	17.1 m (56' 0")	-192.0 cm (-75 ¹⁹ / ₃₂ ")	9.1 cm (3 ¹⁹ / ₃₂ ")	±85.3cm (33 ¹⁹ / ₃₂ ")		
100" (254 cm)	203 cm (80")	152 cm (60")	9.1 m (30' 0")	14.2 m (46' 8")	-160.0 cm (-63")	7.6 cm (3")	±71.1cm (28")		
80" (203 cm)	163 cm (64")	122 cm (48")	7.3 m (24' 0")	11.4 m (37' 4")	-128.0 cm (-50 ¹³ / ₃₂ ")	6.1 cm (2 ¹³ / ₃₂ ")	±56.9cm (22 13/32")		
70" (178 cm)	70" (178 cm) 142 cm (56") 107 cm (4		6.4 m (21' 0")	10.0 m (32' 8")	-112.0 cm (-44 3/32")	5.3 cm (2 ³ / ₃₂ ")	±49.8cm (19 ¹⁹ / ₃₂ ")		
60" (152 cm)	122 cm (48")	91 cm (36")	5.5 m (18' 0")	8.5 m (28' 0")	-96.0 cm (-37 ⁵¹ / ₆₄ ")	4.6 cm (1 51/64")	±42.7cm (16 51/64")		

χ: Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance [m/cm] L1 (m) = 0.09144%L2 (m) = 0.14224%H1 (cm) = -1.6002%W (cm) = 0.0762%W (cm) = $\pm 0.7112\%$ [Feet/inches] L1 (ft) = 0.09144% / 0.3048L2 (ft) = 0.14224% / 0.3048H1 (in) = -1.6002% / 2.54H2 (in) = $\pm 0.7112\% / 2.54$

16:9 Signal Input (Stretch Mode)

Pic	ture (Screen) si	ize	Projection	distance [L]	Distance from the bottom of	ne lens center to the image [H]	Distance from the lens center to the center of
Diag. [X]	Width	Height	Minimum [L1] Maximum [L2]		Lower [H1]	Upper [H2]	the image [W]
200" (508 cm)	443 cm (174")	249 cm (98")	19.9 m (65' 4")	31.0 m (101' 8")	-307.2 cm (-120 15/16")	58.1 cm (22 7/8")	±155.0cm (61 1/64")
150" (381 cm)	332 cm (131")	187 cm (74")	14.9 m (49' 0")	23.2 m (76' 3")	-230.4 cm (-90 45/64")	43.6 cm (17 5/32")	±116.2cm (45 ³ /4")
120" (305 cm)	266 cm (105")	149 cm (59")	12.0 m (39' 3")	18.6 m (61' 0")	-184.3 cm (-72 %16")	34.9 cm (13 47/64")	±93.0cm (36 39/64")
100" (254 cm)	221 cm (87")	125 cm (49")	10.0 m (32' 8")	15.5 m (50' 10")	-153.6 cm (-60 15/32")	29.1 cm (11 7/16")	±77.5cm (30 1/2*)
80" (203 cm)	177 cm (70")	100 cm (39")	8.0 m (26' 2")	12.4 m (40' 8")	-122.9 cm (-48 3/8")	23.2 cm (9 5/32")	±62.0cm (24 13/32")
60" (152 cm)	(152 cm) 133 cm (52") 75 cm (29")		6.0 m (19' 7")	9.3 m (30' 6")	-92.1 cm (-36 %)32")	17.4 cm (6 55/64")	±46.5cm (18 19/64")

χ: Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

 $\begin{array}{l} \textbf{[m/cm]} \\ \textbf{L1} (m) = 0.09962 \\ \textbf{L2} (m) = 0.15497 \\ \textbf{M} \\ \textbf{L2} (m) = -1.53583 \\ \textbf{H2} (cm) = -1.53583 \\ \textbf{H2} (cm) = 0.29056 \\ \textbf{W} (cm) = \pm 0.77483 \\ \textbf{W} (cm) = \pm 0.77483 \\ \textbf{M} \\ \textbf{L2} (ft) = 0.09962 \\ \textbf{M} \\ \textbf{L2} (ft) = 0.15497 \\ \textbf{M} \\ \textbf{O} \\ \textbf{M} \\ \textbf{M} \\ \textbf{I} (in) = -1.53583 \\ \textbf{M} \\ \textbf{Z} \\ \textbf{S} \\ \textbf{M} \\ \textbf{I} (in) = -0.29056 \\ \textbf{Z} \\ \textbf{Z} \\ \textbf{S} \\ \textbf{M} \\ \textbf{I} (in) = \pm 0.77483 \\ \textbf{Z} \\ \textbf{Z} \\ \textbf{S} \\ \textbf{M} \\ \textbf{I} \\$

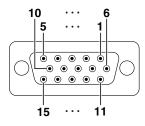
Note 🚫

• Allow a margin of error in the value in the diagrams above.

Connecting Pin Assignments

COMPUTER/COMPONENT input and COMPUTER/COMPONENT output Terminals: mini D-sub 15

pin female connector

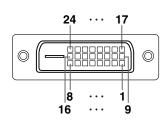


RGB Input

- 1.
- Video input (red) Video input (green/sync on green) Video input (blue) 2. 3.

 - 4. Not connected
- 5. Not connected 6. Earth (red)
- 6. 7.
- Earth (green/sync on green)
 Earth (blue)
- 9. Not connected
- 10. GND
- 11. Not connected
- 12. Bi-directional data
- Horizontal sync signal: TTL level 13.
- Vertical sync signal: TTL level 14.
- 15. Data clock

DVI-D Terminal: 24 pin connector



6 DDC Clock 22 T.M.D.S. Clock+ 7 DDC Data 23 T.M.D.S. Clock+ 8 Not connected 24 T.M.D.S. Clock+ 9 T.M.D.S. Data 1+ 11 T.M.D.S. Data 1+ 10 T.M.D.S. Data 1 Shield 12 Not connected 13 Not connected 14 +5 V Power 15 Ground 16 Hot Plug Detect	8 9 10 11 12 13 14 15	Not connected T.M.D.S. Data 1– T.M.D.S. Data 1+ T.M.D.S. Data 1 Shield Not connected Not connected +5 V Power Ground			1
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HDMI Terminal

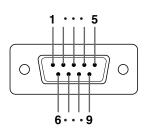
18	2	Pin No.	Name	Pin No.	Name	Pin No.	Name
		1 2 3	T.M.D.S data 2+ T.M.D.S data 2 shield T.M.D.S data 2–	8 9 10	T.M.D.S data 0 shield T.M.D.S data 0– T.M.D.S clock+	14 15 16	Reserved SCL SDA
		4 5 6 7	T.M.D.S data 1+ T.M.D.S data 1+ T.M.D.S data 1 shield T.M.D.S data 1– T.M.D.S data 0+	11 12 13	T.M.D.S clock shield T.M.D.S clock - T.M.D.S clock- CEC	17 18 19	DDC/CEC ground +5V power Hot plug detection
19	1						

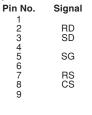
- 1. Р_R (С_R) 2. Ү 3. Р_В (С_В)
- 4. Not connected
 5. Not connected
 6. Earth (P_R)
 7. Earth (Y)
 8. Earth (P_B)

- 9. Not connected
- 10. Not connected
- 11. Not connected
- 12. Not connected
- 13. Not connected 14. Not connected
- 15. Not connected

Connecting Pin Assignments

RS-232C Terminal: D-sub 9 pin male connector





 Signal
 Name

 RD
 Receive Data

 SD
 Send Data

 SG
 Signal Ground

 RS
 Request to Send

 CS
 Clear to Send

I/O

Input Output

Reference Not connected Connected to internal circuit Connected to internal circuit Not connected Connected to internal circuit Not connected Connected to CS in internal circuit
Connected to CS in internal circuit Connected to RS in internal circuit Not connected

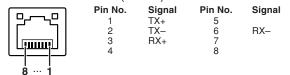
1	Pin No.	Signal	Pin No.	Signal
	1	CD	1	CD
	2	RD	2	RD
	3	SD	3	SD
	4	ER —	4	ER
	5	SG	5	SG
	6		6	DR
	/	RS	/	RS
•• 6	8	CI	8	CS CI

Note

• Depending on the controlling device used, it may be necessary to connect Pin 4 and Pin 6 on the controlling device (e.g. computer).

Projector Pin No.	Computer Pin No.
4	4
5 ——— 6	

LAN Terminal: LAN (RJ-45)



Wired Remote Control Terminal Specifications

Specifications of wired remote control input

- ø3.5 mm minijack
- External: GND
- Internal: +3.3V

Function and transmission codes

CONTROL	S	YST	EM (COD	Е			D	ATA	COD	Ε			JUDGE CO	
ITEM	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
STANDBY	1	0	1	1	0	0	1	1	0	1	0	0	1	1	0
ON	1	0	1	1	0	0	1	1	0	1	0	1	0	1	0
ZOOM +	1	0	1	1	0	0	0	0	1	0	1	0	1	1	0
ZOOM -	1	0	1	1	0	1	0	0	1	0	1	0	1	1	0
FOCUS +	1	0	1	1	0	0	0	1	0	0	1	1	1	1	0
FOCUS -	1	0	1	1	0	1	0	1	0	0	1	1	1	1	0
H&V LENS SHIFT	1	0	1	1	0	0	0	1	1	0	0	0	1	1	0
KEYSTONE	1	0	1	1	0	1	1	0	1	0	0	0	1	1	0
MENU	1	0	1	1	0	0	0	1	0	0	0	1	1	1	0
▲	1	0	1	1	0	0	0	1	1	1	0	0	1	1	0
•	1	0	1	1	0	0	0	0	0	1	0	1	0	1	0
•	1	0	1	1	0	1	1	1	1	0	0	1	0	1	0
•	1	0	1	1	0	1	0	1	1	1	0	0	1	1	0
ENTER	1	0	1	1	0	1	1	1	0	1	0	1	0	1	0
UNDO	1	0	1	1	0	1	0	0	1	1	0	1	0	1	0
MAGNIFY +	1	0	1	1	0	1	0	1	1	0	1	1	0	1	0
MAGNIFY -	1	0	1	1	0	1	0	1	1	0	1	0	1	1	0

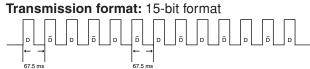
CONTROL	s	SYST	EM	COD	E			D	ATA	COE	Ε				EMENT DE
ITEM	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
FREEZE	1	0	1	1	0	1	0	1	1	0	0	0	1	1	0
VOL +	1	0	1	1	0	0	0	1	0	1	0	0	0	1	0
VOL -	1	0	1	1	0	1	0	1	0	1	0	0	0	1	0
BREAK TIMER	1	0	1	1	0	0	0	1	0	1	1	0	1	1	0
SHUTTER OPEN	1	0	1	1	0	0	1	0	0	1	0	0	1	1	0
SHUTTER CLOSE	1	0	1	1	0	1	1	0	0	1	0	0	1	1	0
MUTE	1	0	1	1	0	1	1	1	0	1	0	0	0	1	0
AUTO SYNC	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0
PICTURE MODE	1	0	1	1	0	1	0	0	1	1	1	0	0	1	0
RESIZE	1	0	1	1	0	0	1	1	1	1	0	1	0	1	0
COMPUTER1	1	0	1	1	0	1	0	1	0	1	1	0	0	1	0
COMPUTER2	1	0	1	1	0	0	1	1	0	1	1	0	0	1	0
DVI-D	1	0	1	1	0	1	0	1	0	1	1	0	1	1	0
HDMI	1	0	1	1	0	1	0	0	0	1	0	0	1	1	0
VIDEO	1	0	1	1	0	0	1	0	0	1	1	0	0	1	0
S-VIDEO	1	0	1	1	0	1	1	0	0	1	1	0	0	1	0

Wired remote control function code

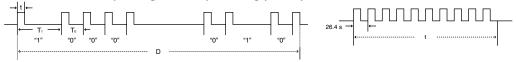
• System codes C1 to C5 are fixed at "10110".

• Codes C14 and C15 are reverse confirmation bits, with "10" indicating "Front" and "01" indicating "Rear".

Sharp remote control signal format



Wave form of output signal: Output using pulse position modulation



- t = 264 µs
- Pulse carrier frequency = 455/12 kHz
 Duty ratio = 1:1
- T₀ = 1.05 ms
 T₁ = 2.10 ms

s

Transmission control code

15 bit

10	DIL													
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
	Syst	tem Ade	dress			Fur	nction M	key Dat	a Bit			ata nsion	Mask	Data Deter- mination
	D to D C	Commo	n Data	Bit	e				Revers	se in D				

Example of Reverse D to \overline{D}



Computer control

A computer can be used to control the projector by connecting an RS-232C serial control cable (cross type, commercially available) to the projector. (See page 27 of the projector's operation manual for connection.)

Communication conditions

Set the serial port settings of the computer to match that of the table. Signal format: Conforms to RS-232C standard. Baud rate*: 9,600 bps / 38,400 bps / 115,200 bps Data length: 8 bits

Parity bit: None Stop bit: 1 bit Flow control: None

*Set the projector's baud rate to the same rate as used by the computer.

Basic format

Commands from the computer are sent in the following order: command, parameter, and return code, After the projector processes the command from the computer, it sends a response code to the computer.

Command for	rmat											
	C1	C2	C3	C4	P1	P2	P3	P4				Return code (0DH)
Response co	de fori		Comm	hand 4	4-digi	t	Pa	arame	ter 4-di	git		
	mal res		Э					Pro	blem res	sponse	e (com	nmunication error or incorrect command)
	0	K	F	Returr	n cod	e (0D	H)]	Е	R	R	Return code (0DH)
Info												

- . When you have more than one command to give to the projector, send each of them only after the response code for the previous one is received.
- "POWR????" "TABN___1" "TLPS___1" "TLPS___2" "TPOW ___1" "TLPN ___1" "TLTT ___1" "TLTT ____ 2" "TLTM ____ 1" "TLTM ____ 2" "TLTL ____ 1" "TLTL ___ 2" "TNAM ____ 1" "MNRD ____ 1" "SNRD _ _ 1" "PJN0 _ _ 1"

-When the projector receives the special commands shown above :

- * The on-screen display will not disappear.
- * The "Auto Power Off" timer will not be reset.
- -The special commands are available for applications that require continuous polling.

(Do not repeatedly or periodically send any commands other than these special commands in STANDBY mode as it will cause problems.)

Note 📎

- When controlling the projector using the RS-232C commands, you cannot confirm the projector setting values from the computer. To confirm each setting value, send the display command for each menu (e.g. RARE 0), and then refer to the on-screen display. When using the setting/adjustment commands other than the menu display commands, the settings/adjustments are executed without the on-screen display.
- If an underbar () appears in the parameter column, enter a space.
- If an asterisk (*) appears in the parameter column, enter a value in the range indicated in brackets under Control Contents.

PJLink[™] Compliant:

This product conforms with the PJLink standard Class 1 and all Class 1 commands are implemented. This product confirms with the PJLink standard specification version 1.00.

For additional information, visit "http://pjlink.jbmia.or.jp/english/".

Commands

Example: When turning on the projector, make the following setting.

		Compute	er							Projector
	P O V	W R _	_		_		1	L		
				_	_		-	-		RETURN
	CONTROL CONTR	ENTS	0	юм	MAN	١D	PAR	AME	TER	Power ON Standby mode (or 40-second startup time)
Power	On Off		P		W	R R			- 1 0	
Projector Condition	Status		T	A		R N		? ?	2 ?	1 0 0: Normal, 1: Temp High 0: Normal, 1: Temp High 8: Lamp Life 5% or less 2: Fan Error, 4: Cover Open 16: Lamp Burn-out 8: Lamp Life 5% or less 32: Lamp Ignition Failure 16: Lamp Burn-out 32: Lamp Ignition Failure 32: Lamp Aportal High
Lamp	Lamp 1 Status		Т			S			- 1	
	Lamp 2 Status Lamp Power Stat	hus		P		S W			2	
	Quantity		Τ			N	_		1	
	Lamp 1 Usage Ti		Т	L		Т			. 1	0 - 9999 (Integer)
	Lamp 2 Usage Ti		Т						- 2	
	Lamp 1 Usage Ti Lamp 2 Usage Ti		T			M		- -	_ 1	
	Lamp 1 Life(Perc		<u>Т</u>		T	M	+	+	2	
	Lamp 2 Life(Perc		T				_	_	2	
	Lamp 1 Lamp Tir		L			Е	0 (0 0) 1	ERR OK or ERR
Name	Lamp 2 Lamp Tin		L				0 (0 0) 2	
Name	Model Name Che Model Name Che		M	N		M D	-		1	XGP610X XG-P610X
	Serial No. Check			N		D			1	
	Projector Name S		P				*	* *	*	OK or ERR
	(First 4 character									
	Projector Name S		P	J	Ν	2	*	* *	1*	OK or ERR
	(Middle 4 charact Projector Name S			J	N	3	* .	* *		OK or EBB
	(Last 4 character			1		3				
	Projector Name C	Check	P						. 1	
Input Change	COMPUTER1		1				_		- 1	
	COMPUTER2 DVI			R		B			2	
	HDMI				G	B			4	OK OF ERR ERR
	VIDEO		i			D			. 1	OK or ERR ERR
	S-VIDEO		1						. 2	
	Input RGB Check							? ?		
	Input Video Chec Input Mode Chec					D	? '		???	
	Input Check	A A A A A A A A A A A A A A A A A A A	1				? '			
Lens Focus	-255 - +255		L	N	F	0	*	* *	*	OK or ERR ERR
Lens Zoom	-255 - +255		L	N	Ζ	0		* *		OK or ERR ERR
Vertical Lens Shift	-800 - +800		L			Н	*	* *	*	OK or ERR ERR
Horizontal Lens Shift	-800 - +800 -800 - +800		L	1.1		DR	*	* *	_	OK or ERR ERR OK or ERR ERR
Lens Shift Center	1000						_		- 1	OK OF ERR ERR
Lens Shutter	Close		L		S	T			. 1	OK or ERR ERR
Vadiaal Kasataa	Open			N		Т			0	
Vertical Keystone	-80 - +80 -80 - +80		K			S V	-	* *	*	OK or ERR ERR OK or ERR ERR
Horizontal Keystone	-60 - +60		K				-	* *	_	OK OF ERR ERR
Image Resizing	-30 - +30		1				_	* *	*	OK or ERR ERR
Volume	Volume(0 - 60)		V			Α		. *		OK or ERR ERR
Mute	Volume up/down	(-10 – +10)	V				-	* *	_	OK or ERR ERR OK or ERR ERR
WILLE	On Off			U		E		- -	1	
Freeze	On			R		Z	_		1	
	Off		F	R	Е	Ζ		- -	- 0	OK or ERR ERR
Auto Sync	Start COMPUTER1	Normal	A			S			1	
Resize	COMPUTER1	Normal Stretch	R		S S	R R			1	OK or ERR ERR OK or ERR ERR
		Dot By Dot (Computer)/ Border (Video)		A	S	R		- -	3	
		Smart Stretch	R	A	s	R			4	OK or ERR ERR
		Full	R				_		5	
		Border (Computer)	R	A	S	R	_		6	OK or ERR ERR
	1	Area Zoom	R		S	R	_1	_11	0	OK or ERR ERR
		V-Stretch	R		-	R			1	

											RETURN	_	
	CONTROL CONT	ENTS	c	ом	MAI	ND	PA	RAN	METE	ER	Power ON	Standby mode (or 40-second startup time)	
Resize	COMPUTER2	Normal	R	В	s			_		1	OK or ERR	ERR	
		Stretch	R	В	S	R				2	OK or ERR	ERR	
		Dot By Dot (Computer)/ Border (Video)	R	В	s	R	-	-	-	3	OK or ERR	ERR	
		Smart Stretch	R	В	s	R		_		4	OK or ERR	ERR	
		Full	R	В	s			_		5	OK or ERR	ERR	
		Border (Computer)	R	В	S			_		6	OK or ERR	ERR	
		Area Zoom	R	В						0	OK or ERR	ERR	
		V-Stretch	R	B	S			-		1	OK or ERR	ERR	
	DVI	Normal Stretch	R	C	S			-		1	OK or ERR OK or ERR	ERR	
		Dot By Dot (Computer)/	R	C C	S S				*****	2	OK of ERR	ERR	
		Border (Video)		10	3		-	-	-	3		Lini	
		Smart Stretch	R	С	S	R	-	_		4	OK or ERR	ERR	
		Full	R	С	S	R		_		5	OK or ERR	ERR	
		Border (Computer)	R	С	S			_		6	OK or ERR	ERR	
		Area Zoom	R	С	s				++	0	OK or ERR	ERR	
	UDM	V-Stretch	R	C	S			-	<u> </u>	1	OK or ERR	ERR	
	HDMI	Normal Stretch	R	D	S S					1	OK or ERR OK or ERR	ERR	
		Dot By Dot (Computer)/	R	D	S					2	OK of ERR	ERR	
		Border (Video)		10	0	1.,	-	-	-	3		2	
		Smart Stretch	R	D	s	R	1_	1_1	1_1	4	OK or ERR	ERR	
		Full	R	D	S	R		-	-	5	OK or ERR	ERR	
		Border (Computer)	R	D	S	R		-		6	OK or ERR	ERR	
		Area Zoom	R	D	S					0	OK or ERR	ERR	
	1/1050	V-Stretch	R	D	S			-		1	OK or ERR	ERR	
	VIDEO	Normal Stretch	R	A	S					1	OK or ERR OK or ERR	ERR	
		Border	R	A	S					2	OK or ERR	ERR	
		Smart Stretch	R	A	S					3	OK of ERR	ERR	
		Area Zoom	R	A	S					0	OK or ERR	ERR	
		V-Stretch	R	A	S	V		_		1	OK or ERR	ERR	
	S-VIDEO	Normal	R	В	S		-	-	-	1	OK or ERR	ERR	
		Stretch	R	В	S			_	_	2	OK or ERR	ERR	
		Border	R	В	s			_		3	OK or ERR	ERR	
		Smart Stretch	R	B	S					4	OK or ERR	ERR	
		Area Zoom	R	В	S	V				0	OK or ERR OK or ERR	ERR	
COMPUTER1 input	Picture Mode	V-Stretch Standard	R	B	S P			-	1	1	OK of ERR	ERR	
	Ficture would	Presentation	R	A	P					1	OK or ERR	ERR	
		Movie	R	A	P	S		_		2	OK or ERR	ERR	
		Custom	R	A	Р			_		3	OK or ERR	ERR	
	Contrast	-30 - +30	R	A	Ρ	1	_	*	*	*	OK or ERR	ERR	
	Bright	-30 - +30	R	A	В			*	*	*	OK or ERR	ERR	
	Color	-30 - +30	R	A	С		-	*	*	*	OK or ERR	ERR	
	Tint	-30 - +30	R	A			-	*	*	*	OK or ERR	ERR	
	Red Green	-30 - +30 -30 - +30	R	A				*		*	OK or ERR OK or ERR	ERR	
	Blue	-30 - +30	R	Â				*	*	*	OK of ERR	ERR	
	Sharp	-30 - +30	R	A	S			*	*	*	OK or ERR	ERR	
	CLR Temp *4		R	A	С			*	*	*	OK or ERR	ERR	
	Progressive	2D Progressive	R	A	1	Р	_	_	_	0	OK or ERR	ERR	
		3D Progressive	R	A	1	P				1	OK or ERR	ERR	
		Film	R	A	1			-		2	OK or ERR	ERR	
	DNR	Off	R	A	N					0	OK or ERR	ERR	
		Level 1 Level 2	R	A	N N					1	OK or ERR OK or ERR	ERR	
		Level 2 Level 3	R	A	N					3	OK or ERR	ERR	
	Adjustment Rese		R	A	R					1	OK of ERR	ERR	
	Signal Type	Auto	1	A	S		1			0	OK or ERR	ERR	
		RGB	T.	A	S	1]_	_		1	OK or ERR	ERR	
		Component	1	A	S		_	_		2	OK or ERR	ERR	
A. 181	Display (Status d		R	-		-		-		0	OK or ERR	ERR	
COMPUTER2 input	Picture Mode	Standard	R	B	P	S			1		OK or ERR	ERR	
		Presentation	R	B		S S				1	OK or ERR OK or ERR	ERR	
		Movie Custom	R							2	OK or ERR OK or ERR	ERR	
	Contrast	-30 - +30	R					*	*	*	OK of ERR	ERR	
	Bright	-30 - +30	R			R		*	*	*	OK or ERR	ERR	
	Color	-30 - +30	R	В	С	0		*	*	*	OK or ERR	ERR	
	Tint	-30 - +30	R	В	Т	1	_	*	*	*	OK or ERR	ERR	
	Red	-30 - +30	R	В	R	D		*	*	*	OK or ERR	ERR	
	Green	-30 - +30	R			N		*	*	*	OK or ERR	ERR	
	Blue	-30 - +30	R			E		*	*	*	OK or ERR	ERR	
	Sharp	-30 - +30	R			H		*		*	OK or ERR	ERR	
	CLR Temp *4	2D Prograssing	R					Ĥ	1	*	OK or ERR OK or ERR	ERR ERR	
	Progressive	2D Progressive 3D Progressive	R	B	++	P				0	OK or ERR	ERR	
		Film	R							1	OK or ERR	ERR	
	DNR	Off	R					-		2	OK of ERR	ERR	
	l	Level 1	R							1	OK or ERR	ERR	
		Level 2	R	В				121		2	OK or ERR	ERR	
		Level 3	R	В	N			-		3	OK or ERR	ERR	
	Adjustment Rese		R					_	_1	1	OK or ERR	ERR	
	Signal Type	Auto		В	S	1	_	_	_	0	OK or ERR	ERR	
		RGB	1	В	S	1		_	-1	1	OK or ERR	ERR	
		Component	1	В		1		-		2	OK or ERR	ERR	
	Display (Status d	lisplay)	R	В	R	E	1-1	_		0	OK or ERR	ERR	

											RETU	
	CONTROL CONT	ENTS	C	ON	IMA	ND) P	ARA	ME	TER	Power ON	Standby mode (or 40-second startup time
DVI input	Picture Mode	Standard	R	С	Р	1	3 _	Ι	1	0	OK or ERR	ERR
1		Presentation	R					-	1		OK or ERR	ERR
		Movie	R					-	1	2	OK or ERR	ERR
		Custom	R					-	1	3	OK or ERR	ERR
	Contrast	-30 - +30	R	С	P		-	. *	*	*	OK or ERR	ERR
	Bright	-30 - +30	R	С	В	F	3 _	. *	*	*	OK or ERR	ERR
	Color	-30 - +30	R	С	C	C) _	. *	*	*	OK or ERR	ERR
	Tint	-30 - +30	R	С	T		- 1	*	*	*	OK or ERR	ERR
	Red	-30 - +30	R	С	R) _	*	*	*	OK or ERR	ERR
	Green	-30 - +30	R	С	G	i N	1 _	. *	*	*	OK or ERR	ERR
	Blue	-30 - +30	R	С	B	E		*	*	*	OK or ERR	ERR
	Sharp	-30 - +30	R	С	S	F	1 _	. *	*	*	OK or ERR	ERR
	CLR Temp *4		R	С	С	1	Γ _	*	*	*	OK or ERR	ERR
	Progressive	2D Progressive	R	C	1	F	-	_	_	0	OK or ERR	ERR
		3D Progressive	R	C	1	F	> _	_	_	- 1	OK or ERR	ERR
		Film	R	C	1	F	> _	-	_	2	OK or ERR	ERR
	DNR	Off	R	С	N	F	٦	_	_	. 0	OK or ERR	ERR
		Level 1	R	C	N	F	R _	1_	_	1	OK or ERR	ERR
		Level 2	R					_	_	2	OK or ERR	ERR
		Level 3	R					1_	1_	3	OK or ERR	ERR
	Adjustment Reset		R					1-	1	- 1	OK or ERR	ERR
	Signal Type	D. PC RGB	1	C				1	1_	3	OK or ERR	ERR
		D. PC Component	ΤÌ	C				t	t	4	OK or ERR	ERR
		D. Video RGB	T T	C				T	1	5	OK or ERR	ERR
		D. Video Component	ΤŤ	C			- †=	T	1	6	OK or ERR	ERR
	Dynamic Range	Auto	H				5	1	1	0	OK or ERR	ERR
		Standard	н							1	OK or ERR	ERR
		Enhanced	Н					-		2	OK or ERR	ERR
	Color Space	Auto	Н					+-	+-		OK or ERR	ERR
	Color Space	ITU601					:-	·	·	0		
		ITU709	H					-	·	1	OK or ERR	ERR
	Display (Otation 1		분					+-	+-	2	OK or ERR	ERR
DMLing.t	Display (Status di		R					+-	+-	0	OK or ERR	ERR
IDMI input	Picture Mode	Standard	R							0	OK or ERR	ERR
		Presentation	R				ż.		1		OK or ERR	ERR
		Movie	R						. 1	2	OK or ERR	ERR
		Custom	R				<u> </u>			3	OK or ERR	ERR
	Contrast	-30 - +30	R					*	*		OK or ERR	ERR
	Bright	-30 - +30	R	D			۲ _	*	*		OK or ERR	ERR
	Color	-30 - +30	R	D	C			*			OK or ERR	ERR
	Tint	-30 - +30	R	D	T			*	*		OK or ERR	ERR
	Red	-30 - +30	R	D	R) _	*	*	*	OK or ERR	ERR
	Green	-30 - +30	R	D	G	i N	_ ۱	*	*	*	OK or ERR	ERR
	Blue	-30 - +30	R	D	В			*	*	*	OK or ERR	ERR
	Sharp	-30 - +30	R			ŀ		*	*	*	OK or ERR	ERR
	CLR Temp *4		R					*	*	*	OK or ERR	ERR
	Progressive	2D Progressive	R							0	OK or ERR	ERR
	Ŭ	3D Progressive	R					1	1	1	OK or ERR	ERR
		Film	R					-		2	OK or ERR	ERR
	DNR	Off	R					1	1	0	OK or ERR	ERR
		Level 1	R							1	OK or ERR	ERR
		Level 2	R					-		2	OK or ERR	ERR
		Level 3	R					-		3	OK or ERR	ERR
	Adjustment Reset		R					-	-	1	OK or ERR	ERR
	Signal Type	D. Video Auto	1	-			_	+-	-		OK or ERR	ERR
	loighai type	D. Video RGB		D					14	2 0		
		D. Video Component	++	D						5	OK or ERR	ERR
		D. PC RGB	++	D				-		6	OK or ERR	ERR
			- <u> -</u> !-	D						3	OK or ERR	ERR
	Duran 1 Day	D. PC Component	1	D				+-	+-	- 4	OK or ERR	ERR
	Dynamic Range	Auto	H					-		0	OK or ERR	ERR
		Standard	H					-	-	- 1	OK or ERR	ERR
		Enhanced	н					-	4-	2	OK or ERR	ERR
	Color Space	Auto	H							0	OK or ERR	ERR
		ITU601	H							1	OK or ERR	ERR
		ITU709	Н	Μ	D	0	>	-	4-	2	OK or ERR	ERR
	Display (Status di				R	E		F	F	0	OK or ERR	ERR
/IDEO input	Picture Mode	Standard	V		P	5	3		1	0	OK or ERR	ERR
		Presentation	V			5	s [_	[_		1	OK or ERR	ERR
		Movie	V		P	15	s _	1_	1		OK or ERR	ERR
		Custom	V			15	s 1_	1		3	OK or ERR	ERR
	Contrast	-30 - +30	V		P			*	*		OK or ERR	ERR
		-30 - +30	V		В			*	*	*	OK or ERR	ERR
	Bright				1c			*	*		OK or ERR	ERR
	Bright Color	-30 - +30			ŤŤ			*	*		OK or ERR	ERR
	Color				1.1			*			OK or ERR	ERR
	Color Tint	-30 - +30	V		D		× I –			*	OK or ERR	ERR
	Color Tint Red	-30 - +30 -30 - +30	V	A	R		a l	*	*			
	Color Tint Red Green	-30 - +30 -30 - +30 -30 - +30	V V V	A	G	i N	_ ۱	*			OK or EPP	
	Color Tint Red Green Blue	-30 - +30 -30 - +30 -30 - +30 -30 - +30	V V V V	A A A	G	i N	۱ _ -	*	*	*	OK or ERR	ERR
	Color Tint Red Green Blue Sharp	-30 - +30 -30 - +30 -30 - +30	V V V V	A A A	G B S	i N	\ _ = _ + _	*	*	*	OK or ERR	ERR ERR
	Color Tint Red Green Blue Sharp CLR Temp *4	-30 - +30 -30 - +30 -30 - +30 -30 - +30 -30 - +30 -30 - +30	V V V V V	A A A A	G B S C	i N E F	N	*	*	* *	OK or ERR OK or ERR	ERR ERR ERR
	Color Tint Red Green Blue Sharp	-30 - +30 -30 - +30 -30 - +30 -30 - +30 -30 - +30 -30 - +30	V V V V V	A A A A A	G B S C	i N E F	N _ E _ H _ D _	*	*	*	OK or ERR OK or ERR OK or ERR	ERR ERR ERR ERR
	Color Tint Red Green Blue Sharp CLR Temp *4	-30 - +30 -30 - +30 -30 - +30 -30 - +30 -30 - +30 -30 - +30 2D Progressive 3D Progressive	V V V V V V	A A A A A	G B S C I	i N E F		*	*	* *	OK or ERR OK or ERR OK or ERR OK or ERR	ERR ERR ERR ERR ERR
	Color Tint Red Green Blue Sharp CLR Temp *4 Progressive	-30 - +30 -30 - +30 -30 - +30 -30 - +30 -30 - +30 -30 - +30 2D Progressive 3D Progressive Film	V V V V V V V	A A A A A A A	G B C I I	i N E F F		*	*	* * 0 1	OK or ERR OK or ERR OK or ERR OK or ERR OK or ERR	ERR ERR ERR ERR ERR ERR ERR
	Color Tint Red Green Blue Sharp CLR Temp *4	-30 - +30 -30 - Forgressive Film Off		A A A A A A A	G B C I I N	i N E F F F		*	*	* *	OK or ERR OK or ERR OK or ERR OK or ERR OK or ERR OK or ERR	ERR ERR ERR ERR ERR
	Color Tint Red Green Blue Sharp CLR Temp *4 Progressive	-30 - +30 -30 - H0 -30 - H0	V V V V V V V	A A A A A A A	G B C I I N	i N E F F		*	*	* * 0 1	OK or ERR OK or ERR OK or ERR OK or ERR OK or ERR OK or ERR OK or ERR	ERR ERR ERR ERR ERR ERR ERR
	Color Tint Red Green Blue Sharp CLR Temp *4 Progressive	-30 - +30 -30 - Forgressive Film Off		A A A A A A A	G B C I I N			*	*	* * - 0 - 1 - 2 - 0	OK or ERR OK or ERR OK or ERR OK or ERR OK or ERR OK or ERR	ERR ERR ERR ERR ERR ERR ERR ERR
	Color Tint Red Green Blue Sharp CLR Temp *4 Progressive	-30 - +30 -30 - H0 -30 - H0		A A A A A A A A A A	G B C I I N N N	i N E F F F F F F F		*	*	- 0 - 1 - 2 - 0	OK or ERR OK or ERR OK or ERR OK or ERR OK or ERR OK or ERR OK or ERR	ERR ERR ERR ERR ERR ERR ERR ERR ERR
	Color Tint Red Green Blue Sharp CLR Temp *4 Progressive	-30 - +30 -30 - +20 -30 - +20 -40 - +20	V V V V V V V V V V V V V V V	A A A A A A A A A A A A	G B C I I N N N N			*	*	* * 0 - 1 - 2 - 0 - 1 - 2 - 1 - 2	OK or ERR OK or ERR	ERR ERR ERR ERR ERR ERR ERR ERR ERR ERR

										RETURN			
	CONTROL CONT	ENTS	C	омі	MAN	ID	PAR	AME	TER	Power ON	Standby mode (or 40-second startup tim		
S-VIDEO input	Picture Mode	Standard	V	В	Р	S			0	OK or ERR	ERR		
		Presentation	V	В	Ρ	S			1	OK or ERR	ERR		
		Movie	V	В	P	S			2	OK or ERR	ERR		
		Custom	V	В	Ρ	S			3	OK or ERR	ERR		
	Contrast	-30 - +30	V	B	P	1	-Ľ	• •		OK or ERR	ERR		
	Bright	-30 - +30	V	B	В		= ;			OK or ERR OK or ERR	ERR		
	Color Tint	-30 - +30 -30 - +30	V		C T	0	-		*	OK or ERR	ERR		
	Red	-30 - +30	V		R	D	=		*	OK of ERR	ERR		
	Green	-30 - +30	V		G		-	• •	*	OK or ERR	ERR		
	Blue	-30 - +30	V	B			_	• •		OK or ERR	ERR		
	Sharp	-30 - +30	V	В	S	н	-	• •	*	OK or ERR	ERR		
	CLR Temp *4		v	В	C	Т	_	• •	*	OK or ERR	ERR		
	Progressive	2D Progressive	V	B	1	P	_		. 0	OK or ERR	ERR		
		3D Progressive	V	В	I	Р	_1_		. 1	OK or ERR	ERR		
		Film	V	В	I	P	_ -		2	OK or ERR	ERR		
	DNR	Off	V	В	Ν	R		- -	0	OK or ERR	ERR		
		Level 1	V	В	Ν	R	_ [-	- -	1	OK or ERR	ERR		
		Level 2	V	В	Ν	R		- -	2	OK or ERR	ERR		
		Level 3	V	В	Ν	R	_ -	- -	. 3	OK or ERR	ERR		
	Adjustment Rese		V	В	R	E	_ -	- -	. 1	OK or ERR	ERR		
	Display (Status of		V		R	Е	- -	- -	. 0	OK or ERR	ERR		
C.M.S.	COMPUTER1	Standard	C	S	R	A	- -		0	OK or ERR	ERR		
Adjustment		sRGB	C	S	R	A			1	OK or ERR	ERR		
		Custom1	C	S	R	A			1	OK or ERR	ERR		
		Custom2	C	S	R	A			2	OK or ERR	ERR		
	COMPUTER2	Custom3	C	S	R	A			3	OK or ERR OK or ERR	ERR		
	CONFUTER2	Standard sRGB	C	S S	R R	B B	-+-		0	OK or ERR	ERR		
		Custom1	C	S	R	В			1	OK or ERR	ERR		
		Custom2	C	S	R	B	-+-		2	OK of ERR	ERR		
		Custom3	C	s	R	B	-+-		3	OK or ERR	ERR		
	DVI	Standard	C	s	R	C			0	OK or ERR	ERR		
		sRGB	C	S	R	C	_	_ 0		OK or ERR	ERR		
		Custom1	C	s	R	C			1	OK or ERR	ERR		
		Custom2	C	S	R	C	_		2	OK or ERR	ERR		
		Custom3	C	S	R	C	_		3	OK or ERR	ERR		
	HDMI	Standard	C	S	R	D			0	OK or ERR	ERR		
		sRGB	C	S	R	D			1	OK or ERR	ERR		
		Custom1	C	S	R	D	_ -		1	OK or ERR	ERR		
		Custom2	C	S	R	D	_ [-	_ 1	2	OK or ERR	ERR		
		Custom3	C	S	R	D		- 1	3	OK or ERR	ERR		
	VIDEO	Standard	С	S	V	Α	_ -		0	OK or ERR	ERR		
		Custom1	C	S	V	A	_ [-	_ 1	1	OK or ERR	ERR		
		Custom2	С	S	V	A	_] -	_ 1	2	OK or ERR	ERR		
		Custom3	С	S	V	Α			3	OK or ERR	ERR		
	S-VIDEO	Standard	C	S	V	В			0	OK or ERR	ERR		
		Custom1	C	S	V	в			1	OK or ERR	ERR		
		Custom2	С	S	۷	В	- -		2	OK or ERR	ERR		
	-	Custom3	С	S	V	В		- 1	3	OK or ERR	ERR		
	Target	Red	C	M	Т	G	- -		1	OK or ERR	ERR		
		Yellow	C	M	T	G	- -	-	2	OK or ERR	ERR		
		Green	C	M	T	G			3	OK or ERR OK or ERR	ERR ERR		
		Cyan Blue	C	M	T T	G G			4	OK or ERR	ERR		
		Magenta	C	M	Ť	G			5	OK or ERR	ERR		
	Lightness	-30 - +30	C		S	L				OK of ERR	ERR		
	Chroma	-30 - +30	C		S	C	_	• •		OK or ERR	ERR		
	Hue	-30 - +30	C				_	• *	*	OK of ERR	ERR		
	Reset (This Col		C	M	R	E	_		1	OK or ERR	ERR		
	Reset (All Color		C	M			_1	-1-	2	OK or ERR	ERR		
Clock	-150 - +150		Ĩ	N	С	L	* *	* *	*	OK or ERR	ERR		
Phase	-30 - +30		Т	Ν	Ρ	н	_	• *		OK or ERR	ERR		
H-position	-150 - +150		1		Н		* *	* *	*	OK or ERR	ERR		
V-position	-60 - +60		1	Α	V		-['	1	*	OK or ERR	ERR		
Fine Sync Adjustmen			1	A	R				. 1	OK or ERR	ERR		
Save Setting	1-7				Μ			- -	*	OK or ERR	ERR		
Select Setting	1-7			E	M				. *	OK or ERR	ERR		
RGB Frequency	Horizontal		T	F			- -	- -	. 1	kHz (***. * or ERR)	ERR		
Check	Vertical		T		R				. 2	Hz (***. * or ERR)	ERR		
Auto Sync	Off		A	A	D	J	- -	-	0	OK or ERR	ERR		
	Normal		A	A	D	J		-	1	OK or ERR	ERR		
Auto Pune Disala	High Speed		A	A	D	J	- -	- -	2	OK or ERR	ERR		
Auto Sync Display	Background		<u>.</u>	M	A	S		-	1	OK or ERR	ERR		
Fine Sume Disate (Adjusting Disp.		1	M	A	S	- -		0	OK or ERR			
Fine Sync Display (Balance	-30 – +30		A		R		= -		. 0	OK or ERR OK or ERR	ERR		
Treble	-30 - +30		A	A	B T	L	= ;			OK of ERR	ERR		
Bass	-30 - +30			A			= ,		*	OK or ERR	ERR		
Audio Adjustment Res			A				-	+	. 1	OK of ERR	ERR		
Audio Aujustment Res	FAO		A		U		=†=	+-	. 1	OK or ERR	ERR		
, auto Out	VAO		A	10	U	÷,	-+-	-	2	OK or ERR	ERR		
Speaker	On		A	s	P		-1-	+-	. 1	OK of ERR	ERR		
	Off		A	S	P	K	-		0	OK or ERR	ERR		
Speaker			Â		R		_	1	0	OK or ERR	ERR		
•	display)							11-			1		
Audio Display (Status Pict in Pict			P	1	N	P	_1.	_ 1	1		ERR		
Audio Display (Status	display) Bottom Right Bottom Left			1	N N	P P			1	OK or ERR OK or ERR	ERR		
Audio Display (Status	Bottom Right		Ρ		Ν	Ρ		_ 1	2	OK or ERR			
Audio Display (Status	Bottom Right Bottom Left		P P	1	Ν	P P		- 1 - 1		OK or ERR OK or ERR	ERR		

											RETURN			
	CONTROL CONT	ENTS	c	оми	MAN	١D	PA	RAI	MET	ER	Power ON	Standby mode (or 40-second startup time)		
Digital Shift	-96 - +96			N	D	s		*	*	*	OK or ERR	ERR		
OSD Display	Normal			М	D	1	_	_	1_	1	OK or ERR	ERR		
	Level A			М					_	2	OK or ERR	ERR		
	Level B			М			-	-	-	0	OK or ERR	ERR		
Video System	Auto		M		S	Y.				1	OK or ERR OK or ERR	ERR		
Selection	SECAM		M	E	S S	Y			-	2	OK of ERR	ERR ERR		
	NTSC 4.43		M	E	S	Y			1-	4	OK or ERR	ERR		
	NTSC 3.58		M	E	S	Y	_	<u> </u>	1	5	OK or ERR	ERR		
	PAL – M		M	E	S	Y	-	<u> </u>	İ	6	OK or ERR	ERR		
	PAL – N		M	Е	S	Y	_	_	_	7	OK or ERR	ERR		
Background	Logo			М	В				_	1	OK or ERR	ERR		
Selection	Custom			M	В	G			ļ	2	OK or ERR	ERR		
	Blue None			M	B	G			ļ	3	OK or ERR OK or ERR	ERR ERR		
Startup Image	Logo		<u> </u>	M	S	1	-	-	-	4	OK of ERR	ERR		
Selection	Custom		Ϋ́	M	s	hi		17	1	2	OK or ERR	ERR		
	None			M	S	Î	1_	1-	1_	3	OK or ERR	ERR		
Eco Mode	On		T	н	Μ	D	_	_	_	1	OK or ERR	ERR		
	Off		Т	н	Μ	D		_	_	0	OK or ERR	ERR		
Auto Search	On			Ν	s			<u> -</u> .	<u> </u>	1	OK or ERR	ERR		
Auto Dourse Off	Off			N	S			-	-	0	OK or ERR	ERR		
Auto Power Off	On Off		A	P P	0	W		<u> </u>	ļ	1	OK or ERR OK or ERR	ERR ERR		
Lamp Mode	Both Lamps		A	P	O M			1-	1-	0	OK of ERR	ERR		
camp wode	Lamp 1 Only		L.	P	M			<u>†</u>	<u>†</u>	1	OK of ERR	ERR		
	Lamp 2 Only		L	P	M			1	tĒ.	2	OK or ERR	ERR		
	Equal Use		L	P	M			[1-	3	OK or ERR	ERR		
Lens Type	Type 1 (AN-P8E)		L	N	Т	Y		_	_	1	OK or ERR	ERR		
	Type 2 (AN-P12E			Ν	Т	Y		<u> </u>	ļ	2	OK or ERR	ERR		
	Type 3 (AN-P15E	Z)		Ν	Т	Y		ļ	<u> -</u> .	3	OK or ERR	ERR		
	Type 4 (AN-P18E	-Z)	L	N	T	Y		<u> </u> .	<u> -</u> .	4	OK or ERR OK or ERR	ERR ERR		
	Type 5 (AN-P23E		++	N	T	Y			<u> </u>	5	OK or ERR	ERR		
	Type 6 (AN-P30E Type 7 (AN-P45E		L	N N	T	Y		<u> </u> .		6	OK of ERR	ERR		
PRJ Mode	Reverse	0n		M	R		-	-	+-	1	OK of ERR	ERR		
	1.000.00	Off	t †	M	R	E			-	0	OK or ERR	ERR		
	Invert	On		M	1	N	1_	-	1	1	OK or ERR	ERR		
		Off		М	T	N		-	-	0	OK or ERR	ERR		
Stack Setting	Normal		S	Т	A	К		_	_	0	OK or ERR	ERR		
	Master		S	Т	A	K			<u> -</u>	1	OK or ERR	ERR		
	Slave			Т	А	К	-	-	-	2	OK or ERR	ERR		
Keylock Level	Normal Level A		K	E	Y	L.		ļ	ļ	0	OK or ERR OK or ERR	ERR ERR		
	Level B		K	E	Y Y	L		ļ	<u> </u> .	1	OK of ERR	ERR		
Set Inputs	COMPUTER1	ON	R	A	S		-	-	-	2	OK of ERR	ERR		
		OFF	R	A	S	hir		1	1	0	OK or ERR	ERR		
	COMPUTER2	ON	R		S	Ι	_	_	-	1	OK or ERR	ERR		
		OFF	R	В	S	1	_	_	_	0	OK or ERR	ERR		
	DVI	ON		С	S	1		_	_	1	OK or ERR	ERR		
	11014	OFF		С	S	1	-	-	-	0	OK or ERR	ERR		
	HDMI	ON		D	S	ļ.			<u> </u>	1	OK or ERR OK or ERR	ERR ERR		
	VIDEO	OFF ON	R	D A	S		-	-	1-	0	OK or ERR	ERR		
	VIDEO	OFF	V	A	S S	<u>.</u>		<u> </u>		1	OK of ERR	ERR		
	S-VIDEO	ON	V	B	S		1-	1	1	1	OK of ERR	ERR		
		OFF	v	В	S	i	1	tĒ.	tĒ.	0	OK or ERR	ERR		
Fan Mode	Normal		H	L	M	D	-	-	-	0	OK or ERR	ERR		
	High		н	L	М	D	_	-	_	1	OK or ERR	ERR		
Auto Restart	On		A		Е	S		<u> -</u>	<u> -</u>	1	OK or ERR	ERR		
	Off		A	R	E	S	-	-	-	0	OK or ERR	ERR		
Monitor Out	Enable Disable		M		U	T		<u> -</u> .	<u> </u> .	1	OK or ERR OK or ERR	ERR ERR		
LAN/RS232C	Enable		M	0 N	U R	T		-	-	0	OK or ERR	ERR		
L WI IOLULU	Disable			N				<u> </u> -	<u> </u>	1	OK of ERR	*5		
Language	ENGLISH		M		L	A	-	1-	1-	1	OK of ERR	ERR		
99-	DEUTSCH		M	E	L	A	1-	12	1-	2	OK or ERR	ERR		
	ESPAÑOL		M	Е	L	A		<u> </u> _	1_	3	OK or ERR	ERR		
	NEDERLANDS		Μ	Е	L	Α	_	[_	_	4	OK or ERR	ERR		
	FRANÇAIS		M	Е	L	Α		[[5	OK or ERR	ERR		
	ITALIANO		Μ		L	A		ļ	<u> -</u>	6	OK or ERR	ERR		
	SVENSKA		M		L	A		ļ	<u> </u> .	7	OK or ERR	ERR		
	日本語 PORTUGUÊS		M		L	A		ļ	ļ. .	8	OK or ERR OK or ERR	ERR ERR		
			M		L	A		 	l-	9 0	OK or ERR	ERR		
	[汉语] 한국어		M		L	A		ļ	1		OK of ERR	ERR		
	Русский		M		L	A		<u>∔</u>		2	OK of ERR	ERR		
	عربي		M		Ľ	A		<u>†</u>		3	OK or ERR	ERR		
	polski		M		Ľ	A		tĒ.		4	OK or ERR	ERR		
	Türkçe		M		L	A		t=		5	OK or ERR	ERR		
	فارسى		M		Ē	A		t_		6	OK or ERR	ERR		

*1 Lamp Timer Reset command is available only in standby mode. *2 Serial No. Check command is used to read out the 12 digits of serial No.. *3 For setting the projector name, send the commands in order of PJN1, PJN2 and PJN3. *4 Parameters of CLR Temp settings are as follows.

CLR Temp		Para	meter		CLR Temp		Para	meter		CLR Temp		Para	meter	
4500K	-	0	4	5	7500K	-	0	7	5	10500K	_	1	0	5
5500K	_	0	5	5	8500K	_	0	8	5					
6500K	_	0	6	5	9300K	_	0	9	3					

*5 Because the RS-232C function stops, the projector send no response code. *6 See page 65 of the projector's operation manual for the initialized items by using "All Reset".

Setting up the Projector Network Environment

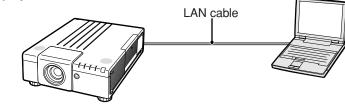
This section describes the basic procedure for using the projector via the network.

If the network is already constructed, the projector's network settings may need to be changed. Please consult your network administrator for assistance with these settings. You can make network settings both on the projector and on the computer. The following procedure is for making settings on the computer.

Network settings on the computer

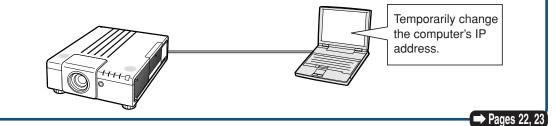
Connecting the projector to a computer

Connect a commercially available LAN cable (UTP cable, Category 5, <u>cross-over type</u>) between the computer and projector.



2∎ Setting an IP address for the computer

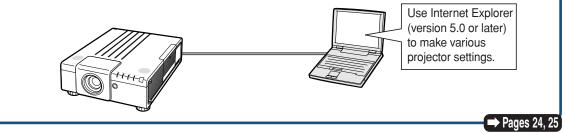
Adjust the IP settings of the computer to enable one-to-one communications with the projector.



➡ Page 21

3. Setting up a network connection for the projector

Adjust the projector network settings to conform to your network.



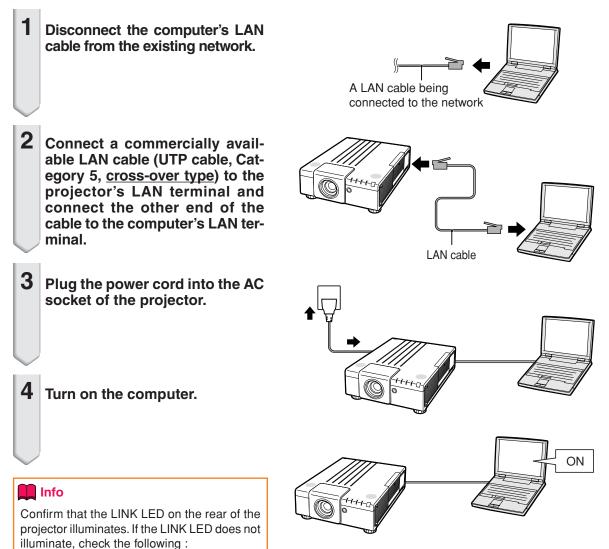
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- All other company or product names are trademarks or registered trademarks of their respective companies.

1. Connecting the Projector to a Computer

Establishing a one-to-one connection from the projector to a computer. Using a commercially available LAN cable (UTP cable, Category 5, <u>cross-over type</u>) you can configure the projector via the computer.

The LAN cable is properly connected.The power switches of both the projector

and the computer are on.

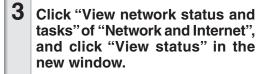


This completes the connection. Now proceed to "2. Setting an IP Address for the Computer".

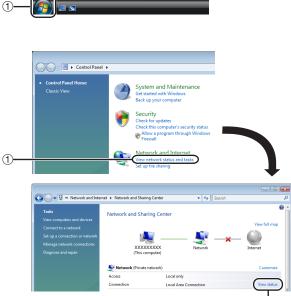
2. Setting an IP Address for the Computer

The following describes how to make settings in Windows Vista®.

- 1 Log on the network using the administrator's account for the computer.
- **2** Click "start", and click "Control Panel".



 This manual uses examples to explain the operations in Category View. If you are using Classic View, double-click "Network and Sharing Center".



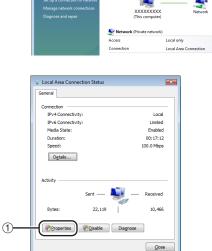
Network

C

2

Click "Properties".

• When the user account control display is displayed, Click "Continue".



4

Setting up the Projector Network Environment

×

1

2

? **X**

5	Click "Internet Protocol Version	📮 Local Area Connection Properties 🛛 🔀	
	4 (TCP/IPv4)", and click the "Properties" button.	Networking Connect using:	
		👰 VIA Rhine II Fast Ethemet Adapter	
		Configure This cgnnection uses the following items: Client for Microsoft Networks Client for Microsoft Networks Clien	
6	Confirm or change an IP address for the setup computer.	Internet Protocol Version 4 (TCP/IPv4) Properties	2
	 Confirm and note the current IP address, Subnet mask and Default gateway. Make sure to note the current IP address, Subnet mask and Default gateway as you will be required to reset them later. Set temporarily as follows : IP address : 192.168.150.3 Subnet mask : 255.255.255.0 Default gateway : (Do not input any 	You can get IP settings assigned automatically if your network suppor You can get IP settings assigned automatically if your network administrato Image: Setting the appropriate IP settings. Image: Optimized Description Image: Optimized Descr	
	values.)		
R	Note		
• T	be factory default settings for the projector		

The factory default settings for the projector are as follows: **DHCP Client : OFF** IP address : 192.168.150.2 Subnet mask : 255.255.255.0 Default gateway : 0.0.0.0



After confirming or setting, proceed to "3. Setting up Network Connection for the Projector".

3. Setting up a Network Connection for the Projector

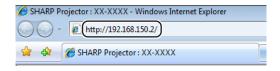
Settings for such items as the projector's IP address and subnet mask are compatible with the existing network. Set each item on the projector as follows. (See page 64 of the projector's operation manual for setting.) DHCP Client : OFF IP Address : 192.168.150.002 Subnet Mask : 255.255.255.000

1 Start Internet Explorer (version 5.0 or later) on the computer, and enter "http://192.168.150.2/" in "Address", and then press the "Enter" key.

2 If a user name and a password have not yet been set, just click the "OK" button.

- If a user name and a password have been set, input the user name and the password, and click the "OK" button.
- If the user name or password is entered incorrectly three times, an error message will be displayed.
- When you are using Internet Explorer 7, other setup screen may be displayed. In this case, make the proper adjustments for the setup screen.

3 When the screen as shown on the right appears, click "TCP/IP".





🚖 🕸 🌈 SHARP Projector i XX-XX	XX	🖄 * 🔯 * 🔶 Eoge * 🔅 Tgo
Sharp Projector	Status	
XX-XXXX	Sharp XX-XXXX (192.168	150.2)
- Menu -	MAC Address	200000000000
Status	Power	ON
	Condition	Normal
Control	Lamp Timer 1	3hour(s) 30minute(s)
Settings & Adjustments - Picture	Lamp Timer 2	3hour(s) 30minute(s)
Fine Sync	Lamp Life 1	99%
- Audio - Options 1	Lamp Life 2	99%
- Options 2 - Video Wall	Input	COMPUTER1 (RGB Component)
Stack All Reset	Signal Info	1024x768
- Language	Serial Number	
- <u>TCPIP</u> - <u>General</u> Mail - <u>Originator</u> - Recipient	Retesh	

Setting up the Projector Network Environment

4 The TCP/IP setting screen appears, ready for network settings for the projector.

Items	Setting example / Remarks
DHCP	Select "ON" or "OFF" to determine
Client	whether to use DHCP Client.
IP Address	You can set this item when "DHCP
	Client" is set to "OFF".
	Factory default setting: 192.168.150.2
	Enter an IP address appropriate
	for the network.
Subnet	You can set this item when "DHCP
Mask	Client" is set to "OFF".
	Factory default setting: 255.255.255.0
	Set the subnet mask to the same
	as that of the computer and
	equipment on the network.
Default	You can set this item when "DHCP
Gateway	Client" is set to "OFF".
	Factory default setting: 0.0.0.0
	* When not in use, set to "0.0.0.0".
DNS	Factory default setting: 0.0.0.0
Server	* When not in use, set to "0.0.0.0".

Note 📎

5

- Confirm the existing network's segment (IP address group) to avoid setting an IP address that duplicates the IP addresses of other network equipment or computers. If "192.168.150.2" is not used in the network having an IP address of "192.168.150.XXX", you don't have to change the projector IP address.
- For details about each setting, consult your network administrator.

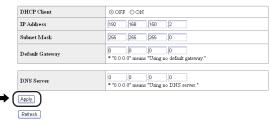
Click the "Apply" button.

6 The set values appear. Confirm that the values are set properly, and then click the "Confirm" button.

Network - TCP/IP

DHCP Client	© OFF O ON
IP Address	192 168 150 2
Subnet Mask	255 255 0
Default Gateway	0 0 0 0 * "0.0.0" means "Using no default gateway."
DNS Server	0 0 0 0 * "0.0.0" means "Using no DNS server."

Network - TCP/IP



Network - TCP/IP The TCP/IP settings will be changed as below. DHCP Chent : OFF P. & ddrese : 192 168 150 2

TP Address 192 168 150 2 Subnet Mask 255 255 255 0 Default Gateway: 0.0.0 DNS Server : 0.0.0 Do you want to change the TCP/IP settings?

After you click "Confirm", if you want to continue to operate this projector via the network, please wait for 10 seconds and then re-access to "192.168.150.2".

- · Close the browser.
- This completes the network settings.
- · After setting items, wait for 10 seconds and then re-access.
- Change the IP address of the setting computer back to its original address, which you have noted down in Step 6-① on page 23, and then connect the computer and the projector to the network.

Controlling the Projector via LAN

After connecting the projector to your network, enter the projector IP address in "Address" on Internet Explorer (version 5.0 or later) using a computer on the network to start a setup screen that will enable control of the projector via the network.

Controlling the Projector Using Internet Explorer (Version 5.0 or later)

Complete connections to external equipment before starting the operation. (See pages 24-27 of the projector's operation manual.) Complete the AC cord connection. (See page 28 of the projector's operation manual.)

Note 📎

1

- When connecting the projector to the LAN, use a commercially available LAN cable (UTP cable, Category 5, <u>cross-over type</u>). When connecting the projector to a hub, use a straight-through cable.
 - Start Internet Explorer (version 5.0 or later) on the computer.
- 2 Enter "http://" followed by the projector IP address set by the procedure on page 25 followed by "/" in "Address", and then press the "Enter" key.
 - The factory default setting for the projector : "DHCP Client" is "OFF" and IP address is "192.168.150.2". If you did not change the IP address in "3. Setting up a Network Connection for the Projector" (pages 24, 25), enter "http://192.168.150.2/".
- **3** A screen for controlling the projector appears, ready for performing various status conditions, control, and settings.

🏉 SHARP P	rojector : XX-XXXX - Windows Internet Explorer
00-	/ http://192.168.150.2/
🚖 🏟	SHARP Projector : XX-XXXX

SHARP Projector : XX-XXXX - Windows	Internet Explorer	• 49 X Live Search	- 10 - 1 0 - 0
🖈 🏟 🍘 SHARP Projector : XX-XXX	x	ling = ling = ling = ling = a	
Sharp Projector	Status		
XX-XXXX	Sharp XX-XXXX (192.168.	150.2)	
- Menu -	MAC Address	200000000000	
Status	Power	ON	-
	Condition	Normal	-
Control	Lamp Timer 1	3hour(s) 30minute(s)	-
Settings & Adjustments - Picture	Lamp Timer 2	3hour(s) 30minute(s)	-
- Fine Sync	Lamp Life 1	99%	_
- Audio - Options 1	Lamp Life 2	99%	-
- Options 2 - Video Wall	Input	COMPUTER1 (RGB Component)	-
- Stack - All Reset	Signal Info	1024x768	
- Language	Serial Number		
Network - TCP/IP - Security - General	Retesh		
Mail - Originator - <u>Recipient</u>			
Done		🗣 Local intranet Protected Mode: On 🗮	100% +

Confirming the Projector Status (Status)

Status

Sharp XX-XXXX (192.10	(8.150.2)
MAC Address	****
Power	ON
Condition	Normal
Lamp Timer 1	3hour(s) 30minute(s)
Lamp Timer 2	3hour(s) 30minute(s)
Lamp Life 1	99%
Lamp Life 2	99%
Input	COMPUTER1 (RGB/Component)
Signal Info	1024x768
Serial Number	

Refresh

On this screen, you can confirm the projector status. You can confirm the following items :

- MAC Address
- Power
- Condition
- Lamp Timer 1
- Lamp Timer 2
- Lamp Life 1
- Lamp Life 2
- Input
- Signal Info
- Serial Number

Note 📎

- If you click the "Refresh" button before the screen is displayed completely, an error message ("Server Busy Error") will be displayed. Wait for a moment and then operate again.
- For details about each item, refer to the projector's operation manual.

Controlling the Projector (Control)

Control

POWER	© STANDBY ⊕ ON
INPUT Select	COMPUTER1 (RGB/Component) -
VOLUME	1 •
MUTE	● Off [©] On
SHUTTER	● OPEN CLOSE

Refresh

On this screen, you can perform projector control. You can control the following items :

- Power
- Input Select
- Volume
- Mute (Audio)
- Shutter

🗞 Note

- If you click the "Refresh" button before the screen is displayed completely, an error message ("Server Busy Error") will be displayed. Wait for a moment and then operate again.
- You cannot operate this page while the projector is warming up.
- While the projector is in standby mode, you can only control "Power ON".
- For details about each item, refer to the projector's operation manual.

Setting and Adjusting the Projector (Settings & Adjustments)

Example: "Picture" screen display for COMPUTER1 Settings & Adjustments - Picture (COMPUTER1)

Standard - Reset
7500K •
3D Progressive -
Standard 🗸
Off 👻
Auto 👻

Refresh

On these screens, you can make projector settings or adjustments. You can set or adjust the following items :

- Picture Mode
- Auto Search
 Auto Power Off
 Password

Lamp Mode

Projection Mode

Keylock Level

Lens Type

- CLR Temp
- Progressive
- C.M.S. Adjustment
- DNR
- Signal Type
- Dynamic Range
- Color Space
- Auto Sync
- Auto Sync Disp
- Audio Out
- Internal Speaker
- Resize
- OSD Display
- Video System (VIDEO/S-VIDEO)
- Background
- Startup Image
- Eco Mode

- Set InputsFan ModeAuto Restart
- RS-232C Speed
- Monitor Out (Standby)
- Video Wall
- (See page 44.) • Stack Setting
- (See page 41.)
- All Reset
- OSD Language

Note 📎

- If you click the "Refresh" button before the screen is displayed completely, an error message ("Server Busy Error") will be displayed. Wait for a moment and then operate again.
- You cannot operate this page while the projector is warming up.
- While the projector is in standby mode, you can only control "Power ON".
- For details about each item, refer to the projector's operation manual.
- For details about the items that will be initialized in "All Reset", refer to the projector's operation manual. (The network setting items will not be initialized.)

Setting the Security (Network – Security)

Network - Security

User Name	(MAX 8 characters)
Password	(MAX 8 characters)

This user name / password is for accessing via Web browser and Telnet. *You will need to re-login with the new user name / new password after you change the user name / password.

Accept IP Address	⊙ All IP Addresses ○ From only specific IP addresses
	Address 1 0 . 0 . 0 . 0
	Address 2 0 . 0 . 0 . 0
	Address 3 0 0 0 0

Apply

Refresh

On this screen, you can make settings relating to security.

Items	Description	
User Name	Setting of user name for	
	security protection.	
Password	Setting of password for	
	security protection.	
Accept IP	It is possible to set up to three	
Address	IP addresses allowing connec-	
	tion to the projector.	
All IP	No limits are set to IP addresses	
Addresses	connecting to the projector.	
From only	For security improvement, only an	
specific IP	IP address set by "Address 1-3"	
addresses	can be connected to the projector.	

After clicking the "Apply" button, the set values appear. Confirm that the values are set properly, and then click the "Confirm" button.

Note 🚫

- After setting items, wait for 10 seconds and then re-access.
- User Name and Password can be up to 8 characters.
- You can input the characters below : a-z, A-Z, 0-9, -, _
- To cancel User Name and Password, enter nothing and then press "Apply" button.

Making General Settings for the Network (Network – General)

Network - General

Projector Name	(MAX 12 characters)
Auto Logout Time	5 minute(s) (0-65535) * If the set value is made 0, the Auto Logout function is disabled.
Data Port	10002 (1025-65535)
Search Port	5006 (1025-65535)

Apply

Refresh

On this screen, you can make general settings relating to the network.

Items	Description
Projector	Setting the projector name.
Name	
Auto	Setting the time interval in
Logout	which the projector will be
Time	automatically disconnected
	from the network in units of a
	minute (from 1 to 65535
	minutes). If the set value is
	made 0, the Auto Logout
	function is disabled.
Data Port	Setting the TCP port number
	used when exchanging data
	with the projector (from 1025 to
	65535).
Search	Setting the port number used
Port	when searching for the
	projector (from 1025 to 65535).

After clicking the "Apply" button, the set values appear. Confirm that the values are set properly, and then click the "Confirm" button.

Note

- After setting items, wait for 10 seconds and then re-access.
- Projector Name can be up to 12 characters.
- You can input the characters below : A-Z, 0-9, -, _, (,), space (When "a-z" are input, they are converted to "A-Z" automatically.)

Setting for Sending E-mail when an Error Occurs (Mail – Originator Settings)

Mail - Originator Settings

SMTP Server	
	(MAX 64 characters)
Originator E- mail Address	(MAX 64 characters)
Originator Name	(MAX 64 characters)

Apply

Refresh

On this screen, you can make settings for sending e-mail to report when the projector has generated an error.

Items	Setting example / Remarks			
SMTP	Setting an SMTP server			
Server	address for e-mail transmis- sion.			
	e.g.1 : 192.168.150.253			
	e.g.2 : smtp123.sharp.co.jp			
	* When using a domain name,			
	make settings for the DNS			
	server.			
Originator	Setting the projector's e-mail			
E-mail	address. The e-mail address set			
Address	here becomes Originator E-mail			
	Address.			
Originator	Setting the sender's name.			
Name	The name set here appears in			
	the "Originator Name" column			
	of the body of the message.			

🗞 Note

- SMTP Server, Originator E-mail Address and Originator Name can be up to 64 characters.
- You can input the characters below: SMTP Server and Originator E-mail Address : a-z, A-Z, 0-9, !, #, \$, %, &, *, +, -, /, =, ?, ^, {, |, }, ~, _, ', ., @,`

(You can input "@" only one time for "Originator E-mail Address".)

Originator Name : a-z, A-Z, 0-9, -, _, (,), space

 If the settings of "3. Setting up a Network Connection for the Projector" on pages 24 and 25 are incorrectly set, e-mail will not be sent.

Setting Error Items and Destination Addresses to which E-mail is to be Sent when an Error Occurs (Mail – Recipient Settings)

Mail - Recipient Settings

Recipient	E-mail Address		Error Mail			
Addresses	(MAX 64 characters)	Lamp	Temp	Fan	Cover	
	1				🗆 Te	est
	2				🗆 Te	est
	3				🗆 Te	est
	4				🗆 Te	est
	5				🗆 Te	est

Apply

Refresh

On this screen, you can input e-mail destinations to which error notification (error items) e-mails are sent.

Items	Description
E-mail	Set addresses to which error
Address	notification e-mail is sent. You
	can set up to five addresses.
Error Mail	Error e-mail is sent on the error
(Lamp, Temp,	items checked in their check
Fan, Cover)	boxes.
Test	Send test e-mail. This allows
	you to confirm that the settings
	for e-mail transmission are
	properly set.

🗞 Note

- E-mail Address can be up to 64 characters.
- You can input the characters below : a-z, A-Z, 0-9, !, #, \$, %, &, *, +, -, /, =, ?, ^, {, |, }, ~, _, ', ., @,`

(You can input "@" only one time.)

• For details about error items, refer to the projector's operation manual.

Setting Error Items and the URL that are to be Displayed when an Error Occurs (Service & Support – Access URL)

Service & Support - Access URL Registration

Access URL		C	ondition	ı			
	(MAX 64 characters)	Always	Lamp	Temp	Fan	Cover	
	1						Tes
	2						Tes
	3						Tes
	4						Tes
	5						Tes

Refresh

On this screen, you can make settings of the URL and error items that are to be displayed when the projector has generated an error.

Items	Description
Access	Set the URL that is to be
URL	displayed when an error
	occurs. You can set up to five
	addresses.
Condition	The URL is displayed when an
(Always, Lamp,	error checked in their check
Temp, Fan, Cover)	boxes occurs.
Test	The set URL site is test-
	displayed. This allows you to
	confirm that the URL site is
	properly displayed.

Example of the display when an error occurs

Status

Sharp XX-XXXX (192.168.150.2)			
MAC Address	*****		
Power	STANDBY		
	The cooling fan is not operating.		
Condition	Access URL 1 http://www.sharp-world.com/projector/		
Lamp Timer 1	3hour(s) 30minute(s)		
Lamp Timer 2	3hour(s) 30minute(s)		
Lamp Life 1	99%		
Lamp Life 2	99%		
Input			
Signal Info			
Serial Number			

Refresh

Setting the Projector Using RS-232C or Telnet

Connect the projector to a computer using RS-232C or Telnet, and open the SETUP MENU on the computer to carry out various settings for the projector.

When Connecting Using RS-232C

1	Launch general purpose terminal emulator.
2	Input settings for the RS-232C port of the terminal emulator as follows.
	Baud Rate: 9600 bps*Data Length: 8 bitParity Bit: NoneStop Bit: 1 bitFlow Control: None
	* This is the factory default setting. If the value of Baud Rate for the projector has been changed, set Baud Rate here according to the changed value on the projector.
3	Input "PJS11234" and press the "En- ter" key.
4	"OK" is displayed. Input "PJS25678" and press the "Enter" key within 10 seconds.
5	"OK" is displayed. Press the "En- ter" key.
6	"User Name:" is displayed. Input the user name and press the "Enter" key.
	 If a user name has not yet been set, just press the "Enter" key.

7 "Password:" is displayed. Input the password and press the "Enter" key.

- If a password has not yet been set, just press the "Enter" key.
- 8 Input "setup" and press the "Enter" key.
 - SETUP MENU will be displayed.

VSETUP MENU

	SETUP MENU	
[1]IP Address	[2]Subnet Mask	[3]Default Gateway
[4]User Name	[5]Password	
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client
[A]Advanced Setup		[D]Disconnect All
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged

setup>

Note

- User name and password are not set in the factory default settings.
- If the user name or password is entered incorrectly three times, SETUP MENU will be quit.

When Connecting Using Telnet



- 2 Enter "telnet 192.168.150.2" in the text box that opens up. (If the IP address of the projector is 192.168.150.2.)
- 3

5

Click the "OK" button.

4 "User Name:" is displayed. Input the user name and press the "Enter" key.

- If a user name has not yet been set, just press the "Enter" key.
- "Password:" is displayed. Input the password and press the "Enter" key.
 - If a password has not yet been set, just press the "Enter" key.
- 6 Input "setup" and press the "Enter" key.
 - SETUP MENU will be displayed.

▼SETUP MENU

	SETUP MENU	
[1]IP Address	[2]Subnet Mask	[3]Default Gateway
[4]User Name	[5]Password	
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client
[A]Advanced Setup		[D]Disconnect All
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged

setup>

Note

- If the IP address has been changed, be sure to enter the new IP address in step 2.
- User name and password are not set in the factory default settings.
- If the user name or password is entered incorrectly three times in steps 4 or 5, SETUP MENU will be quit.
- If you are using Windows Vista[®], activate Telnet Client. For details, see the operation manual of your computer.

SETUP MENU (Main Menu)

▼SETUP MENU

	SETUP MENU	
[1]IP Address	[2]Subnet Mask	[3]Default Gateway
[4]User Name	[5]Password	
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client
[A]Advanced Setup		[D]Disconnect All
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged
setup>		

- [1] IP Address (Factory default setting : 192.168.150.2) IP address settings. (Page 36)
- [2]Subnet Mask (Factory default setting : 255.255.255.0)
 - Subnet mask settings. (Page 36)
- [3]Default Gateway (Factory default setting : Not Used)

Default gateway settings. (Page 36)

[4]User Name (Factory default setting : Not Required)

Setting of user name for security protection. (Page 36)

- [5] Password (Factory default setting : Not Required) Setting of password for security protection. (Page 37)
- [6]RS-232C Baud Rate (Factory default setting : 9600 bps)

Baud rate settings for the RS-232C terminals. (Page 37)

[7] Projector Name

It is possible to assign a projector name. (Page 37)

[8] DHCP Client

DHCP Client settings. (Page 37)

[A]Advanced Setup

Enters ADVANCED SETUP MENU. (Page 38)

[D]Disconnect All

Disconnect all connections. (Page 38)

[V] View All Setting Displays all setting values. (Page 34)

Can also be used with ADVANCED SETUP MENU.

[S]Save & Quit

Save set values and quit menu. (Page 35)

[Q]Quit Unchanged

Quit menu without saving setting values. (Page 35)

Note 📎

 The factory default settings for the projector are as follows: DHCP Client : OFF IP address : 192.168.150.002 Subnet mask : 255.255.255.000 Default gateway : 000.000.000.000

ADVANCED SETUP MENU

▼ADVANCED SETUP MENU

************** AD\ [1]Auto Logout Time [5]Network Ping Test	/ANCED SETUP MENU [2]Data Port	******
[6]Accept IP Addr(1) [9]Accept All IP Addr	[7]Accept IP Addr(2) [0]Search Port	[8]Accept IP Addr(3)
[!]Restore Default Sett [Q]Return to Main Mer	0	
advanced>		

[1] Auto Logout Time (Factory default setting : 5 minutes)

Setting of time until automatic disconnection of network connection. (Page 38)

[2]Data Port (Factory default setting : 10002)

Setting the TCP port number used when exchanging data. (Page 38)

[5]Network Ping Test

It is possible to confirm that a network connection between the projector and a computer etc. is working normally. (Page **39**)

[6] Accept IP Addr(1)

- [7]Accept IP Addr(2)
- [8]Accept IP Addr(3)
- [9]Accept All IP Addr (Factory default setting : Accept All)

For improved security, it is possible to set up to three IP addresses allowing connection to the projector. Set IP addresses can be cancelled using [9] Accept All IP Addr. (Page **39**)

[0] Search Port (Factory default setting : 5006)

Setting the port number used when searching for the projector. (Page **40**)

[!] Restore Default Setting Restores all setting values that can be set using the menu to the default state. (Page 40)

[Q]Return to Main Menu

Return to the main SETUP MENU. (Page 40)

Controlling the Projector Using RS-232C or Telnet

Enter number or symbol of item to be selected on the SETUP MENU. When setting, input the details to be set. Setting is carried out one item at a time, and saved at the end.

View Setting Detail List ([V]View All Setting)

▼SETUP MENU

[A]Advanced Setup	[2]Subnet MENU [2]Subnet Mask [5]Password late [7]Projector Name [S]Save & Quit	[3]Default Gateway [8]DHCP Client [D]Disconnect All [Q]Quit Unchanged	
(setup>v)			1
Model Name Projector Name MAC Address DHCP Client IP Address Subnet Mask Default Gateway RS-232 Baud Rate Password Password Data Port Accept IP Address	: XX:XX:XX:XX:XX:XX : Off : 192.168.150.2 : 255.255.255.0 : Not Used : 9600 bps : Not Required Status)******** : 10002 : Accept All		*
Auto Logout Time Search Port	: 5 minutes : 5006		

① Enter "v" and press the "Enter" key. Display all setting values(*).

Set Items

Example: When setting IP Address (change from 192.168.150.2 to 192.168.150.3)

VSETUP MENU

	SETUP MENU		
[1]IP Address	[2]Subnet Mask	[3]Default Gateway	
[4]User Name	[5]Password		
[6]RS-232C Baud F	Rate [7]Projector Name	[8]DHCP Client	
[A]Advanced Setup		[D]Disconnect All	
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged	
(setup>1)			L
IP Address : 1	92.168.150.2		L * ·
Please Enter : 1	92.168.150.3		<u>-</u> @
(change) -> 1			L *
	SETUP MENU		
[1]IP Address		[3]Default Gateway	
[4]User Name		[.]	
[6]RS-232C Baud F	Rate [7]Projector Name	[8]DHCP Client	
[A]Advanced Setup		[D]Disconnect All	
[V]View All Setting		[Q]Quit Unchanged	
	1.1	[]	
(setup>v)			<u> </u> 3
	: XX-XXXX		-
Projector Name	: XX-XXXX		
	: XX:XX:XX:XX:XX:XX		
MAC Address DHCP Client			_ *(
MAC Address DHCP Client	: Off : 192.168.150.3		_*;
MAC Address DHCP Client IP Address	: Off : 192.168.150.3 : 255.255.255.0		_*;
MAC Address DHCP Client IP Address Subnet Mask	: Off : 192.168.150.3 : 255.255.255.0 : Not Used		_*;
MAC Address DHCP Client IP Address Subnet Mask Default Gateway	: Off : 192.168.150.3 : 255.255.255.0 : Not Used		_*;
MAC Address DHCP Client IP Address Subnet Mask Default Gateway RS-232C Baud Rate	: Off : 192.168.150.3 : 255.255.255.0 : Not Used e : 9600 bps : Not Required		*
MAC Address DHCP Client IP Address Subnet Mask Default Gateway RS-232C Baud Rate Password	: Off : 192.168.150.3 : 255.255.255.0 : Not Used e : 9600 bps : Not Required Status)********		*
MAC Address DHCP Client IP Address Subnet Mask Default Gateway RS-232C Baud Rate Password	: Off : 192.168.150.3 : 255.255.255.0 : Not Used e : 9600 bps : Not Required Status)******** : 10002		*
MAC Address DHCP Client IP Address Subnet Mask Default Gateway RS-232C Baud Rate Password *********(Advanced Data Port	: Off : 192.168.150.3 : 255.255.255.0 : Not Used e : 9600 bps : Not Required Status)******** : 10002 : Accept All	:	

 Enter "1" (number of item to be set), and press the "Enter" key.

Display current IP address (*1).

② Enter IP address to be set and press the "Enter" key.

Display IP address after change (*2).

③ Enter "v" and press the "Enter" key to verify setting detail list.

IP address is being changed (*3).

Note 📎

- Verification of setting detail list can be omitted.
- Setting details are not effective until they have been saved. (Page 35)
- If an invalid number is entered, an error message ("Parameter Error!") will be displayed.

Save Settings and Quit ([S]Save & Quit)

Save set values and quit menu.

▼SETUP MENU

	SETUP MENU		
[1]IP Address	[2]Subnet Mask	[3]Default Gateway	
[4]User Name	[5]Password		
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client	
[A]Advanced Setup		[D]Disconnect All	
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged	
(setup>s)			-(1)
All Connection will be d	isconnect.		
Continue(y/n)? y			-(2)
Apply New settingDor			
Apply New SettingDoi	ic.		

① Enter "s" and press the "Enter" key.

② Enter "y" and press the "Enter" key.

Quit without Saving Settings ([Q]Quit Unchanged)

Quit menu without saving setting values.

▼SETUP MENU

	SETUP MENU		
[1]IP Address	[2]Subnet Mask	[3]Default Gateway	
[4]User Name	[5]Password		
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client	
[A]Advanced Setup		[D]Disconnect All	
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged	
(setup>q)	_		<u>-(1</u>
Quit Without Saving(y/n)? y			
Setting Unchanged.			
-			1

- ① Enter "q" and press the "Enter" key.
- ② Enter "y" and press the "Enter" key.

Controlling the Projector Using RS-232C or Telnet

The setting procedure for each item will be explained. For the basic procedure, please refer to "Set Items" on page 34.

IP Address Setting ([1]IP Address)

Setting of IP address.

(1)
*

- ① Enter "1" and press the "Enter" key.
- ② Enter numerical value to be set and press the "Enter" key.

Display IP address after change (*).

Subnet Mask Setting ([2]Subnet Mask)

Setting subnet mask.

(setup>2)		1
Subnet Mask	:255.255.255.0	
Please Enter	:255.0.0.0	10
(change) ->	255.0.0.0	*

① Enter "2" and press the "Enter" key.

② Enter numerical value to be set and press the "Enter" key.

Display subnet mask after change (*).

Default Gateway Setting ([3]Default Gateway)

Setting default gateway.

(setup>3)	
note: "0.0.0.0" means "Using no default gateway."	
, , , , , , , , , , , , , , , , , , ,	
Gateway Address :0.0.0.0	
Please Enter :192.168.150.1	+2
(change) -> 192.168.150.1	*

- 1 Enter "3" and press the "Enter" key.
- ② Enter numerical value to be set and press the "Enter" key.

Display gateway address after change (*).

📎 Note

 If the values for IP Address, Subnet Mask or Gateway of the projector have been changed via Telnet, the computer cannot be connected to the projector depending on the computer's network settings.

User Name Setting ([4]User Name)

Carrying out security protection using user name.



- ① Enter "4" and press the "Enter" key.
- ② Enter user name and press the "Enter" key. Display set user name (*).

Note Note

- User name can be up to 8 characters.
- You can input the characters below : a-z, A-Z, 0-9, -, _
- In the default state, user name is not set.

Password Setting

([5]Password)

Carrying out security protection using password.

(setup>5)		$\Box_{\mathfrak{m}}$
Password		T
(Please Enter	<u>: sharppj</u>	\Box
(change) —>	sharppj	*

Enter "5" and press the "Enter" key.
 Enter password and press the "Enter" key.

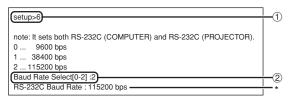
Display set password (*).

🕙 Note

- Password can be up to 8 characters.
- You can input the characters below : a-z, A-Z, 0-9, -,
- In the default state, the password is not set.

RS-232C Baud Rate Setting ([6]RS-232C Baud Rate)

Setting of baud rate for RS-232C (COMPUTER and PROJECTOR) terminals.



- ① Enter "6" and press the "Enter" key.
- ② Select and enter the number 0, 1 or 2 and press the "Enter" key.

Display set baud rate (*).

🗞 Note

• Set the projector's baud rate to the same rate as that used by the computer.

Projector Name Setting ([7]Projector Name)

It is possible to assign a projector name.

(setup>7)		
Projector Name	· XX-XXXX	
Please Enter	: MY XX-XXXX)	(2)
(change) ->	MY XX-XXXX	<u> </u>

- ① Enter "7" and press the "Enter" key.
- ② Enter projector name. Display set projector name (*).

🗞 Note

- Projector name can be up to 12 characters.
- You can input the characters below :
- A-Z, 0-9, -, _, (,), space (When "a-z" are input, they are converted to "A-Z" automatically.)
- It is the same as the name which can be confirmed or set, using RS-232C commands "PJN0", "PJN1", "PJN2" and "PJN3".

DHCP Client Setting ([8]DHCP Client)

Setting DHCP Client to "On" or "Off".

Example: When setting DHCP Client to "On"

(setup>8)	<u> </u>
note: It sets DHCP Client.	
0 Off	
1 On	
DHCP Select[0-1]: 1	<u>+</u> _2
DHCP Client : On	-
Success get data from DHCP server.	
[MAC Address] : [XX:XX:XX:XX:XX:XX]	
[IP Address]: [192.168.150.2]	<u> </u>
[Subnet Mask] : [255.255.255.0]	*
[Default Gateway] : [0.0.0.0]	
[DHCP IP Address] : [192.168.150.1]	

- ① Enter "8" and press the "Enter" key.
- ② Enter "1" and press the "Enter" key. Display the obtained values (*).

Disconnecting All Connections ([D]Disconnect All)

It is possible to disconnect all the TCP/IP connections currently recognized by the projector. Even if the COM Redirect port is fixed in the Busy status due to a problem, it is possible to force the Ready status back by carrying out this disconnection.

(setup>d)	
(Disconnect All Connections(y/n)?y	
Now Disconnecting	

Enter "d" and press the "Enter" key.
 Enter "y" and press the "Enter" key.

Note Note

• If Disconnect All is performed, the connection to the projector via network will be forcibly disconnected.

Setting Auto Logout Time (ADVANCED[1]Auto Logout Time)

If there is no input after a fixed time, the projector automatically disconnects network connection using the Auto Logout function. It is possible to set the time until the projector is automatically disconnected in units of a minute (from 1 to 65535 minutes).

(advanced>1)		_ ①
	35 (minute)	U
	ogout function will be disable.	
Auto Logout Time : 5		
Please Enter :15		-2
(change) -> 15		*

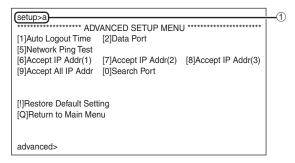
- ① Enter "1" and press the "Enter" key.
- ② Enter numerical value and press the "Enter" key. Display set numerical value (*).

Note

- If the set value is made 0, the Auto Logout function is disabled.
- If an invalid number is entered, an error message ("Parameter Error!") will be displayed and the screen returns to the ADVANCED SETUP MENU.

Entering ADVANCED SETUP MENU ([A]Advanced Setup)

Enters ADVANCED SETUP MENU.



① Enter "a" and press the "Enter" key.

Data Port Setting (ADVANCED[2]Data Port)

Setting of TCP port number. It is possible to set in the range of 1025 to 65535.

(advanced>2)		1_1
Valid range	:1025 to 65535	
Data Port	:10002	
Please Enter	:10005)	-2
(change)	—> 10005	*
(0.00.90)		

① Enter "2" and press the "Enter" key.

② Enter numerical value and press the "Enter" key. Display set numerical value (*).

🗞 Note

• Set according to need. Normally, use with the factory default setting.

Carrying out Network Ping Test

(ADVANCED[5]Network Ping Test)

It is possible to confirm that a network connection between the projector and a computer etc. is working normally.

(advanced>5)	-(1)
Ping Test IP addr :192.168.150.1	0
Please Enter :192.168.150.152	-2
(change) -> 192.168.150.152	— *1
32 bytes from 192.168.150.152: icmp_seq = 1, time = 0 ms	
32 bytes from 192.168.150.152: icmp_seq = 2, time = 0 ms	*0
32 bytes from 192.168.150.152: icmp_seq = 3, time = 0 ms	- 2
32 bytes from 192.168.150.152: icmp_seq = 4, time = 0 ms	

① Enter "5" and press the "Enter" key.

② Enter IP address of device to be tested and press the "Enter" key.

Display entered IP address (*1). Display test result (*2).

Note 🚫

- If the "Enter" key is pressed without entering an IP address, the Ping Test IP address used previously is entered.
- If there is a fault with the connection, "Error: No answer" is displayed after a 5 second retry. In this case, please confirm the settings for the projector and the computer, and contact your network administrator.

Setting of Accept IP Address (ADVANCED[6]Accept IP Addr(1) - [8]Accept IP Addr(3))

It is possible to improve security of the projector by allowing connection from only a prescribed IP address. It is possible to set up to three IP addresses allowing connection to the projector.

(advanced>6)	<u>1</u>
Accept IP Addr(1) : 0.0.0.0	
(Please Enter : 192.168.150.152)	<u> </u> _2
(change) -> 192.168.150.152	<u> </u>

- Enter "6", "7" or "8" and press the "Enter" key.
 Enter numerical value and press the "Enter" key.
- ② Enter numerical value and press the "Enter" key. Display set numerical value (*).

🇞 Note

- To invalidate the Accept IP Addr being currently set, enter "0.0.0.0".
- If there is one or more Accept IP Addr being set, no connections are allowed from IP addresses that are not yet set. They can be cancelled using [9]Accept All IP Addr.

Accepting All IP Addresses (ADVANCED[9]Accept All IP Addr)

Removes IP addresses set with "Accept IP Addr".

(advanced>9)	
Accept All IP Addresses(v/n)? v	
Accept All IF Addresses(y/II) : y	

Enter "9" and press the "Enter" key.
 Enter "y" and press the "Enter" key.

Note 📎

- At the point in time where "y" was entered, the numerical values for Accept IP Addr(1)-(3) are reset to "0.0.0.0".
- If "n" is entered, setting is not altered.

Setting of Search Port (ADVANCED[0]Search Port)

Sets the port number used when searching for the projector from the network.

(advanced>0)	
Please Enter Port Number for Search from Computer.	
Valid range : 1025 to 65535	
Search Port : 5006	
Please Enter : 5004	<u>+</u> 2
(change) -> 5004	<u> </u>

① Enter "0" and press the "Enter" key.

② Enter numerical value and press the "Enter" key. Display set numerical value (*).

Note Note

 Set according to need. Normally, use with the factory default setting.

Return to Default Settings (ADVANCED[!]Restore Default Setting)

Returns all menu setting values to the default state.

[advanced>!]	<u>_</u>
(Restore All Setting to Default(y/n)? y)	
— User Setting Initialized —	
- Oser Setting Initialized -	

Enter "!" and press the "Enter" key.
 Enter "y" and press the "Enter" key.

Note Note

If the values for IP Address, Subnet Mask or Gateway of the projector have been returned to the default settings via Telnet, the computer cannot be connected to the projector depending on the computer's network settings.

Return to Main Menu (ADVANCED[Q]Return to Main Menu)

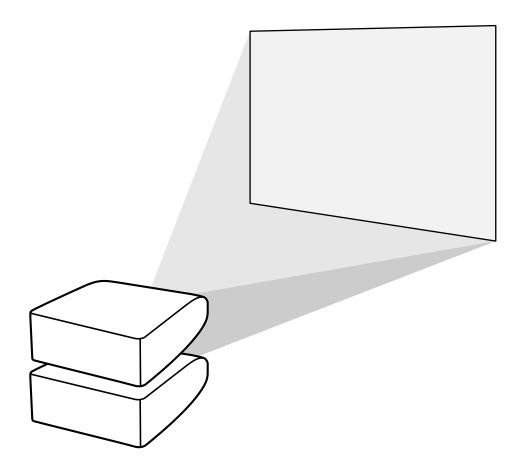
Returns to the main SETUP MENU.

advanced>q			
	SETUP MENU		
[1]IP Address	[2]Subnet Mask	[3]Default Gateway	
[4]User Name	[5]Password		
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client	
[A]Advanced Setup		[D]Disconnect All	
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged	
setup>			

① Enter "q" and press the "Enter" key. Returns to the SETUP MENU.

Stack Projection

The stack projection allows you to increase the brightness of an image by stacking two projectors and projecting same image simultaneously.



Info

• To set up the stack projection, assign a projector as the master and the other projector as the slave and connect the projectors with commercially available LAN cables (UTP cable, Category 5, cross-over type). In this way, you can control the both projectors with one remote control.

VOLUME buttons

RESIZE button

AUTO SYNC button

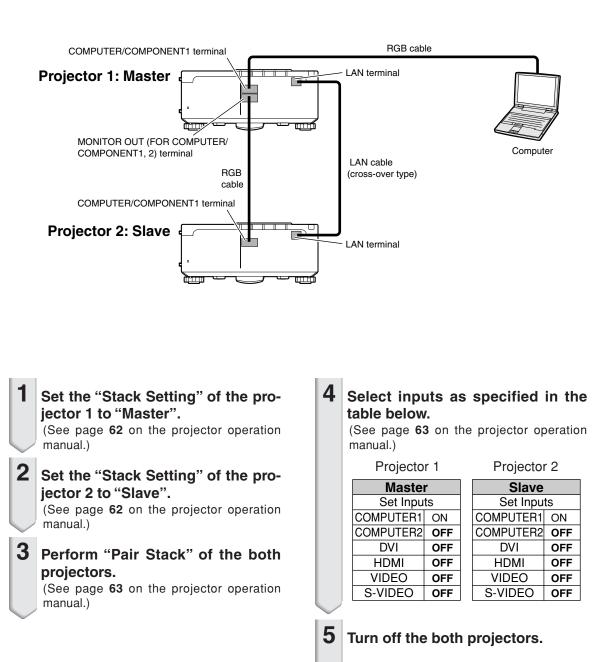
- The buttons below can control both the master and the slave at one time.
 - ON button
 - STANDBY button
 - SHUTTER button
 - COMPUTER1/2, DVI, HDMI, VIDEO, S-VIDEO buttons
- PICTURE MODE button BREAK TIMER button

- MUTE button
- FREEZE button • In normal operation, the projector set as the slave cannot be controlled by the remote control.
- Only while the remote control is connected to the projector with a ø3.5 mm minijack cable (commercially available or available as Sharp service part QCNWGA038WJPZ), the projector set as the slave can be controlled by the remote control.
- Even while the projector is set as the slave, the buttons on the projector can be used.

Setting up the Stack Projection

Basic

This part shows an example for setting up the stack projection of a computer image with two projectors.



- 6 Connect the COMPUTER/COMPO-NENT1 terminal on the projector 1 to the RGB output terminal on the computer using the RGB cable. (See page 24 on the projector operation manual.)
- 7 Connect the MONITOR OUT (FOR COMPUTER/COMPONENT1, 2) terminal on the projector 1 to the COM-PUTER/COMPONENT1 terminal on the projector 2 using an RGB cable. (See page 27 on the projector operation manual.)

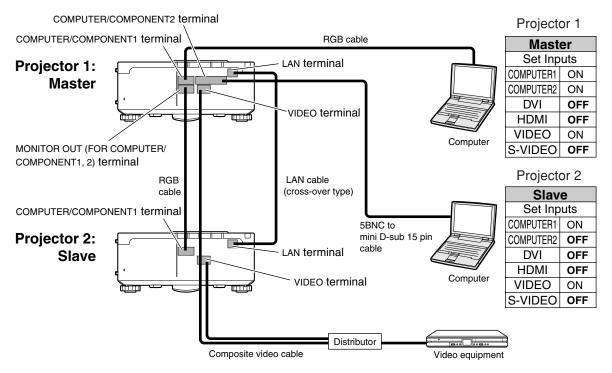
Note

• When connecting an RGB cable to the projector 2, use the input terminal that has the same number as the projector 1. (COMPUTER/COMPONENT1 terminal, in this case)

- 8 Connect the LAN terminal on the projector 1 to the LAN terminal on the projector 2 using a commercially available LAN cable (UTP cable, Category 5, <u>cross-over type</u>).
- **9** Turn on the projectors first, then turn on the computer.

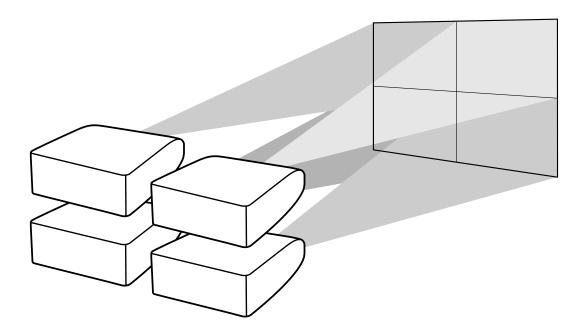
Application

When inputting multiple image sources, refer to the example below.



Video Wall Projection

Usually, a costly image-processing device is required to set up a video wall projection. This projector has built-in video wall capability that doesn't require additional equipment.

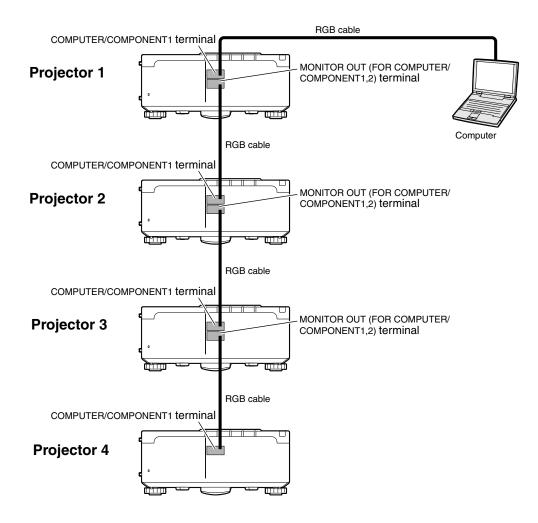


📕 Info

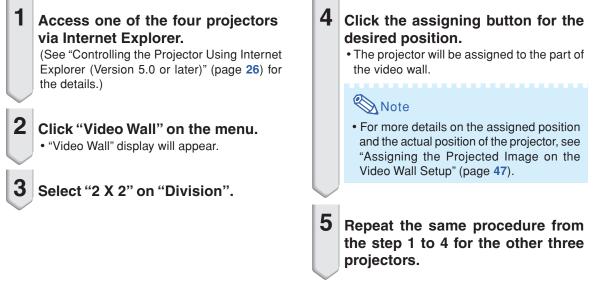
- Before setting up the video wall projection, install Internet Explorer (version 5.0 or later).
- Video wall is not compatible with resolutions higher than SXGA.
- Image quality may deteriorate when picture signals are input through multiple projectors with an RGB cable or an RCA cable in a daisy chain connection.

Setting up the Video Wall Projection Basic

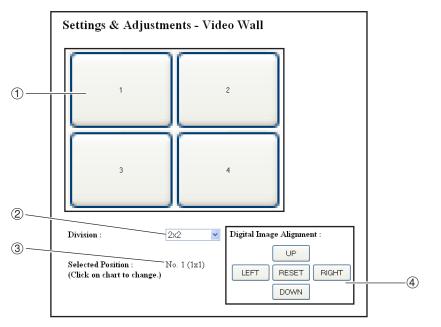
Following is an example of how to build a 2 X 2 video wall using 4 projectors.



Video Wall Projection



That completes the video wall setup. When the same image signal is input to all the projectors, the video wall projection starts.



- ① Selects a position for each projector. (the assigning buttons)
- ② Selects a number of positions where the video wall is divided.
- ③ Displays the current status for the video wall setup.
- Adjusts the position of the projected image horizontally and vertically.

Adjusting the Position Horizontally and Vertically

Click "UP", "DOWN", "LEFT" or "RIGHT" to the position of the projected image.

Returning to the Default Video Wall Setup

1 Select "1 X 1" on "Division".

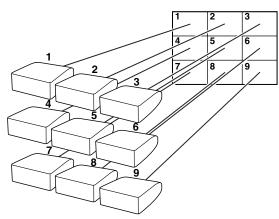
2 Click the assigning button 1.

• The video wall setup will return to the default settings.

Assigning the Projected Image on the Video Wall Setup

Followings are examples for assigning the projected images for the front and rear projections.

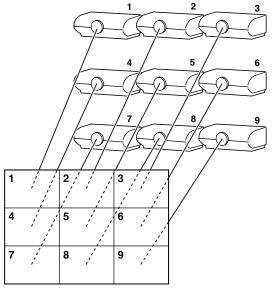
Front Projection



The numbers of the projector refer to the numbers of the projected positions.

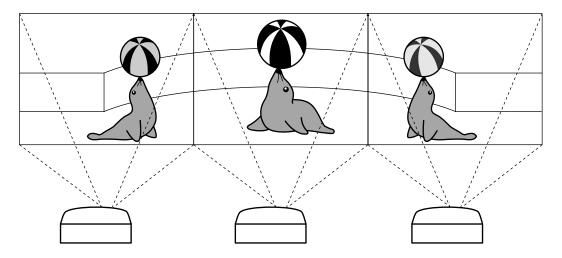
Rear Projection

The numbers of the projector refer to the numbers of the projected positions.

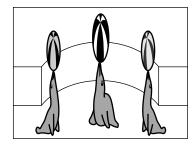


Notes on the Wide Video Wall Projection

Selecting "2 X 1", "3 X 1", "4 X1", "5 X 1", "6 X 1", "7 X 1" or "8 X 1" on "Division" (see page 46) allows you to create the wide video wall.



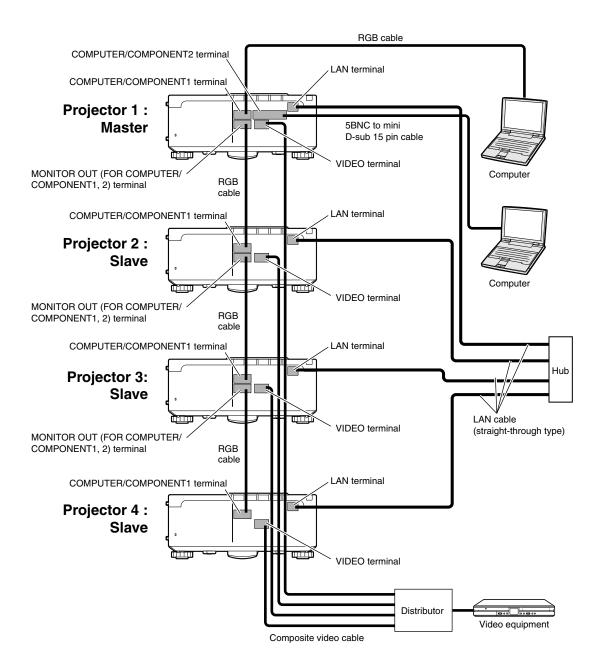
To create the wide video wall with three projectors lining up in single file from left to right (as shown above), select "3 X 1" on "Division", select a position for each projector, and then input the image which width is compressed at 1/3 (as shown below).



Setting up the Video Wall Projection Application

Using "Stack Setting" and "Set Inputs" functions together allows you to control the video wall with one remote control.

This part shows an example of a connecting procedure for inputting the video signals to the video wall based on the example in the previous section.



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Preparation

- Follow the procedure below after setting up the basic connection.
- When "User Name" and "Password" have been set to the projector, reset them before the stack projection setup. To set "User Name" and "Password", use the same user name and password for both of the master and slave projectors. (See page 28.)
- Set "Data Port" with the same number for both of the master and slave projectors. (See page 29.)

Info

• Do not use network software or equipment while it is accessing the projector via the port of the same number used for the master or slave projector, otherwise you cannot properly control multiple projectors with one remote control.

1 Change the TCP/IP settings for the computer as shown below.

(See "Setting an IP Address for the Computer" on page 22 for the details.)

- IP address : 192.168.150.2
- Subnet mask : 255.255.255.0
- Default gateway : (Do not input any values.)

2 Change the TCP/IP settings for each projector as shown below.

(See "Setting up a Network Connection for the Projector" on page 24 for the details.)

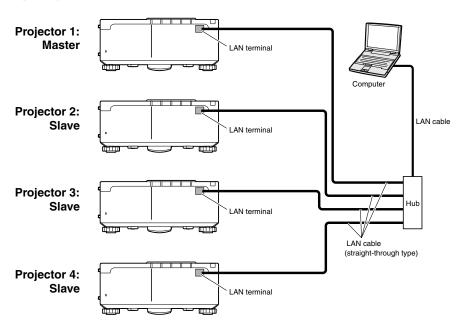
 IP address 	Projector 1	: 192.168.150.3
	Projector 2	: 192.168.150.4
	Projector 3	: 192.168.150.5
	Projector 4	: 192.168.150.6
 Subnet mask 		: 255.255.255.0
 Default gateway 		: 0.0.0.0

Default gateway

Note

- The TCP/IP settings shown are examples to make connections following the diagram.
- When using other equipment in the same network, be careful about the IP address overlap or other network settings.
- · Consult your network administrator for assistance with the network settings.

3 Connect the computer and the projectors as shown below.



Master 🔽

0

0 . 0 . 0 . 0

0 . 0 . 0 . 0

0 . 0 . 0 . 0

0 0 0

> . 0 0

. 0

. 0

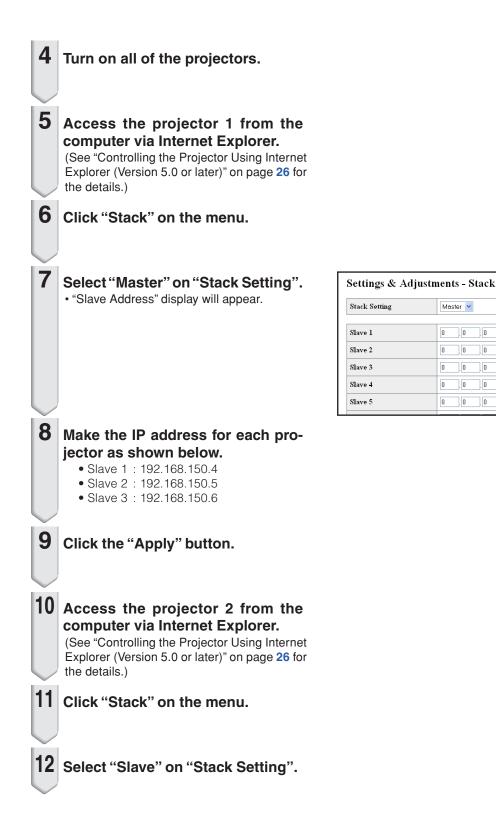
(IP Address)

(IP Address)

(IP Address)

(IP Address)

(IP Address)



13	Repeat the same procedure from the step 10 to 12 for the projector 3 and 4.
14	Select inputs as specified in the table on the right. (See page 63 on the projector operation manual.)
	 Note Set input terminals you will use to "ON". Set input terminals you will not use to "OFF".
15	Turn off all of the projectors.
16	Make connections following the diagram shown on page 49.

17 Turn on the projectors first, then turn on the computers and the video equipment.

Note Note

• Image quality may deteriorate when picture signals are input through multiple projectors with an RGB cable in a daisy chain connection. Projector 1

Projector 2-4

Master		
Set Inputs		
COMPUTER1		
COMPUTER2	ON	
DVI	OFF	
HDMI	OFF	
VIDEO	ON	
S-VIDEO	OFF	

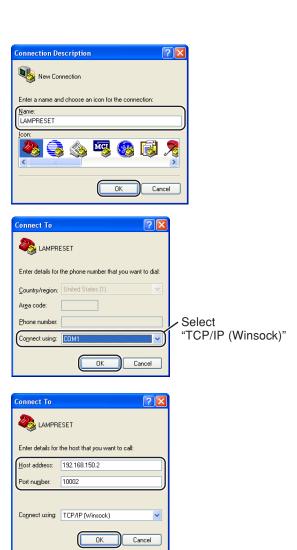
Set Inputs COMPUTER1 ON COMPUTER2 OFF DVI OFF HDMI OFF VIDEO ON S-VIDEO OFF

Resetting the Lamp Timer of the Projector via LAN

When the projector is connected to a network, you can use the communications program to send a command to reset the lamp timer. The example below uses Windows[®] XP as the operating system. When you use Windows Vista[®], use other communications program referring to the following steps, because Windows Vista[®] does not come with HyperTerminal.

- 1 Click "Start" "All Programs" "Accessories" – "Communications" – "HyperTerminal".
 - If you do not have HyperTerminal installed, see the operation manual of your computer.
 - Depending on the settings of your computer, you may be required to enter your area code and other details. Enter the information as required.
- **2** Enter a name in the "Name" field, and click "OK".

- 3 If you are required to enter the area code, enter it in the "Area code" field. From the "Connect using" drop-down menu, select "TCP/IP (Winsock)", and click "OK".
- 4 Enter the IP address of the projector in the "Host address" field (see "TCP/IP" on the "Network" menu of the projector), and enter the data port of the projector in the "Port number" field ("10002" is the factory default setting), and click "OK".



Resetting the Lamp Timer of the Projector via LAN

🗞 LAMPRESET - HyperTerminal 5 Click "Properties" on the "File" <u>Eile E</u>dit <u>V</u>iew <u>C</u>all <u>T</u>ransfer <u>H</u>elp 🗅 🗃 🏐 🥈 👘 🚰 menu. LAMPRESET Properties ? × 6 Click the "Settings" tab, and Connect T Settings Function, arrow, and ctrl keys act as then click "ASCII Setup". Backspace key sends- ⊙ <u>C</u>trl+H ○ <u>D</u>el ○ Ctrl+<u>H</u>, Space, Ctrl+H Emulation: Auto detect ▼ Terminal <u>S</u>etup... Telnet terminal ID: ANSI Backscroll buffer lines: 500 * Play sound when connecting or disconnecting Input Translation... ASCII Setup... OK Cancel ASCII Setup $\mathbf{?}\mathbf{X}$ 7 Select the check boxes next to Send line ends with line feed "Send line ends with line feeds", Echo typed characters locally Line delay: 0 milliseconds. "Echo typed characters locally", Character delay: 0 milliseconds. and "Append line feeds to incoming line ends", and click ASCII Receiving -Append line feeds to incoming line ends "OK". Eorce incoming data to 7-bit ASCII The LAMPRESET Properties window Vrap lines that exceed terminal width appears, click "OK". ОK Cancel 8 If a user name and/or password is set for the projector, enter the user name and password. Scheric Content - Reperterminal 9 Send the lamp reset command. Eile Edit Yiew Call Iransfer Help "LPRE0001" for LAMP 1 🗅 🖆 🍵 🥈 🗈 🎦 😭 "LPRE0002" for LAMP 2 LPRE0001 · These commands can only be sent 0K when the projector is in standby mode. • When "OK" is received, this indicates that the lamp was successfully reset. 10 Close HyperTerminal.

Troubleshooting

Communication cannot be established with the projector

When connecting the projector using serial-connection

- Check that the RS-232C terminal of the projector and a computer or the commercially available controller are connected correctly.
- Check that the RS-232C cable is a cross-over cable.
- Check that the RS-232C port setting for the projector corresponds to the setting for the computer or the commercially available controller.

When connecting the projector to a computer using network (LAN)connection

- Check that the cable's connector is firmly inserted in the LAN terminal of the projector.
- Check that the cable is firmly inserted into a LAN port for a computer or a network device such as a hub.
- Check that the LAN cable is a Category 5 cable.
- Check that the LAN cable is a cross-over cable when connecting the projector to a computer directly.
- Check that the LAN cable is a straight-through cable when connecting the projector with a network device such as a hub.
- Check that the power supply is turned on for the network device such as a hub between the projector and a computer.

Check the network settings for the computer and the projector

- Check the following network settings for the projector.
 - IP Address
 - Check that the IP address for the projector is not duplicated on the network.
 - Subnet Mask

When the gateway setting for the projector is "0.0.0.0" (Not Used), or the gateway setting for the projector and the default gateway setting for the computer are the same:

- The subnet masks for the projector and the computer should be the same.
- The IP address parts shown by the subnet mask for the projector and the computer should be the same.

(Example)

When the IP address is "192.168.150.2" and the subnet mask is "255.255.255.0" for the projector, the IP address for the computer should be "192.168.150.X" (X=3-254) and the subnet mask should be "255.255.255.0".

Gateway

When the gateway setting for the projector is "0.0.0.0" (Not Used), or the gateway setting for the projector and the default gateway setting for the computer are the same:

- The subnets for the projector and the computer should be the same.
- The IP address parts shown by the subnet mask for the projector and the computer should be the same.

(Example)

When the IP address is "192.168.150.2" and the subnet mask is "255.255.255.0" for the projector, the IP address for the computer should be "192.168.150.X" (X=3-254) and the subnet mask should be "255.255.255.0".

Data Port

Other computers should not use the data port of the projector.

The data port should be used for communication during the stack projection.

Note 📎

 The factory default settings for the projector are as follows: DHCP Client : OFF

IP address : 192.168.150.2

Subnet mask : 255.255.255.0

Gateway address : 0.0.0.0 (Not Used)

• For network settings for the projector, refer to page 24.

Troubleshooting

- Take the following steps for checking the network settings for the computer.
 - 1. Open a command prompt.
 - In the case of Windows[®] 2000: click "start" → "Programs" → "Accessories" → "Command Prompt" in order.
 - In the case of Windows[®] XP, Windows Vista[®]: click "start" → "All Programs" → "Accessories"
 → "Command Prompt" in order.
 - 2. After launching the command prompt, enter the command "ipconfig", and press the "Enter" key.

Note Note

• Communication may not be established even after carrying out the network settings for the computer. In such cases, restart your computer.

C:\>ipconfig

Command Prompt	_ _
C:∖>ipconfig	
Windows IP Configuration	
Ethernet adapter Local Area Connection:	
Connection-specific DNS Suffix .: IPv4 Address: 192.168.150.3	
Subnet Mask 255.255.	

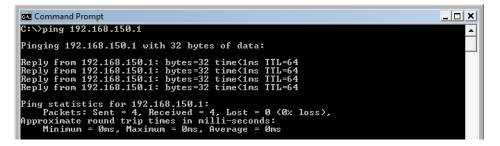
Note 📎

· Usage examples of ipconfig

C:\>ipconfig /? displays how to use "ipconfig.exe". C:\>ipconfig displays the set IP address, subnet mask and default gateway. C:\>ipconfig /all displays all the setting information related to TCP/IP.

3. To return to the Windows® screen, enter "exit" and press the "Enter" key.

- Check if the "TCP/IP" protocol is operating correctly using the "PING" command. Also, check
 if an IP address is set.
 - 1. Open a command prompt.
 - In the case of Windows[®] 2000: click "start" → "Programs" → "Accessories" → "Command Prompt" in order.
 - In the case of Windows[®] XP, Windows Vista[®]: click "start" → "All Programs" → "Accessories"
 → "Command Prompt" in order.
 - After launching the command prompt enter a command "PING". Entry example C:\>ping XXX.XXX.XXXX "XXX.XXX.XXX.XXX" should be entered with an IP address to be connected to, such as the projector.
 - When connecting normally, the display will be as follows. (The screen may be slightly different depending on the OS type.) <Example> when the IP address connected to is "192.168.150.1"



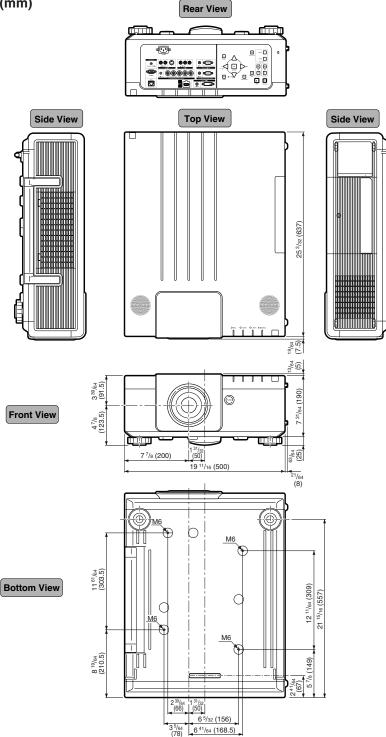
- 4. When a command cannot be sent, "Request time out" will be displayed. Check the network setting again.
- If communication can still not be established properly, contact your network administrator.
- 5. To return to the Windows® screen, enter "exit" and then press the "Enter" key.

A connection cannot be made because you have forgotten your user name or your password.

- Initialize the settings. (See page 65 of the projector's operation manual.)
- After the initialization, carry out setting again.

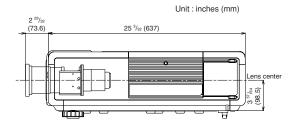


Units: inches (mm)

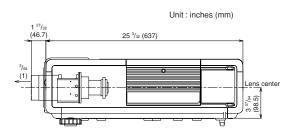


Projector and Lens Dimensions

[When AN-P8EX is installed]

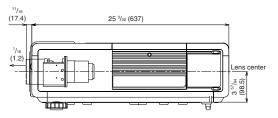


[When AN-P12EX is installed]

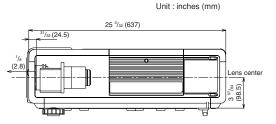


[When AN-P15EZ is installed]

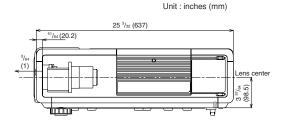
Unit : inches (mm)



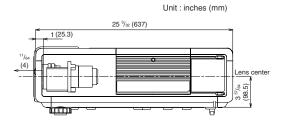
[When AN-P18EZ is installed]



[When AN-P23EZ is installed]



[When AN-P30EZ is installed]



[When AN-P45EZ is installed]

