

DATA PROJECTOR MODEL XG-PH80W-N XG-PH80X-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

- 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 49 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

XG-PH80W-N

The graph below is for 100-inch (254 cm) screen with 16:10 normal mode.

Screen



XG-PH80X-N

The graph below is for 100-inch (254 cm) screen with 4:3 normal mode. **Screen**



Standard Zoom Lens (AN-PH818EZ: For XG-PH80W-N)

F1.7-1.9, f = 26-34 mm

16:10 Signal Input (Normal Mode)

Pic	ture (Screen) s	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 the image
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
500" (1270 cm)	1077 cm (424")	673 cm (265")	19.2 m (62' 11")	25.3 m (83' 0")	-336.6 cm (-132 1/2")	0.0 cm (0")	± 107.7 cm (42 ¹³ / ₃₂ ")
300" (762 cm)	646 cm (254")	404 cm (159")	11.5 m (37' 9")	15.2 m (49' 10")	-201.9 cm (-79 1/2")	0.0 cm (0")	± 64.6 cm (25 ⁷ / ₁₆ ")
200" (508 cm)	431 cm (170")	269 cm (106")	7.7 m (25' 2")	10.1 m (33' 3")	-134.6 cm (-53")	0.0 cm (0")	± 43.1 cm (16 61/64")
150" (381 cm)	323 cm (127")	202 cm (79")	5.8 m (18' 10")	7.6 m (24' 11")	-101.0 cm (-39 ³ / ₄ ")	0.0 cm (0")	± 32.3 cm (12 ²³ / ₃₂ ")
100" (254 cm)	215 cm (85")	135 cm (53")	3.8 m (12' 7")	5.1 m (16' 7")	-67.3 cm (-26 1/2")	0.0 cm (0")	± 21.5 cm (8 ³¹ / ₆₄ ")
80" (203 cm)	172 cm (68")	108 cm (42")	3.1 m (10' 1")	4.0 m (13' 3")	-53.8 cm (-21 ¹³ / ₆₄ ")	0.0 cm (0")	± 17.2 cm (6 ²⁵ / ₃₂ ")
70" (178 cm)	151 cm (59")	94 cm (37")	2.7 m (8' 10")	3.5 m (11' 8")	-47.1 cm (-18 ³⁵ / ₆₄ ")	0.0 cm (0")	± 15.1 cm (5 ¹⁵ / ₁₆ ")
60" (152 cm)	129 cm (51")	81 cm (32")	2.3 m (7' 7")	3.0 m (10' 0")	-40.4 cm (-15 ²⁹ / ₃₂ ")	0.0 cm (0")	± 12.9 cm (5 ³ / ₃₂ ")
40" (102 cm)	86 cm (34")	54 cm (21")	1.5 m (5' 0")	2.0 m (6' 8")	-26.9 cm (-10 ¹⁹ / ₃₂ ")	0.0 cm (0")	± 8.6 cm (3 ²⁵ / ₆₄ ")

4:3 Signal Input (Normal Mode)

Pic	ture (Screen) s	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 the image
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
300" (762 cm)	610 cm (240")	457 cm (180")	13.0 m (42' 9")	17.2 m (56' 5")	-228.6 cm (-90")	0.0 cm (0")	± 69.0 cm (27 ¹¹ / ₆₄ ")
200" (508 cm)	406 cm (160")	305 cm (120")	8.7 m (28' 6")	11.5 m (37' 7")	-152.4 cm (-60")	0.0 cm (0")	± 46.0 cm (18 ⁷ / ₆₄ ")
150" (381 cm)	305 cm (120")	229 cm (90")	6.5 m (21' 4")	8.6 m (28' 2")	-114.3 cm (-45")	0.0 cm (0")	± 34.5 cm (13 ³⁷ / ₆₄ ")
120" (305 cm)	244 cm (96")	183 cm (72")	5.2 m (17' 1")	6.9 m (22' 7")	-91.4 cm (-36")	0.0 cm (0")	± 27.6 cm (10 ⁷ / ₈ ")
100" (254 cm)	203 cm (80")	152 cm (60")	4.3 m (14' 3")	5.7 m (18' 10")	-76.2 cm (-30")	0.0 cm (0")	± 23.0 cm (9 1/16")
80" (203 cm)	163 cm (64")	122 cm (48")	3.5 m (11' 5")	4.6 m (15' 1")	-61.0 cm (-24")	0.0 cm (0")	± 18.4 cm (7 1/4")
60" (152 cm)	122 cm (48")	91 cm (36")	2.6 m (8' 7")	3.4 m (11' 3")	-45.7 cm (-18")	0.0 cm (0")	± 13.8 cm (5 ⁷ / ₁₆ ")

When using the projector with screen sizes not listed in the above charts, calculate the values according to the formulas.

	1	6:10 Signal	4:3 Signal	
	[m/cm]	[Feet/inches]	[m/cm]	[Feet/inches]
L1: Minimum projection distance (m/ft)	0.03834χ	0.03834χ / 0.3048	0.0434χ	0.0434χ / 0.3048
L2: Maximum projection distance (m/ft)	0.05062χ	0.05062χ / 0.3048	0.05731χ	0.05731χ / 0.3048
H1: Lower distance from the lens center to the bottom of the image (cm/in)	-0.6731χ	-0.6731% / 2.54	-0.762X	-0.762X / 2.54
H2:Upper distance from the lens center to the bottom of the image (cm/in)	Οχ	0χ / 2.54	Οχ	0χ / 2.54
W: Distance from the lens center to the center of the image (cm/in)	±0.21539χ	±0.21539% / 2.54	±0.23004χ	±0.23004% / 2.54

 χ : Picture diagonal size: 40" – 500" (16:10)

60" - 300" (4:3)

- Allow a margin of error in the values in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Standard Zoom Lens (AN-PH818EZ: For XG-PH80X-N)

F1.7-1.9, f = 26-34 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 the image
Diag. [X]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
500" (1270 cm)	1016 cm (400")	762 cm (300'')	18.1 m (59' 4")	23.9 m (78' 4")	-381.0 cm (-150")	0.0 cm (0")	± 101.6 cm (40")
300" (762 cm)	610 cm (240'')	457 cm (180'')	10.9 m (35' 7")	14.3 m (47' 0")	-228.6 cm (-90")	0.0 cm (0")	± 61.0 cm (24")
200" (508 cm)	406 cm (160'')	305 cm (120'')	7.2 m (23' 9")	9.6 m (31' 4")	-152.4 cm (-60")	0.0 cm (0")	± 40.6 cm (16")
150" (381 cm)	305 cm (120'')	229 cm (90'')	5.4 m (17' 10")	7.2 m (23' 6")	-114.3 cm (-45")	0.0 cm (0")	± 30.5 cm (12")
100" (254 cm)	203 cm (80'')	152 cm (60'')	3.6 m (11' 10")	4.8 m (15' 8")	-76.2 cm (-30")	0.0 cm (0")	± 20.3 cm (8")
80" (203 cm)	163 cm (64'')	122 cm (48'')	2.9 m (9' 6")	3.8 m (12' 6")	-61.0 cm (-24")	0.0 cm (0")	± 16.3 cm (6 ¹³ / ₃₂ ")
70" (178 cm)	142 cm (56'')	107 cm (42'')	2.5 m (8' 4")	3.3 m (11' 0")	-53.3 cm (-21")	0.0 cm (0")	± 14.2 cm (5 ¹⁹ / ₃₂ ")
60" (152 cm)	122 cm (48'')	91 cm (36'')	2.2 m (7' 1")	2.9 m (9' 5")	-45.7 cm (-18")	0.0 cm (0")	± 12.2 cm (4 ⁵¹ / ₆₄ ")
40" (102 cm)	81 cm (32'')	61 cm (24'')	1.4 m (4' 9")	1.9 m (6' 3")	-30.5 cm (-12")	0.0 cm (0")	± 8.1 cm (3 ¹³ / ₆₄ ")

16:9 Signal Input (Normal Mode)

Pic	Picture (Screen) size		Projection	Projection distance [L] Distance from the lens center to the bottom of the image [H]			Distance from the lens center to the center of the image
Diag. [X]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
300" (762 cm)	664 cm (261'')	374 cm (147'')	11.8 m (38' 9")	15.6 m (51' 2")	-186.8 cm (-73 ¹⁷ / ₃₂ ")	62.3 cm (24 ³³ / ₆₄ ")	± 66.4 cm (26 ⁹ / ₆₄ ")
200" (508 cm)	443 cm (174'')	249 cm (98'')	7.9 m (25' 10")	10.4 m (34' 2")	-124.5 cm (-49 1/32")	41.5 cm (16 ¹¹ / ₃₂ ")	± 44.3 cm (17 ⁷ / ₁₆ ")
150" (381 cm)	332 cm (131'')	187 cm (74'')	5.9 m (19' 5")	7.8 m (25' 7")	-93.4 cm (-36 ⁴⁹ / ₆₄ ")	31.1 cm (12 ¹ / ₄ ")	± 33.2 cm (13 ⁵ / ₆₄ ")
120" (305 cm)	266 cm (105'')	149 cm (59'')	4.7 m (15' 6")	6.2 m (20' 6")	-74.7 cm (-29 ²⁷ / ₆₄ ")	24.9 cm (9 ¹³ / ₁₆ ")	± 26.6 cm (10 ²⁹ / ₆₄ ")
100" (254 cm)	221 cm (87'')	125 cm (49'')	3.9 m (12' 11")	5.2 m (17' 1")	-62.3 cm (-24 ³³ / ₆₄ ")	20.8 cm (8 ¹¹ / ₆₄ ")	± 22.1 cm (8 ²³ / ₃₂ ")
80" (203 cm)	177 cm (70'')	100 cm (39'')	3.2 m (10' 4")	4.2 m (13' 8")	-49.8 cm (-19 ³⁹ / ₆₄ ")	16.6 cm (6 ¹⁷ / ₃₂ ")	± 17.7 cm (6 ³¹ / ₃₂ ")
60" (152 cm)	133 cm (52'')	75 cm (29'')	2.4 m (7' 9")	3.1 m (10' 3")	-37.4 cm (-14 45/64")	12.5 cm (4 ²⁹ / ₃₂ ")	± 13.3 cm (5 15/64")

When using the projector with screen sizes not listed in the above charts, calculate the values according to the formulas.

		4:3 Signal	16:9 Signal	
	[m/cm]	[Feet/inches]	[m/cm]	[Feet/inches]
L1: Minimum projection distance (m/ft)	0.03617χ	0.03617χ / 0.3048	0.03941χ	0.03941χ / 0.3048
L2: Maximum projection distance (m/ft)	0.04775χ	0.04775χ / 0.3048	0.05202χ	0.05202χ / 0.3048
H1: Lower distance from the lens center to the bottom of the image (cm/in)	-0.762X	-0.762χ / 2.54	-0.62263X	-0.62263% / 2.54
H2:Upper distance from the lens center to the bottom of the image (cm/in)	Οχ	0χ / 2.54	0.20754χ	0.20754χ / 2.54
W: Distance from the lens center to the center of the image (cm/in)	±0.2032χ	±0.2032% / 2.54	±0.22138χ	±0.22138% / 2.54

 χ : Picture diagonal size: 40" – 500" (4:3)

60" - 300" (16:9)

- Allow a margin of error in the values in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Fixed Wide Lens (AN-PH808EX: For XG-PH80W-N)

F2.0, f = 11.4 mm

16:10 Signal Input (Normal Mode)

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 the image [W]	
Diag. [½]	Width	Height	[L]		
200" (508 cm)	431 cm (170'')	269 cm (106'')	3.3 m (10' 11")	-134.6 cm (-53")	± 43.1 cm (16 ⁶¹ / ₆₄ ")
150" (381 cm)	323 cm (127'')	202 cm (79'')	2.5 m (8' 2")	-101.0 cm (-39 ³ / ₄ ")	± 32.3 cm (12 ²³ / ₃₂ ")
100" (254 cm)	215 cm (85'')	135 cm (53'')	1.7 m (5' 6")	-67.3 cm (-26 1/2")	± 21.5 cm (8 ³¹ / ₆₄ ")
50'' (127 cm)	108 cm (42'')	67 cm (26'')	0.8 m (2' 9")	-33.7 cm (-13 ¹ / ₄ ")	± 10.8 cm (4 ¹⁵ / ₆₄ ")

4:3 Signal Input (Normal Mode)

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 the image [W]	
Diag. [½]	Width	Height	[L]		
150" (381 cm)	305 cm (120'')	229 cm (90'')	2.8 m (9' 3")	-114.3 cm (-45")	± 34.5 cm (13 ³⁷ / ₆₄ ")
100" (254 cm)	203 cm (80")	152 cm (60'')	1.9 m (6' 2")	-76.2 cm (-30")	± 23.0 cm (9 ¹ / ₁₆ ")
80" (203 cm)	163 cm (64'')	122 cm (48'')	1.5 m (4' 11")	-61.0 cm (-24")	± 18.4 cm (7 ¹ / ₄ ")

When using the projector with screen sizes not listed in the above charts, calculate the values according to the formulas.

	1	6:10 Signal	4:3 Signal	
	[m/cm]	[Feet/inches]	[m/cm]	[Feet/inches]
L: Projection distance (m/ft)	0.01667χ	0.01667% / 0.3048	0.01887χ	0.01887% / 0.3048
H: Distance from the lens center to the bottom of the image (cm/in)	-0.6731χ	-0.6731x / 2.54	-0.762χ	-0.762% / 2.54
W: Distance from the lens center to the center of the image (cm/in)	±0.21539χ	±0.21539χ / 2.54	±0.23004χ	±0.23004% / 2.54

χ : Picture diagonal size: 50" – 200" (16:10) 80" – 150" (4:3)

- Allow a margin of error in the values in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Fixed Wide Lens (AN-PH808EX: For XG-PH80X-N)

F2.0, f = 11.4 mm

4:3 Signal Input (Normal Mode)

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 the image [W]	
Diag. [½]	Width	Height	[L]		
200" (508 cm)	406 cm (160'')	305 cm (120'')	3.1 m (10' 4")	-152.4 cm (-60")	± 40.6 cm (16")
150'' (381 cm)	305 cm (120'')	229 cm (90'')	2.4 m (7' 9")	-114.3 cm (-45")	± 30.5 cm (12")
100" (254 cm)	203 cm (80'')	152 cm (60'')	1.6 m (5' 2")	-76.2 cm (-30")	± 20.3 cm (8")
50'' (127 cm)	102 cm (40'')	76 cm (30'')	0.8 m (2' 7")	-38.1 cm (-15")	± 10.2 cm (4")

16:9 Signal Input (Normal Mode)

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 the image [W]	
Diag. [½]	Width	Height	[L]		
150" (381 cm)	332 cm (131'')	187 cm (74'')	2.5 m (8' 4")	-93.4 cm (-36 ⁴⁹ / ₆₄ ")	± 33.2 cm (13 ⁵ / ₆₄ ")
100" (254 cm)	221 cm (87'')	125 cm (49'')	1.7 m (5' 6")	-62.3 cm (-24 ³³ / ₆₄ ")	± 22.1 cm (8 ²³ / ₃₂ ")
80" (203 cm)	177 cm (70")	100 cm (39'')	1.3 m (4' 4")	-49.8 cm (-19 ³⁹ / ₆₄ ")	± 17.7 cm (6 ³¹ / ₃₂ ")

When using the projector with screen sizes not listed in the above charts, calculate the values according to the formulas.

		4:3 Signal	16:9 Signal		
	[m/cm]	[Feet/inches]	[m/cm]	[Feet/inches]	
L: Projection distance (m/ft)	0.01573χ	0.01573% / 0.3048	0.01714χ - 0.042	(0.01714½ - 0.042) / 0.3048	
H: Distance from the lens center to the bottom of the image (cm/in)	-0.762χ	-0.762X / 2.54	-0.62263X	-0.62263X / 2.54	
W: Distance from the lens center to the center of the image (cm/in)	±0.2032χ	±0.2032% / 2.54	±0.22138χ	±0.22138% / 2.54	

 χ : Picture diagonal size: 50" – 200" (4:3) 80" – 150" (16:9)

- Allow a margin of error in the values in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Wide-zoom Lens (AN-PH814EZ: For XG-PH80W-N)

F1.81-2.29, f = 19.3-25.8 mm

16:10 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the bottom of	Distance from the lens center to the center of the image		
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
500" (1270 cm)	1077 cm (424")	673 cm (265")	14.3 m (47' 0")	19.3 m (63' 3")	-336.6 cm (-132 1/2")	0.0 cm (0")	± 107.7 cm (42 ¹³ / ₃₂ ")
300" (762 cm)	646 cm (254")	404 cm (159")	8.6 m (28' 2")	11.6 m (37' 11")	-201.9 cm (-79 1/2")	0.0 cm (0")	± 64.6 cm (25 ⁷ / ₁₆ ")
200" (508 cm)	431 cm (170")	269 cm (106")	5.7 m (18' 10")	7.7 m (25' 4")	-134.6 cm (-53")	0.0 cm (0")	± 43.1 cm (16 ⁶¹ / ₆₄ ")
100" (254 cm)	215 cm (85")	135 cm (53")	2.9 m (9' 5")	3.9 m (12' 8")	-67.3 cm (-26 1/2")	0.0 cm (0")	± 21.5 cm (8 ³¹ / ₆₄ ")
80" (203 cm)	172 cm (68")	108 cm (42")	2.3 m (7' 6")	3.1 m (10' 1")	-53.8 cm (-21 ¹³ / ₆₄ ")	0.0 cm (0")	± 17.2 cm (6 ²⁵ / ₃₂ ")
70" (178 cm)	151 cm (59")	94 cm (37")	2.0 m (6' 7")	2.7 m (8' 10")	-47.1 cm (-18 ³⁵ / ₆₄ ")	0.0 cm (0")	± 15.1 cm (5 ¹⁵ / ₁₆ ")
60" (152 cm)	129 cm (51")	81 cm (32")	1.7 m (5' 8")	2.3 m (7' 7")	-40.4 cm (-15 ²⁹ / ₃₂ ")	0.0 cm (0")	± 12.9 cm (5 ³ / ₃₂ ")
40" (102 cm)	86 cm (34")	54 cm (21")	1.1 m (3' 9")	1.5 m (5' 1")	-26.9 cm (-10 ¹⁹ / ₃₂ ")	0.0 cm (0")	± 8.6 cm (3 ²⁵ / ₆₄ ")

4:3 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the bottom of	Distance from the lens center to the center of the image		
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
300" (762 cm)	610 cm (240")	457 cm (180")	9.7 m (31' 11")	13.1 m (43' 0")	-228.6 cm (-90")	0.0 cm (0")	± 69.0 cm (27 ¹¹ / ₆₄ ")
200" (508 cm)	406 cm (160")	305 cm (120")	6.5 m (21' 3")	8.7 m (28' 8")	-152.4 cm (-60")	0.0 cm (0")	± 46.0 cm (18 ⁷ / ₆₄ ")
150" (381 cm)	305 cm (120")	229 cm (90")	4.9 m (16' 0")	6.5 m (21' 6")	-114.3 cm (-45")	0.0 cm (0")	± 34.5 cm (13 ³⁷ / ₆₄ ")
100" (254 cm)	203 cm (80")	152 cm (60")	3.2 m (10' 8")	4.4 m (14' 4")	-76.2 cm (-30")	0.0 cm (0")	± 23.0 cm (9 ¹ / ₁₆ ")
80" (203 cm)	163 cm (64")	122 cm (48")	2.6 m (8' 6")	3.5 m (11' 5")	-61.0 cm (-24")	0.0 cm (0")	± 18.4 cm (7 ¹ / ₄ ")
60" (152 cm)	122 cm (48")	91 cm (36")	1.9 m (6' 5")	2.6 m (8' 7")	-45.7 cm (-18")	0.0 cm (0")	± 13.8 cm (5 ⁷ / ₁₆ ")

When using the projector with screen sizes not listed in the above charts, calculate the values according to the formulas.

	1	6:10 Signal	4:3 Signal		
	[m/cm]	[Feet/inches]	[m/cm]	[Feet/inches]	
L1: Minimum projection distance (m/ft)	0.02865χ	0.02865χ / 0.3048	0.03243χ	0.03243χ / 0.3048	
L2: Maximum projection distance (m/ft)	0.03856χ	0.03856χ / 0.3048	0.04365χ	0.04365χ / 0.3048	
H1: Lower distance from the lens center to the bottom of the image (cm/in)	-0.6731X	-0.6731% / 2.54	-0.762X	-0.762% / 2.54	
H2:Upper distance from the lens center to the bottom of the image (cm/in)	Οχ	0χ / 2.54	Οχ	0χ/2.54	
W: Distance from the lens center to the center of the image (cm/in)	±0.21539χ	±0.21539% / 2.54	±0.23004χ	±0.23004% / 2.54	

 χ : Picture diagonal size: 40" – 500" (16:10)

60" – 300" (4:3)

Note 📎

- Allow a margin of error in the values in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Wide-zoom Lens (AN-PH814EZ: For XG-PH80X-N)

F1.81-2.29, f = 19.3-25.8 mm

4:3 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the bottom of	Distance from the lens center to the center of the image		
Diag. [X]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
500" (1270 cm)	1016 cm (400'')	762 cm (300'')	13.5 m (44' 4")	18.2 m (59' 8")	-381.0 cm (-150")	0.0 cm (0")	± 101.6 cm (40")
300" (762 cm)	610 cm (240")	457 cm (180'')	8.1 m (26' 7")	10.9 m (35' 10")	-228.6 cm (-90")	0.0 cm (0")	± 61.0 cm (24")
200" (508 cm)	406 cm (160'')	305 cm (120'')	5.4 m (17' 9")	7.3 m (23' 10")	-152.4 cm (-60")	0.0 cm (0")	± 40.6 cm (16")
100" (254 cm)	203 cm (80'')	152 cm (60'')	2.7 m (8' 10")	3.6 m (11' 11")	-76.2 cm (-30")	0.0 cm (0")	± 20.3 cm (8")
80" (203 cm)	163 cm (64'')	122 cm (48'')	2.2 m (7' 1")	2.9 m (9' 7")	-61.0 cm (-24")	0.0 cm (0")	± 16.3 cm (6 ¹³ / ₃₂ ")
70" (178 cm)	142 cm (56'')	107 cm (42'')	1.9 m (6' 2")	2.5 m (8' 4")	-53.3 cm (-21")	0.0 cm (0")	± 14.2 cm (5 ¹⁹ / ₃₂ ")
60" (152 cm)	122 cm (48'')	91 cm (36'')	1.6 m (5' 4")	2.2 m (7' 2")	-45.7 cm (-18")	0.0 cm (0")	± 12.2 cm (4 ⁵¹ / ₆₄ ")
40" (102 cm)	81 cm (32'')	61 cm (24'')	1.1 m (3' 7")	1.5 m (4' 9")	-30.5 cm (-12")	0.0 cm (0")	± 8.1 cm (3 ¹³ / ₆₄ ")

16:9 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the bottom of	Distance from the lens center to the center of the image		
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
300" (762 cm)	664 cm (261'')	374 cm (147'')	8.8 m (29' 0")	11.9 m (39' 0")	-186.8 cm (-73 17/32")	62.3 cm (24 33/64")	± 66.4 cm (26 ⁹ / ₆₄ ")
200" (508 cm)	443 cm (174'')	249 cm (98'')	5.9 m (19' 4")	7.9 m (26' 0")	-124.5 cm (-49 1/32")	41.5 cm (16 11/32")	± 44.3 cm (17 ⁷ / ₁₆ ")
150" (381 cm)	332 cm (131'')	187 cm (74'')	4.4 m (14' 6")	5.9 m (19' 6")	-93.4 cm (-36 49/64")	31.1 cm (12 1/4")	± 33.2 cm (13 ⁵ / ₆₄ ")
100" (254 cm)	221 cm (87'')	125 cm (49'')	2.9 m (9' 8")	4.0 m (13' 0")	-62.3 cm (-24 33/64")	20.8 cm (8 11/64")	± 22.1 cm (8 ²³ / ₃₂ ")
80" (203 cm)	177 cm (70'')	100 cm (39'')	2.4 m (7' 9")	3.2 m (10' 5")	-49.8 cm (-19 39/64")	16.6 cm (6 ¹⁷ / ₃₂ ")	± 17.7 cm (6 31/32")
60" (152 cm)	133 cm (52'')	75 cm (29'')	1.8 m (5' 10")	2.4 m (7' 10")	-37.4 cm (-14 ⁴⁵ / ₆₄ ")	12.5 cm (4 29/32")	± 13.3 cm (5 ¹⁵ / ₆₄ ")

When using the projector with screen sizes not listed in the above charts, calculate the values according to the formulas.

		4:3 Signal	16:9 Signal		
	[m/cm]	[Feet/inches]	[m/cm]	[Feet/inches]	
L1: Minimum projection distance (m/ft)	0.02703χ	0.02703χ / 0.3048	0.02945χ	0.02945χ / 0.3048	
L2: Maximum projection distance (m/ft)	0.03637χ	0.03637% / 0.3048	0.03962χ	0.03962χ / 0.3048	
H1: Lower distance from the lens center to the bottom of the image (cm/in)	-0.762X	-0.762% / 2.54	-0.62263X	-0.62263% / 2.54	
H2:Upper distance from the lens center to the bottom of the image (cm/in)	Οχ	0χ / 2.54	0.20754χ	0.20754% / 2.54	
W: Distance from the lens center to the center of the image (cm/in)	±0.2032%	±0.2032X / 2.54	±0.22138χ	±0.22138% / 2.54	

 χ : Picture diagonal size: 40" – 500" (4:3)

60" – 300" (16:9)

- Allow a margin of error in the values in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Tele-zoom Lens (AN-PH823EZ: For XG-PH80W-N)

F2.1-2.9, f = 32-63 mm

16:10 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from tl the bottom of	Distance from the lens center to the center of the image		
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
500" (1270 cm)	1077 cm (424")	673 cm (265")	23.9 m (78' 5")	47.7 m (156' 6")	-336.6 cm (-132 1/2")	0.0 cm (0")	± 107.7 cm (42 ¹³ / ₃₂ ")
300" (762 cm)	646 cm (254")	404 cm (159")	14.3 m (47' 1")	28.6 m (93' 11")	-201.9 cm (-79 1/2")	0.0 cm (0")	± 64.6 cm (25 ⁷ / ₁₆ ")
200" (508 cm)	431 cm (170")	269 cm (106")	9.6 m (31' 5")	19.1 m (62' 7")	-134.6 cm (-53")	0.0 cm (0")	± 43.1 cm (16 ⁶¹ / ₆₄ ")
150" (381 cm)	323 cm (127")	202 cm (79")	7.2 m (23' 6")	14.3 m (47' 0")	-101.0 cm (-39 ³ / ₄ ")	0.0 cm (0")	± 32.3 cm (12 23/32")
100" (254 cm)	215 cm (85")	135 cm (53")	4.8 m (15' 8")	9.5 m (31' 4")	-67.3 cm (-26 1/2")	0.0 cm (0")	± 21.5 cm (8 ³¹ / ₆₄ ")
80" (203 cm)	172 cm (68")	108 cm (42")	3.8 m (12' 7")	7.6 m (25' 1")	-53.8 cm (-21 ¹³ / ₆₄ ")	0.0 cm (0")	± 17.2 cm (6 ²⁵ / ₃₂ ")
60" (152 cm)	129 cm (51")	81 cm (32")	2.9 m (9' 5")	5.7 m (18' 9")	-40.4 cm (-15 ²⁹ / ₃₂ ")	0.0 cm (0")	± 12.9 cm (5 ³ / ₃₂ ")
40" (102 cm)	86 cm (34")	54 cm (21")	1.9 m (6' 3")	3.8 m (12' 6")	-26.9 cm (-10 ¹⁹ / ₃₂ ")	0.0 cm (0")	± 8.6 cm (3 ²⁵ / ₆₄ ")

4:3 Signal Input (Normal Mode)

Pi	Picture (Screen) size		Projection distance [L]		Distance from t the bottom o	Distance from the lens center to the center of the image	
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
300" (762 cm)	610 cm (240")	457 cm (180")	16.2 m (53' 3")	32.4 m (106' 4")	-228.6 cm (-90")	0.0 cm (0")	± 69.0 cm (27 ¹¹ / ₆₄ ")
200" (508 cm)	406 cm (160")	305 cm (120")	10.8 m (35' 6")	21.6 m (70' 11")	-152.4 cm (-60")	0.0 cm (0")	± 46.0 cm (18 ⁷ / ₆₄ ")
150" (381 cm)	305 cm (120")	229 cm (90")	8.1 m (26' 8")	16.2 m (53' 2")	-114.3 cm (-45")	0.0 cm (0")	± 34.5 cm (13 37/64")
100" (254 cm)	203 cm (80")	152 cm (60")	5.4 m (17' 9")	10.8 m (35' 5")	-76.2 cm (-30")	0.0 cm (0")	± 23.0 cm (9 1/16")
80" (203 cm)	163 cm (64")	122 cm (48")	4.3 m (14' 3")	8.6 m (28' 4")	-61.0 cm (-24")	0.0 cm (0")	± 18.4 cm (7 ¹ / ₄ ")
60" (152 cm)	122 cm (48")	91 cm (36")	3.2 m (10' 8")	6.5 m (21' 3")	-45.7 cm (-18")	0.0 cm (0")	± 13.8 cm (5 ⁷ / ₁₆ ")

When using the projector with screen sizes not listed in the above charts, calculate the values according to the formulas.

	1	6:10 Signal	4:3 Signal		
	[m/cm]	[Feet/inches]	[m/cm]	[Feet/inches]	
L1: Minimum projection distance (m/ft)	0.04782χ	0.04782χ / 0.3048	0.05414χ	0.05414χ / 0.3048	
L2: Maximum projection distance (m/ft)	0.09542χ	0.09542χ / 0.3048	0.10802χ	0.10802% / 0.3048	
H1: Lower distance from the lens center to the bottom of the image (cm/in)	-0.6731X	-0.6731% / 2.54	-0.762X	-0.762% / 2.54	
H2:Upper distance from the lens center to the bottom of the image (cm/in)	Οχ	0χ / 2.54	Οχ	0χ / 2.54	
W: Distance from the lens center to the center of the image (cm/in)	±0.21539χ	±0.21539% / 2.54	±0.23004χ	±0.23004% / 2.54	

 χ : Picture diagonal size: 40" – 500" (16:10)

60" – 300" (4:3)

Note Note

- Allow a margin of error in the values in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Tele-zoom Lens (AN-PH823EZ: For XG-PH80X-N) F2.1-2.9, f = 32-63 mm

4:3 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the bottom of	Distance from the lens center to the center of the image		
Diag. [X]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
500" (1270 cm)	1016 cm (400'')	762 cm (300'')	22.6 m (74' 0")	45.0 m (147' 8")	-381.0 cm (-150")	0.0 cm (0")	± 101.6 cm (40")
300" (762 cm)	610 cm (240'')	457 cm (180'')	13.5 m (44' 5")	27.0 m (88' 7")	-228.6 cm (-90")	0.0 cm (0")	± 61.0 cm (24")
200" (508 cm)	406 cm (160'')	305 cm (120'')	9.0 m (29' 7")	18.0 m (59' 1")	-152.4 cm (-60")	0.0 cm (0")	± 40.6 cm (16")
150" (381 cm)	305 cm (120'')	229 cm (90'')	6.8 m (22' 2")	13.5 m (44' 4")	-114.3 cm (-45")	0.0 cm (0")	± 30.5 cm (12")
100" (254 cm)	203 cm (80")	152 cm (60'')	4.5 m (14' 10")	9.0 m (29' 6")	-76.2 cm (-30")	0.0 cm (0")	± 20.3 cm (8")
80" (203 cm)	163 cm (64'')	122 cm (48'')	3.6 m (11' 10")	7.2 m (23' 8")	-61.0 cm (-24")	0.0 cm (0")	± 16.3 cm (6 ¹³ / ₃₂ ")
60" (152 cm)	122 cm (48'')	91 cm (36'')	2.7 m (8' 11")	5.4 m (17' 9")	-45.7 cm (-18")	0.0 cm (0")	± 12.2 cm (4 ⁵¹ / ₆₄ ")
40" (102 cm)	81 cm (32'')	61 cm (24'')	1.8 m (5' 11")	3.6 m (11' 10")	-30.5 cm (-12")	0.0 cm (0")	± 8.1 cm (3 ¹³ / ₆₄ ")

16:9 Signal Input (Normal Mode)

Pi	Picture (Screen) size		Projection distance [L]		Distance from tl the bottom of	Distance from the lens center to the center of the image	
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
300" (762 cm)	664 cm (261'')	374 cm (147'')	14.7 m (48' 5")	29.4 m (96' 6")	-186.8 cm (-73 17/32")	62.3 cm (24 33/64")	± 66.4 cm (26 ⁹ / ₆₄ ")
200" (508 cm)	443 cm (174'')	249 cm (98'')	9.8 m (32' 3")	19.6 m (64' 4")	-124.5 cm (-49 1/32")	41.5 cm (16 11/32")	± 44.3 cm (17 ⁷ / ₁₆ ")
150" (381 cm)	332 cm (131'')	187 cm (74'')	7.4 m (24' 2")	14.7 m (48' 3")	-93.4 cm (-36 49/64")	31.1 cm (12 1/4")	± 33.2 cm (13 ⁵ / ₆₄ ")
100" (254 cm)	221 cm (87'')	125 cm (49'')	4.9 m (16' 2")	9.8 m (32' 2")	-62.3 cm (-24 33/64")	20.8 cm (8 11/64")	± 22.1 cm (8 ²³ / ₃₂ ")
80" (203 cm)	177 cm (70")	100 cm (39'')	3.9 m (12' 11")	7.8 m (25' 9")	-49.8 cm (-19 39/64")	16.6 cm (6 17/32")	± 17.7 cm (6 31/32")
60" (152 cm)	133 cm (52'')	75 cm (29'')	2.9 m (9' 8")	5.9 m (19' 4")	-37.4 cm (-14 ⁴⁵ / ₆₄ ")	12.5 cm (4 29/32")	± 13.3 cm (5 15/64")

When using the projector with screen sizes not listed in the above charts, calculate the values according to the formulas.

		4:3 Signal	16:9 Signal	
	[m/cm]	[Feet/inches]	[m/cm]	[Feet/inches]
L1: Minimum projection distance (m/ft)	0.04511χ	0.04511χ / 0.3048	0.04915χ	0.04915χ / 0.3048
L2: Maximum projection distance (m/ft)	0.09002χ	0.09002χ / 0.3048	0.09807χ	0.09807χ / 0.3048
H1: Lower distance from the lens center to the bottom of the image (cm/in)	-0.762X	-0.762% / 2.54	-0.62263X	-0.62263% / 2.54
H2:Upper distance from the lens center to the bottom of the image (cm/in)	Οχ	0χ / 2.54	0.20754χ	0.20754χ / 2.54
W: Distance from the lens center to the center of the image (cm/in)	±0.2032χ	±0.2032% / 2.54	±0.22138χ	±0.22138% / 2.54

 χ : Picture diagonal size: 40" – 500" (4:3)

60" – 300" (16:9)

- Allow a margin of error in the values in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Tele-zoom Lens (AN-PH845EZ: For XG-PH80W-N)

F2.2-3.1, f = 63.5-117.4 mm

16:10 Signal Input (Normal Mode)

Pio	cture (Screen) s	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 the image
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
500" (1270 cm)	1077 cm (424")	673 cm (265")	47.7 m (156' 6")	89.4 m (293' 3")	-336.6 cm (-132 1/2")	0.0 cm (0")	± 107.7 cm (42 ¹³ / ₃₂ ")
300" (762 cm)	646 cm (254")	404 cm (159")	28.6 m (93' 11")	53.6 m (176' 0")	-201.9 cm (-79 1/2")	0.0 cm (0")	± 64.6 cm (25 ⁷ / ₁₆ ")
200" (508 cm)	431 cm (170")	269 cm (106")	19.1 m (62' 7")	35.8 m (117' 4")	-134.6 cm (-53")	0.0 cm (0")	± 43.1 cm (16 ⁶¹ / ₆₄ ")
150" (381 cm)	323 cm (127")	202 cm (79")	14.3 m (47' 0")	26.8 m (88' 0")	-101.0 cm (-39 ³ / ₄ ")	0.0 cm (0")	± 32.3 cm (12 ²³ / ₃₂ ")
100" (254 cm)	215 cm (85")	135 cm (53")	9.5 m (31' 4")	17.9 m (58' 8")	-67.3 cm (-26 1/2")	0.0 cm (0")	± 21.5 cm (8 ³¹ / ₆₄ ")
80" (203 cm)	172 cm (68")	108 cm (42")	7.6 m (25' 1")	14.3 m (46' 11")	-53.8 cm (-21 ¹³ / ₆₄ ")	0.0 cm (0")	± 17.2 cm (6 ²⁵ / ₃₂ ")
60" (152 cm)	129 cm (51")	81 cm (32")	5.7 m (18' 9")	10.7 m (35' 2")	-40.4 cm (-15 ²⁹ / ₃₂ ")	0.0 cm (0")	± 12.9 cm (5 ³ / ₃₂ ")
40" (102 cm)	86 cm (34")	54 cm (21")	3.8 m (12' 6")	7.2 m (23' 6")	-26.9 cm (-10 ¹⁹ / ₃₂ ")	0.0 cm (0")	± 8.6 cm (3 ²⁵ / ₆₄ ")

4:3 Signal Input (Normal Mode)

Pi	cture (Screen) s	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 the image
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
300" (762 cm)	610 cm (240")	457 cm (180")	32.4 m (106' 4")	60.7 m (199' 2")	-228.6 cm (-90")	0.0 cm (0")	± 69.0 cm (27 ¹¹ / ₆₄ ")
200" (508 cm)	406 cm (160")	305 cm (120")	21.6 m (70' 11")	40.5 m (132' 10")	-152.4 cm (-60")	0.0 cm (0")	± 46.0 cm (18 ⁷ / ₆₄ ")
150" (381 cm)	305 cm (120")	229 cm (90")	16.2 m (53' 2")	30.4 m (99' 7")	-114.3 cm (-45")	0.0 cm (0")	± 34.5 cm (13 37/64")
100" (254 cm)	203 cm (80")	152 cm (60")	10.8 m (35' 5")	20.2 m (66' 5")	-76.2 cm (-30")	0.0 cm (0")	± 23.0 cm (9 1/16")
80" (203 cm)	163 cm (64")	122 cm (48")	8.6 m (28' 4")	16.2 m (53' 1")	-61.0 cm (-24")	0.0 cm (0")	± 18.4 cm (7 ¹ / ₄ ")
60" (152 cm)	122 cm (48")	91 cm (36")	6.5 m (21' 3")	12.1 m (39' 10")	-45.7 cm (-18")	0.0 cm (0")	± 13.8 cm (5 ⁷ / ₁₆ ")

When using the projector with screen sizes not listed in the above charts, calculate the values according to the formulas.

	1	6:10 Signal	4:3 Signal	
	[m/cm]	[Feet/inches]	[m/cm]	[Feet/inches]
L1: Minimum projection distance (m/ft)	0.09542χ	0.09542χ / 0.3048	0.10802χ	0.10802% / 0.3048
L2: Maximum projection distance (m/ft)	0.17878χ	0.17878χ / 0.3048	0.20239χ	0.20239χ / 0.3048
H1: Lower distance from the lens center to the bottom of the image (cm/in)	-0.6731X	-0.6731% / 2.54	-0.762X	-0.762% / 2.54
H2:Upper distance from the lens center to the bottom of the image (cm/in)	Οχ	0χ / 2.54	Οχ	0χ / 2.54
W: Distance from the lens center to the center of the image (cm/in)	±0.21539χ	±0.21539% / 2.54	±0.23004χ	±0.23004% / 2.54

 χ : Picture diagonal size: 40" – 500" (16:10)

60" – 300" (4:3)

Note 📎

- Allow a margin of error in the values in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Tele-zoom Lens (AN-PH845EZ: For XG-PH80X-N) F2.2-3.1, f = 63.5-117.4 mm

4:3 Signal Input (Normal Mode)

Pio	cture (Screen) s	size	Projection distance [L]		Distance from tl the bottom of	Distance from the lens center to the center of the image	
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
500" (1270 cm)	1016 cm (400'')	762 cm (300'')	45.0 m (147' 8")	84.3 m (276' 8")	-381.0 cm (-150")	0.0 cm (0")	± 101.6 cm (40")
300" (762 cm)	610 cm (240'')	457 cm (180'')	27.0 m (88' 7")	50.6 m (166' 0")	-228.6 cm (-90")	0.0 cm (0")	± 61.0 cm (24")
200" (508 cm)	406 cm (160'')	305 cm (120'')	18.0 m (59' 1")	33.7 m (110' 8")	-152.4 cm (-60")	0.0 cm (0")	± 40.6 cm (16")
150" (381 cm)	305 cm (120'')	229 cm (90'')	13.5 m (44' 4")	25.3 m (83' 0")	-114.3 cm (-45")	0.0 cm (0")	± 30.5 cm (12")
100" (254 cm)	203 cm (80'')	152 cm (60'')	9.0 m (29' 6")	16.9 m (55' 4")	-76.2 cm (-30")	0.0 cm (0")	± 20.3 cm (8")
80" (203 cm)	163 cm (64'')	122 cm (48'')	7.2 m (23' 8")	13.5 m (44' 3")	-61.0 cm (-24")	0.0 cm (0")	± 16.3 cm (6 ¹³ / ₃₂ ")
60" (152 cm)	122 cm (48'')	91 cm (36'')	5.4 m (17' 9")	10.1 m (33' 2")	-45.7 cm (-18")	0.0 cm (0")	± 12.2 cm (4 ⁵¹ / ₆₄ ")
40" (102 cm)	81 cm (32'')	61 cm (24'')	3.6 m (11' 10")	6.7 m (22' 2")	-30.5 cm (-12")	0.0 cm (0")	± 8.1 cm (3 ¹³ / ₆₄ ")

16:9 Signal Input (Normal Mode)

Pi	cture (Screen) s	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 the image
Diag. [½]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	[W]
300" (762 cm)	664 cm (261'')	374 cm (147'')	29.4 m (96' 6")	55.1 m (180' 10")	-186.8 cm (-73 17/32")	62.3 cm (24 33/64")	± 66.4 cm (26 %/64")
200" (508 cm)	443 cm (174'')	249 cm (98'')	19.6 m (64' 4")	36.8 m (120' 7")	-124.5 cm (-49 1/32")	41.5 cm (16 11/32")	± 44.3 cm (17 ⁷ / ₁₆ ")
150" (381 cm)	332 cm (131'')	187 cm (74'')	14.7 m (48' 3")	27.6 m (90' 5")	-93.4 cm (-36 49/64")	31.1 cm (12 1/4")	± 33.2 cm (13 5/64")
100" (254 cm)	221 cm (87'')	125 cm (49'')	9.8 m (32' 2")	18.4 m (60' 3")	-62.3 cm (-24 33/64")	20.8 cm (8 ¹¹ / ₆₄ ")	± 22.1 cm (8 ²³ / ₃₂ ")
80" (203 cm)	177 cm (70'')	100 cm (39'')	7.8 m (25' 9")	14.7 m (48' 3")	-49.8 cm (-19 39/64")	16.6 cm (6 17/32")	± 17.7 cm (6 ³¹ / ₃₂ ")
60" (152 cm)	133 cm (52")	75 cm (29'')	5.9 m (19' 4")	11.0 m (36' 2")	-37.4 cm (-14 ⁴⁵ / ₆₄ ")	12.5 cm (4 29/32")	± 13.3 cm (5 ¹⁵ / ₆₄ ")

When using the projector with screen sizes not listed in the above charts, calculate the values according to the formulas.

		4:3 Signal	16:9 Signal		
	[m/cm]	[Feet/inches]	[m/cm]	[Feet/inches]	
L1: Minimum projection distance (m/ft)	0.09002χ	0.09002χ / 0.3048	0.09807χ	0.09807χ / 0.3048	
L2: Maximum projection distance (m/ft)	0.16866χ	0.16866χ / 0.3048	0.18375χ	0.18375χ / 0.3048	
H1: Lower distance from the lens center to the bottom of the image (cm/in)	-0.762X	-0.762% / 2.54	-0.62263%	-0.62263% / 2.54	
H2:Upper distance from the lens center to the bottom of the image (cm/in)	Οχ	0χ / 2.54	0.20754χ	0.20754% / 2.54	
W: Distance from the lens center to the center of the image (cm/in)	±0.2032%	±0.2032X / 2.54	±0.22138χ	±0.22138% / 2.54	

 χ : Picture diagonal size: 40" – 500" (4:3)

60" – 300" (16:9)

Note 📎

- Allow a margin of error in the values in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Connecting Pin Assignments

COMPUTER/COMPONENT input and COMPUTER/COMPONENT output Terminals: mini

D-sub 15 pin female connector



Pin No. Signal

- 1. Video input (red)
- Video input (green/sync on green) 2. Video input (blue)
- З. Not connected 4.
- 5. Not connected
- 6. Earth (red)
- 7. Earth (green/sync on green)
- Earth (blue) 8.
- 9. Not connected
- 10. GND
- 11. Not connected
- 12. **Bi-directional data**
- 13. Horizontal sync signal: TTL level
- Vertical sync signal: TTL level 14.
- Data clock 15.

DVI-D Terminal: 24 pin connector



No.			N	an	۱e

Pin No.	Name
1.	T.M.D.S. Data 2–
2.	T.M.D.S. Data 2+
З.	T.M.D.S. Data 2 Shield
4.	Not connected
5.	Not connected
6.	DDC Clock
7.	DDC Data
8.	Not connected
9.	T.M.D.S. Data 1–
10.	T.M.D.S. Data 1+
	TMDC Data 1 Chield

- 11. T.M.D.S. Data 1 Shield
- 12. Not connected

COMPONENT Input/Output Pin No. Signal

1.	PR (CR)
2.	Y
З.	PB (CB)
4.	Not connected
5.	Not connected
6.	Earth (PR)
7.	Earth (Y)
8.	Earth (PB)
9.	Not connected
10.	Not connected
11.	Not connected
12.	Not connected
13.	Not connected

14. Not connected

15. Not connected

Pin No.	Name
13.	Not connected
14.	+5 V Power
15.	Ground
16.	Hot Plug Detect
17.	T.M.D.S. Data 0-
18.	T.M.D.S. Data 0+
19.	T.M.D.S. Data 0 Shield
20.	Not connected
21.	Not connected
22.	T.M.D.S. Clock Shield
23.	T.M.D.S. Clock+
24.	T.M.D.S. Clock-

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



Pin No. 1.	Signal	Name	I/O	Reference Not connected
2.	RD	Receive Data	Input	Connected to internal circuit
3.	SD	Send Data	Output	Connected to internal circuit
4.				Not connected
5.	SG	Signal Ground		Connected to internal circuit
6.				Not connected
7.	RS	Request to Send		Connected to CS in internal circuit
8.	CS	Clear to Send		Connected to RS in internal circuit
9.				Not connected

Connecting Pin Assignments



USB Terminal: Type B USB connector



Pin No.	Signal
1.	VCC
2.	USB-
3.	USB+
4.	SG

nal	Name
С	USB power
B–	USB data-
B+	USB data+
	Signal Ground

LAN Terminal: LAN (RJ-45)



RS-232C Specifications and Commands

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 24 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: 115,200 bps Data length: 8 bits Parity bit: None Stop bit: 1 bit Flow control: None

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 format
C1 C2 C3 C4 P1 P2 P3 P4 Return code (0DH)
Command 4-digit Parameter 4-digit
Response code format
Normal response Problem response (communication error or incorrect command)
O K Return code (0DH) E R Return code (0DH)
Info
• When controlling the projector using RS-232C commands from a computer, wait for at least 40 seconds
after the power has been turned on, and then transmit the commands.
• After sending an input selection or picture adjustment command and then receiving an "OK" response
projector is still processing the first command, you may receive an "ERR" response code. If this happens,
try resending the second command.
• When more than one code is being sent, send each command only after the response code for the
previous command from the projector is verified.
POVVR ????, TADN I, TLPS I, TPOVV I, TLPN I, TLTI I, "TLTM 1" "TLTI 1" "TNAM 1" "MNRD 1" "PINO 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.

- Set "LAN/RS232C" in "Ex. Setting" of "PRJ-ADJ" menu to "RS232C".
- 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.

RS-232C Specifications and Commands

Commands

	Computer														Projector			
	Р	0	W	R	_	_	_	1	L		4		 ↓ ←		~	→ 0 K		
																RE	TURN	
CONTROL CONTENTS					юм			PA	PARAMETER			Power ON	Standby mode (or 40-second startup time)					
Power		0	n					Р	P 0 W R _			1			ОК	OK or ERR		
		0	Off					Ρ	0	W	R	-	-	-	0	OK or ERR	ОК	
		St	tatus					Ρ	0	W	R	?	?	?	?	1	0	
Projector Condition								Т	A	В	N	-	-	-	1	0: Normal 8: Lamp Life 5% or less 16: Lamp Burn-out 32: Lamp Ignition Failure	0: Normal 2: Fan Error 4: Lamp Unit Cover Open 8: Lamp Life 5% or less 16: Lamp Burn-out 32: Lamp Ignition Failure 64: Temp Abnormally High	
Lamp		La	Lamp1 Status					Т	L	Ρ	s	-	-	-	1	0: Off, 1: On, 2: Retry 3: Waiting, 4: Lamp Error		
		La	Lamp2 Status				Т	L	Ρ	s	-	-	-	2	0: Off, 1: On, 2: Retry 3: Waiting, 4: Lamp Error	0: Off, 4: Lamp Error		
		P	ower Stat	us				Т	Ρ	0	W	-	-	-	1	1: On, 2: Cooling	0: Standby	
		Q	uantity					Т	L	Ρ	Ν	-	-	-	1	2		
		La	amp1 Usa	ige Time	(Hour)			Т	L	Т	Т	-	-	-	1	0 – 9999(Integer)		
		La	Lamp2 Usage Time(Hour)				Т	L	Т	Т	-	-	-	2	0 – 9999(Integer)			
		La	Lamp1 Usage Time(Minute)				Т	L	Т	М	-	-	-	1	0, 15, 30, 45			
		La	Lamp2 Usage Time(Minute)				Т	L	Т	М	-	-	-	2	0, 15, 30, 45			
		La	Lamp1 Life(Percentage)				Т	L	Т	L	-	-	-	1	0% – 100%(Integer)			
		La	Lamp2 Life(Percentage)				Т	L	Т	L	-	-	-	2	0% – 100%(Integer)			
		La	Lamp1 Timer Reset *1				L	P	R	E	0	0	0	1	ERR	OK or ERR		
		La	Lamp2 Timer Reset *1				L	P	R	E	0	0	0	2	ERR	OK or ERR		
Name		M	Model Name Check				Т	N	A	М	-	-	-	1				
		м	odel Narr	ne Check	K			M	N	R	D	-	-	-	1	XG-PH80W-N/XG-PH80X-N		
		Se	Serial No. Check *2				S	N	R	D	-	-	-	1	Serial No.			
		Pi (F	Projector Name Setting 1 (First 4 characters) *3			P	J	N	1	*	*	*	*					
		Pi (N	Projector Name Setting 2 (Middle 4 characters) *3				P	J	N	2	*	*	*	*	OK or ERR			
		Pi (L	ojector N ast 4 cha	lame Set racters)	tting 3 *3			P	J	N	3	*	*	*	*	OK or ERR		
		Pi	rojector N	lame Ch	eck			Ρ	J	Ν	0	-	-	-	1	Projector Name		
Input Change		C	OMPUTE	R1				1	R	G	В	-	-	-	1	OK or ERR	ERR	
		C	OMPUTE	R2 (5BN	C)			1	R	G	В	-	-	-	2	OK or ERR	ERR	
		C	OMPUTE	R3 (DVI)					R	G	В	-	-	-	3	OK or ERR	ERR	
		C	OMPONE	NT				1	R	G	В	-	-	-	4	OK or ERR	ERR	
		S	-VIDEO					1	V	E	D	-	-	-	1	OK or ERR	ERR	
		VI	DEO						V	E	D	-	-	-	2	OK or ERR	ERR	
		In	put RGB	Check					R	G	В	?	?	?	?	1: COMPUTER1, 2: COMPUTER2, 3: DVI, 4: COMPONENT or ERR	ERR	
		In	put Video	Check				1	V	Е	D	?	?	?	?	1: S-VIDEO, 2: VIDEO or ERI	ERR	
		In	put Mode	e Check				1	Μ	0	D	?	?	?	?	1: RGB, 2: VIDEO	ERR	

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

*1 The 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 the order of PJN1, PJN2 and PJN3.

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



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- PJLink is a registered trademark or an application trademark in Japan, the United States, Canada, E.U., China and/or other countries/regions.
- 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.

1 Disconnect the computer's LAN cable from the existing network.

A LAN cable being connected to the network

2 Connect a commercially available LAN cable (UTP cable, Category 5, cross-over type) to the projector's LAN terminal and connect the other end of the cable to the computer's LAN terminal.

3 Plug the power cord into the AC socket of the projector.



(cross-over type, commercially available)



Info

Confirm that the LINK LED on the rear of the projector illuminates. If the LINK LED does not illuminate, check the following:

• The LAN cable is properly connected.

4 Turn on the computer.

• 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".

- **3** Click "View network status and tasks" of "Network and Internet", and click "View status" in the new window.
 - This manual uses examples to explain the operations in Category View. If you are using Classic View, double-click "Network and Sharing Center".



- 4 Click "Properties".
 - When the user account control display is displayed, click "Continue".



Setting up the Projector Network Environment

5 Click "Internet Protocol Version 4 (TCP/IPv4)", and click the "Properties" button.

📮 Local Area Connection Properties 🛛 💽	
Networking	
Connect using:	
VIA Rhine II Fast Ethemet Adapter	
Configure	
This connection uses the following items:	
Client for Microsoft Networks	
Gos Packet Scheduler Gos Packet Scheduler Gos and Bistor Station for Microsoft Naturalia	
Internet Protocol Version 6 (TCP/IPv6)	
Internet Protocol Version 4 (TCP/IPv4)	-1
Install	_2
Description	
Transmission Control Protocol/Internet Protocol. The default	
across diverse interconnected networks.	
OK Cancel	

6 Confirm or change an IP address for the setup computer.

(1) 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.

 2 Set temporarily as follows: IP address: 192.168.150.3 Subnet mask: 255.255.255.0 Default gateway: (Do not input any values.)

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 Default gateway: 0.0.00

7 After setting, click the "OK" button, and then restart the computer.

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

Internet Protocol Version 4 (TCP/IPv4)	Properties 🔹 💦 💽									
General										
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.										
Obtain an IP address automatical	ly									
• Use the following IP address:]									
IP address:	192.168.150.3									
Subnet mask:	255.255.255.0									
Default gateway:	· · ·									

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 54 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 6.0 or later) on the computer, and enter "http://192.168.150.2/system. html" in "Address", and then press the "Enter" key.

2 The "System Configuration" screen appears, ready for network settings for the projector.

Items	Setting example / Remarks
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 Mask	You can set this item when "DHCP 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 Gateway	You can set this item when "DHCP Client" is set to "OFF". Factory default setting: 0.0.0.0 * When not in use, set to "0.0.0.0".
DNS Server	Factory default setting: 0.0.0.0 * When not in use, set to "0.0.0.0".
DHCP Client	Select "ON" or "OFF" to determine whether to use DHCP Client.



System Configuration

IP Address:	192 . 168 . 150 . 2							
Subnet Mask:	255 . 255 . 0							
Default Gateway:	0.0.0.0							
DNS Server:	0.0.0.0							
DHCP Client	ON OFF							
MAC Address:	XX: XX: XX: XX: XX: XX							
Firmware Version:								

Apply Cancel

📎 Note

- 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.

Setting up the Projector Network Environment

3 Confirm that the values are set properly, and then click the "Apply" button.

System Configuration

IP Address:	192	168	150	. 2
Subnet Mask:	255	. 255	. 255	. 0
Default Gateway:	0	. 0	. 0	. 0
DNS Server:	0	. 0	. 0	. 0
DHCP Client	© 0	N 🖲 OF	F	
MAC Address:	XX:XX	:xx:xx:xx	:XX	
Firmware Version:				

- Close the browser.
- This completes the network settings.
- After setting items, wait for about 15 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 **21**, 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 6.0 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

Complete connections to external equipment before starting the operation. (See pages 21-25 of the projector's operation manual.) Complete the AC cord connection. (See page 27 of the projector's operation manual.)

Note

- Set "LAN/RS232C" in "Ex. Setting" of the "PRJ-ADJ" menu to "LAN".
- 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.

1 Start Internet Explorer on the computer.

- 2 Enter "http://" followed by the projector IP address set by the procedure on page 22 followed by "/" in "Address", and then press the "Enter" key.
 - When "DHCP Client" is set to "Off" on the projector, 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 22-23), enter "http://192.168.150.2/system.html".
- **3** A screen for controlling the projector appears, ready for performing various status conditions and control.

🤌 Projector LAN Control - W	Vindows Internet Explorer			
🕞 💬 🗢 🙋 http://192	2.168.150.2/	•	49	×
🚖 Favorites 🛛 🌈 Project	tor LAN Control			•

rojector					ON Power STANDE
Picture ——					Volume –
Bright C	ontrast	Color	Tint	Sharp	
	▼		▼		
Input Select					AV Mute -
COMPUTER1		DVI-D	C	VIDEO	ON OFF
COMPUTER2	COM	IPONENT	C	S-VIDEO	
Status	(Refresh			
	1000				
Lamp life 1	100%		1		
	10004		I Cons	ition	
Lamp life 2	100%		Not	lition cmal.	

Filter Timer

Controlling the Projector and Confirming the Projector Status

On this screen, you can perform projector control or confirm the projector status.

You can control the following items:

- Power
- Picture
- Bright
- Contrast
- Color
- Tint
- Sharp
- Input Select
- Volume
- AV Mute

You can confirm the following items:

- Status
 - Lamp life 1
 - Lamp life 2
 - Lamp time 1
 - Lamp time 2
 - Filter Timer
 - Condition

📎 Note

• For details about each item, refer to the projector's operation manual.



Making General Settings for the Network

Enter "http://XXX.XXX.XXX.X/lanconf. html" (for "XXX.XXX.XXX.X", enter the IP address set by the procedure on page 22) in "Address" on Internet Explorer (version 6.0 or later) using a computer on the network to display the "Projector LAN Configuration" screen.

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

DOMAIN

Items	Description			
Host Name	Setting a hostname.			
Domain Name	Setting a domain name of the network connected to the projector.			

MAIL

Items	Description
Error Mail	Selecting "Enable" activates the Alert Mail feature. When using a wired LAN, your computer will receive an error message via e-mail if the projector lamp reaches the end of its lifetime or if an error occurs in the projector.
Originator Address	Setting the projector's e-mail address. The e-mail address set here becomes Originator E-mail Address.
SMTP Server	Setting an SMTP server address for e- mail transmission.
Recipient Address (1–3)	Setting your recipient's address.

■ TEST MAIL

Click "Execute" to enable the TEST MAIL feature, which allows you to send a test mail to confirm that the settings for e-mail transmission are properly made. Click "Test Mail Status" to make sure that the test mail is sent correctly.

PJLink

Items	Description
PJLink (Password)	Selecting "Enable" allows you to set a password when using the PJLink feature.
Password	Setting a password.

Note

- When "DHCP Client" is set to "Off" on the projector, 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 22-23), enter "http://192.168.150.2/system.html".
- You can input up to 60 characters.
- You can input the characters below:
 - Host Name and Domain Name: A-Z, 0-9, -
 - Originator Address, SMTP Server and Recipient Address: a-z, A-Z, 0-9, !, #, \$, %, &,
 - *, +, -, /, =, ?, ^, {, |, }, ~, _, ', ., @,`

Projector

DOMAIN 🖶 —	_
Host Name	
Domain Name	
Apply	

MAIL 🖳 —

Error Mail	Enable I Disable	
Originator Address		
SMTP Server		
Recipient Address 1		
Recipient Address 2		
Recipient Address 3		
Apply		

TEST MAIL Test Mail Status

Execute	

PJLink		
PJLink (Password)	Enable Disable	
Password		
Apply		

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

Operating the Projector Using the PJLink[™] Protocol

The projector conforms with the PJLink[™] standard Class 1. The commands to be used in controlling the projector by the PJLink[™] protocol are as shown below.

C	ONTROL CONTENTS			(сом	IMAN	١D			RETURN
Power Control	Off	Ρ	0	W	R	-	0	Τ		OK or ERR3
	On	Р	0	W	R	_	1			OK or ERR3
Power Status Query		Р	0	W	R	-	?			0: Standby Mode
										1: Power On
										2: Standby (Cooling)
										3: Power On (Warming up)
Input List Query		T	Ν	s	Т	_	?			11 12 21 22 23 31
Input Change	COMPUTER1	Γ	Ν	Р	Т	_	1	1		OK or ERR3
	COMPUTER2	1	Ν	Р	Т	_	1	2		OK or ERR3
	COMPONENT	1	Ν	Ρ	Т	_	2	1		OK or ERR3
	S-VIDEO	1	Ν	Р	Т	-	2	2		OK or ERR3
	VIDEO	Ι	Ν	Ρ	Т	_	2	3		OK or ERR3
	DVI	1	Ν	Р	Т	_	3	1		OK or ERR3
Input Status Query		1	Ν	Р	Т	_	?			11: COMPUTER1
										12: COMPUTER2
										21: COMPONENT
										22: S-VIDEO
										23: VIDEO
										31: DVI
										or ERR3
AV Mute	Off	A	V	м	Т		3	0		OK or ERR3
	On	Α	V	м	Т	1_	3	1		OK or ERR3
AV Mute Status Query		A	V	м	Т	1_	?	+		30: Off
										31: On
										or ERR3
Lamp Query		L	А	м	Р	1_	?			1st Number: Lamp1 Usage Time (Hour)
										2nd Number: 0: Lamp1 Off 1: Lamp1 on
										3rd Number: Lamp2 Usage Time (Hour)
										4th Number: 0: Lamp2 Off 1: Lamp2 on
Error Condition Query		E	R	s	Т	1_	?			1st Byte: Fan Error Status
										2nd Byte: Lamp Error Status
										3rd Byte: Temp. Error Status
										4th Byte: Cover Open Status
										5th Byte: Not Used, Beturn 0
										6th Byte: Not Used. Return 0
										0: No Error Detected
										1: Warning
										2: Error Detected
Projector Name Query		N	A	м	E		?	+		Projector Name
Manufacture Name Query		1	N	F	1	1_	?	+		SHARP
Product Name Query		1	N	F	2	t	?	+	+	XG-PH80W-N/XG-PH80X-N
Other Information Query		1	Ν	F	0	1	?	\uparrow	1	Not used
Class Information Query		С	L	s	s	1_	?	\uparrow		1

PJLink[™] Authentication:

To activate the password used for PJLink[™], set "PJLink (Password)" to "Enable" and then enter the password (page **26**). When operating without authentication, set "PJLink (Password)" to "Disable".

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/".

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".

Note 📎

- When "DHCP Client" is set to "Off" on the projector: 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 pages 22-23.

- ◀ 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"

 - \rightarrow "Accessories" \rightarrow "Command Prompt" in order.
 - 2. After launching the command prompt, enter the command "ipconfig", and press the "Enter" key.

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	
indows IP Configuration	
Ethernet adapter Local Area Connection: Connection-specific DNS Suffix . : IPv4 Address : 192.168.150.3 Subnet Mask : 255.255.25 Default Gateway : 192.168.150.1	

(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.

Troubleshooting

- 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.
 - 2. After launching the command prompt enter a command "PING".
 - Entry example C:\>ping XXX.XXX.XXX.XXX

"XXX.XXX.XXX.XXX" should be entered with an IP address to be connected to, such as the projector.

3. 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"

🔤 Command Prompt	_ 🗆 🗙					
C:>>ping 192.168.150.1						
Pinging 192.168.150.1 with 32 bytes of data:						
Reply from 192.168.150.1: bytes=32 time<1ms TTL=64 Reply from 192.168.150.1: bytes=32 time<1ms TTL=64 Reply from 192.168.150.1: bytes=32 time<1ms TTL=64 Reply from 192.168.150.1: bytes=32 time<1ms TTL=64						
Ping statistics for 192.168.150.1: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms						

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.

When the projector cannot be connected, even though the "PING" command is checked:
When a security software is installed on the PC, or when a fire wall has been set up for the network system, connection may not be possible. Consult the system administrator.



Units: inches (mm)



Dimensions

Projector and Lens Dimensions

[When AN-PH818EZ is installed]



[When AN-PH823EZ is installed]



[When AN-PH845EZ is installed]

Unit : inches (mm)



[When AN-PH808EX is installed]



[When AN-PH814EZ is installed]

Unit : inches (mm)



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