

# EIKI

# EIKI

Fixed wide lens for projector

MODEL **AH-55301**

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**OWNER'S MANUAL**

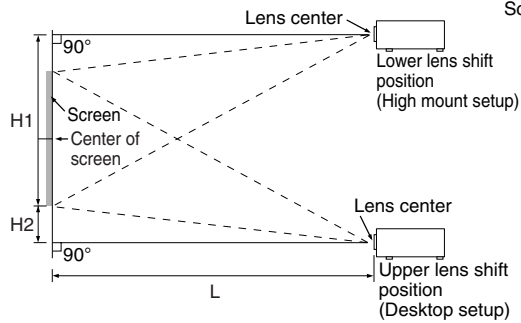
**EIKI INDUSTRIAL CO., LTD.**

Printed in China  
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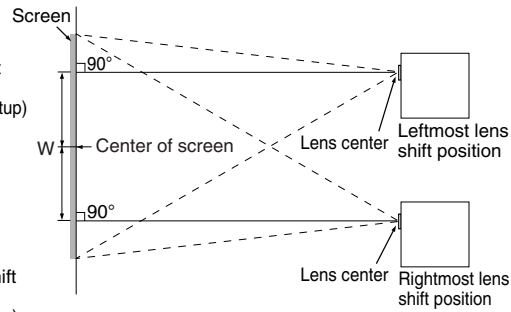
English

# Picture size and projection distance chart

## Side View



## Top View



### 16:10 Signal Input (Normal Mode)

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 [W]
Diag. [X]	Width	Height		Lower [H1]	Upper [H2]	
230" (584 cm)	495 cm (195")	310 cm (122")	6.0 m (19' 9")	-222.9 cm (-87 7/8")	-86.7 cm (-34 1/8")	±54.5 cm (21 3/8")
200" (508 cm)	431 cm (170")	269 cm (106")	5.2 m (17' 2")	-193.8 cm (-76 5/8")	-75.4 cm (-29 3/8")	±47.4 cm (18 7/8")
150" (381 cm)	323 cm (127")	202 cm (79")	3.9 m (12' 11")	-145.4 cm (-57 15/16")	-56.5 cm (-22 1/4")	±35.5 cm (13 9/16")
120" (305 cm)	258 cm (102")	162 cm (64")	3.1 m (10' 4")	-116.3 cm (-45 25/32")	-45.2 cm (-17 13/16")	±28.4 cm (11 3/16")
100" (254 cm)	215 cm (85")	135 cm (53")	2.6 m (8' 7")	-96.9 cm (-38 3/32")	-37.7 cm (-14 27/32")	±23.7 cm (9 21/32")
80" (203 cm)	172 cm (68")	108 cm (42")	2.1 m (6' 10")	-77.5 cm (-30 17/32")	-30.2 cm (-11 7/8")	±19.0 cm (7 15/32")
60" (152 cm)	129 cm (51")	81 cm (32")	1.6 m (5' 2")	-58.1 cm (-22 87/64")	-22.6 cm (-8 29/32")	±14.2 cm (5 19/32")

The formula for picture size and projection distance  
X: Picture size (diag.) (in/cm)  
[m/cm]  
L (m) = 0.02619X  
H1 (cm) = -0.96916X  
H2 (cm) = -0.37689X  
W (cm) = ±0.23691X  
[Feet/inches]  
L (ft) = 0.02619X / 0.3048  
H1 (in) = -0.96916X / 2.54  
H2 (in) = -0.37689X / 2.54  
W (in) = ±0.23691X / 2.54

### 4:3 Signal Input (Normal Mode)

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 [W]
Diag. [X]	Width	Height		Lower [H1]	Upper [H2]	
200" (508 cm)	406 cm (160")	305 cm (120")	5.9 m (19' 5")	-219.4 cm (-86 25/64")	-85.3 cm (-33 19/32")	±53.6 cm (21 1/8")
150" (381 cm)	305 cm (120")	229 cm (90")	4.4 m (14' 7")	-164.6 cm (-64 91/64")	-64.0 cm (-25 15/16")	±40.2 cm (15 27/32")
120" (305 cm)	244 cm (96")	183 cm (72")	3.6 m (11' 8")	-131.7 cm (-51 59/64")	-51.2 cm (-20 9/32")	±32.2 cm (12 49/64")
100" (254 cm)	203 cm (80")	152 cm (60")	3.0 m (9' 9")	-109.7 cm (-43 31/64")	-42.7 cm (-16 91/64")	±26.8 cm (10 9/16")
80" (203 cm)	163 cm (64")	122 cm (48")	2.4 m (7' 9")	-87.8 cm (-34 9/16")	-34.1 cm (-13 7/16")	±21.5 cm (8 29/64")
70" (178 cm)	142 cm (56")	107 cm (42")	2.1 m (6' 10")	-76.8 cm (-30 15/64")	-29.9 cm (-11 49/64")	±18.8 cm (7 29/64")
60" (152 cm)	122 cm (48")	91 cm (36")	1.8 m (5' 10")	-65.8 cm (-25 59/64")	-25.6 cm (-10 9/16")	±16.1 cm (6 11/32")

The formula for picture size and projection distance  
X: Picture size (diag.) (in/cm)  
[m/cm]  
L (m) = 0.02965X  
H1 (cm) = -1.09716X  
H2 (cm) = -0.42667X  
W (cm) = ±0.26823X  
[Feet/inches]  
L (ft) = 0.02965X / 0.3048  
H1 (in) = -1.09716X / 2.54  
H2 (in) = -0.42667X / 2.54  
W (in) = ±0.26823X / 2.54



- Note**
- Allow a margin of error in the value 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.

# Adjust the picture size and focus

Refer to "Image Projection" in the projector owner's manual for information on adjusting the focus and picture size.

## Handling Precautions

- **Do not disassemble this lens.**  
Please refer to your authorized dealer for any maintenance and inspections requiring an open cabinet.
- **Touching any other internal part could cause personal injury or machine malfunction.**
- **Do not touch any glass or protruding part of the lens. This may cause personal injury and reduced performance of the projector.**
- **When maintaining the projector the following points should be noted.**
  - When cleaning the lens be sure to use a commercial air blower or lens cleaning paper (used in cleaning glasses and cameras).
  - The surface of the lens is very delicate. Do not allow hard objects to bump or rub against it.

## Supplied Accessories

- Lens cap (front) × 1
- Lens cap (rear) × 1
- Installation manual
- Owner's manual (this manual)

## Specifications

Model	AH-55301
Picture size (diagonal)	60" to 230" (16:10)
Focal length	17.1 mm (43/64")
F no.	2.5
Throw ratio	1:1.2
Weight	Approx. 1,935 g (4.3 lbs.)
Depth of projector with the lens attached	685 mm (26 31/32")