

# EIKI

# EIKI

Tele-zoom lens for projector

MODEL **AH-55601**

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**OWNER'S MANUAL**

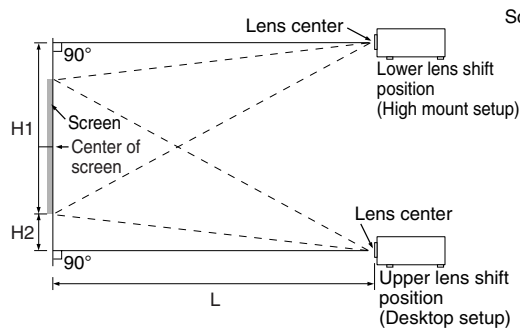
**EIKI INDUSTRIAL CO., LTD.**

Printed in China  
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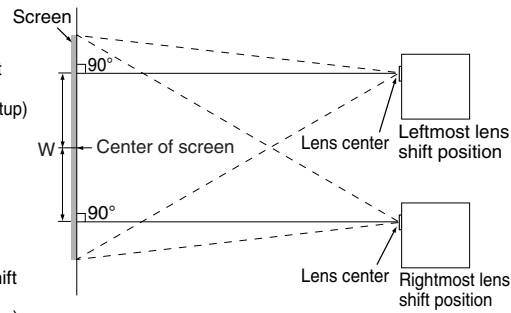
English

# 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	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	
230" (584 cm)	495 cm (195")	310 cm (122")	11.3 m (37' 1")	15.1 m (49' 5")	-360.7 cm (-142")	51.1 cm (20 7/16")	±173.4 cm (68 1/4")
200" (506 cm)	431 cm (170")	269 cm (106")	9.8 m (32' 3")	13.1 m (43' 0")	-313.6 cm (-123 15/32")	44.4 cm (17 31/64")	±150.8 cm (59 23/64")
150" (381 cm)	323 cm (127")	202 cm (79")	7.4 m (24' 2")	9.8 m (32' 3")	-235.2 cm (-92 39/64")	33.3 cm (13 1/8")	±113.1 cm (44 33/64")
120" (305 cm)	258 cm (102")	162 cm (64")	5.9 m (19' 4")	7.9 m (25' 9")	-188.2 cm (-74 5/16")	26.7 cm (10 1/2")	±90.5 cm (35 39/64")
100" (254 cm)	215 cm (85")	135 cm (53")	4.9 m (16' 1")	6.5 m (21' 6")	-156.8 cm (-61 47/64")	22.2 cm (8 3/4")	±75.4 cm (29 43/64")
80" (203 cm)	172 cm (68")	108 cm (42")	3.9 m (12' 11")	5.2 m (17' 2")	-125.5 cm (-49 25/64")	17.8 cm (7")	±60.3 cm (23 47/64")
60" (152 cm)	129 cm (51")	81 cm (32")	2.9 m (9' 8")	3.9 m (12' 11")	-94.1 cm (-37 3/64")	13.3 cm (5 1/4")	±45.2 cm (17 13/16")

The formula for picture size and projection distance  
 X: Picture size (diag.) (in/cm)  
**[m/cm]**  
 L1 (m) = 0.0491X  
 L2 (m) = 0.06547X  
 H1 (cm) = -1.56815X  
 H2 (cm) = 0.2221X  
 W (cm) = ±0.75379X  
**[Feet/inches]**  
 L1 (ft) = 0.0491X / 0.3048  
 L2 (ft) = 0.06547X / 0.3048  
 H1 (in) = -1.56815 X / 2.54  
 H2 (in) = 0.2221X / 2.54  
 W (in) = ±0.75379X / 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	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	
200" (508 cm)	406 cm (160")	305 cm (120")	11.1 m (36' 6")	14.8 m (48' 8")	-355.1 cm (-139 29/32")	50.3 cm (19 9/16")	±170.7 cm (67 13/64")
150" (381 cm)	305 cm (120")	229 cm (90")	8.3 m (27' 4")	11.1 m (36' 6")	-266.3 cm (-104 27/32")	37.7 cm (14 27/32")	±128.0 cm (50 13/32")
120" (305 cm)	244 cm (96")	183 cm (72")	6.7 m (21' 11")	8.9 m (29' 2")	-213.0 cm (-83 7/8")	30.2 cm (11 7/8")	±102.4 cm (40 5/16")
100" (254 cm)	203 cm (80")	152 cm (60")	5.6 m (18' 3")	7.4 m (24' 4")	-177.5 cm (-69 57/64")	25.1 cm (9 39/32")	±85.3 cm (33 19/32")
80" (203 cm)	163 cm (64")	122 cm (48")	4.4 m (14' 7")	5.9 m (19' 5")	-142.0 cm (-55 29/32")	20.1 cm (7 39/64")	±68.3 cm (26 7/8")
70" (178 cm)	142 cm (56")	107 cm (42")	3.9 m (12' 9")	5.2 m (17' 0")	-124.3 cm (-48 39/64")	17.6 cm (6 39/64")	±59.7 cm (23 39/64")
60" (152 cm)	122 cm (48")	91 cm (36")	3.3 m (10' 11")	4.4 m (14' 7")	-106.5 cm (-41 15/16")	15.1 cm (5 15/16")	±51.2 cm (20 5/32")

The formula for picture size and projection distance  
 X: Picture size (diag.) (in/cm)  
**[m/cm]**  
 L1 (m) = 0.05559X  
 L2 (m) = 0.07412X  
 H1 (cm) = -1.77527X  
 H2 (cm) = 0.25143X  
 W (cm) = ±0.85344X  
**[Feet/inches]**  
 L1 (ft) = 0.05559X / 0.3048  
 L2 (ft) = 0.07412X / 0.3048  
 H1 (in) = -1.77527X / 2.54  
 H2 (in) = 0.25143X / 2.54  
 W (in) = ±0.85344X / 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-55601
Picture size (diagonal)	60" to 230" (16:10)
Focal length	31.9 mm (1 17/64") – 42.5 mm (1 43/64")
F no.	2.5
Throw ratio	1:2.25 – 3.0
Weight	Approx. 1,555 g (3.4 lbs.)
Depth of projector with the lens attached	645 mm (25 13/32")