

EIKI

EIKI

Standard zoom lens for projector

MODEL **AH-55501**

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OWNER'S MANUAL

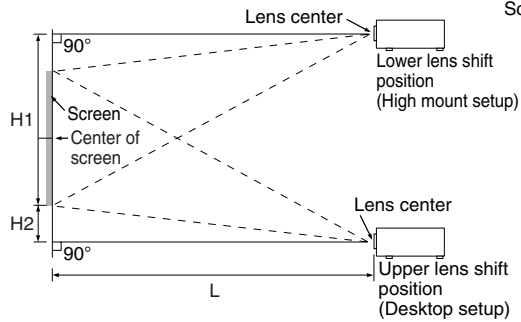
EIKI INDUSTRIAL CO., LTD.

Printed in China
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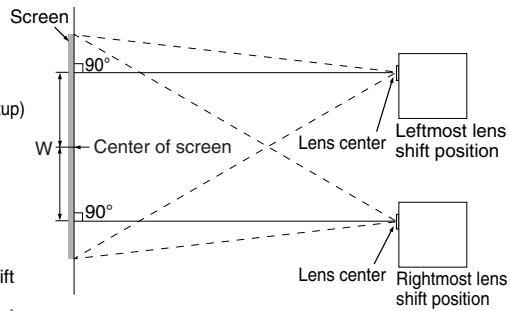
English

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]	
280" (711 cm)	603 cm (237")	377 cm (148")	11.0 m (36' 0")	13.7 m (45' 1")	-439.1 cm (-172 39/64")	62.2 cm (24 39/64")	±211.1 cm (83 39/64")
250" (635 cm)	538 cm (212")	337 cm (132")	9.8 m (32' 2")	12.3 m (40' 3")	-392.0 cm (-154 11/32")	55.5 cm (21 39/64")	±188.4 cm (74 39/64")
200" (508 cm)	431 cm (170")	269 cm (106")	7.8 m (25' 9")	9.8 m (32' 3")	-313.6 cm (-123 13/32")	44.4 cm (17 39/64")	±150.8 cm (59 23/64")
150" (381 cm)	323 cm (127")	202 cm (79")	5.9 m (19' 3")	7.4 m (24' 2")	-235.2 cm (-92 39/64")	33.3 cm (13 7/64")	±113.1 cm (44 39/64")
120" (305 cm)	258 cm (102")	162 cm (64")	4.7 m (15' 5")	5.9 m (19' 4")	-188.2 cm (-74 9/64")	26.7 cm (10 1/2")	±90.5 cm (35 39/64")
100" (254 cm)	215 cm (85")	135 cm (53")	3.9 m (12' 10")	4.9 m (16' 1")	-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")	3.1 m (10' 3")	3.9 m (12' 11")	-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")	2.4 m (7' 9")	2.9 m (9' 8")	-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) = 0.0392X
 L2 (m) = 0.0491X
 H1 (cm) = -1.56815X
 H2 (cm) = 0.2221X
 W (cm) = ±0.75379X
[Feet/inches]
 L1 (ft) = 0.0392X / 0.3048
 L2 (ft) = 0.0491X / 0.3048
 H1 (in) = -1.56815X / 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]	
240" (610 cm)	488 cm (192")	366 cm (144")	10.7 m (34' 11")	13.3 m (43' 9")	-426.1 cm (-167 47/64")	60.3 cm (23 39/64")	±204.8 cm (80 41/64")
200" (508 cm)	406 cm (160")	305 cm (120")	8.9 m (29' 1")	11.1 m (36' 6")	-355.1 cm (-139 23/32")	50.3 cm (19 39/64")	±170.7 cm (67 13/64")
150" (381 cm)	305 cm (120")	229 cm (90")	6.7 m (21' 10")	8.3 m (27' 4")	-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")	5.3 m (17' 6")	6.7 m (21' 11")	-213.0 cm (-83 7/8")	30.2 cm (11 7/8")	±102.4 cm (40 7/8")
100" (254 cm)	203 cm (80")	152 cm (60")	4.4 m (14' 7")	5.6 m (18' 3")	-177.5 cm (-69 97/64")	25.1 cm (9 29/32")	±85.3 cm (33 19/32")
80" (203 cm)	163 cm (64")	122 cm (48")	3.6 m (11' 8")	4.4 m (14' 7")	-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")	3.1 m (10' 2")	3.9 m (12' 9")	-124.3 cm (-48 19/64")	17.6 cm (6 39/64")	±59.7 cm (23 39/64")
60" (152 cm)	122 cm (48")	91 cm (36")	2.7 m (8' 9")	3.3 m (10' 11")	-106.5 cm (-41 15/16")	15.1 cm (5 15/64")	±51.2 cm (20 39/64")

The formula for picture size and projection distance
 X: Picture size (diag.) (in/cm)
[m/cm]
 L1 (m) = 0.04438X
 L2 (m) = 0.05559X
 H1 (cm) = -1.77527X
 H2 (cm) = 0.25143X
 W (cm) = ±0.85344X
[Feet/inches]
 L1 (ft) = 0.04438X / 0.3048
 L2 (ft) = 0.05559X / 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-55501
Picture size (diagonal)	60" to 280" (16:10)
Focal length	25.5 mm (1 1/64") – 32 mm (1 17/64")
F no.	2.5
Throw ratio	1:1.8 – 2.25
Weight	Approx. 1,565 g (3.5 lbs.)
Depth of projector with the lens attached	645 mm (25 13/32")