

EIKI

EIKI

Wide-zoom lens for projector

MODEL **AH-55401**

U.S.A.

EIKI International, Inc.
30251 Esperanza
Rancho Santa Margarita
CA 92688-2132
U.S.A.
Tel : 800-242-3454 (949)-457-0200
Fax : 800-457-3454 (949)-457-7878
E-Mail : usa@eiki.com

Deutschland & Österreich

EIKI Deutschland GmbH
Am Frauwald 12
65510 Idstein
Deutschland
Tel : 06126-9371-0
Fax: 06126-9371-14
E-Mail : info@eiki.de

China

EIKI (Shanghai) Co.,LTD
1. Dapu Road, Golden Magnolia Plaza
#2109 Shanghai,
200023 China
Tel : 86-21-5396-0088
Fax: 86-21-5396-0318
E-Mail : info@eiki-china.com

Canada

EIKI CANADA - Eiki International, Inc.
P.O. Box 156, 310 First St. - Unit 2,
Midland, ON, L4R 4K8, Canada
Tel : 800-563-3454 (705)-527-4084
Fax: 800-567-4069 (705)-527-4087
E-Mail : canada@eiki.com

Eastern Europe

EIKI CZECH spol. s.r.o.
Umělecká 15
170 00 Praha 7
Czech Republic
Tel : +42 02 20570024
+42 02 20571413
Fax: +42 02 20571411
E-Mail : easterneurope@eiki.de

Japan & Worldwide

EIKI Industrial Company Limited.
4-12 Banzai-Cho, Kita-Ku, Osaka,
530-0028 Japan
Tel : +81-6-6311-9479
Fax: +81-6-6311-8486

WorldWide Website <http://www.eiki.com>

OWNER'S MANUAL

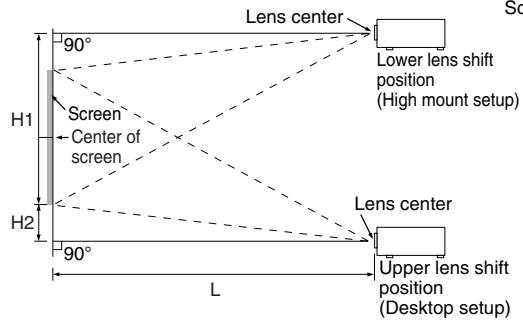
EIKI INDUSTRIAL CO., LTD.

Printed in China
XXXXXXXXXXXXX
08PXX-CH-NM

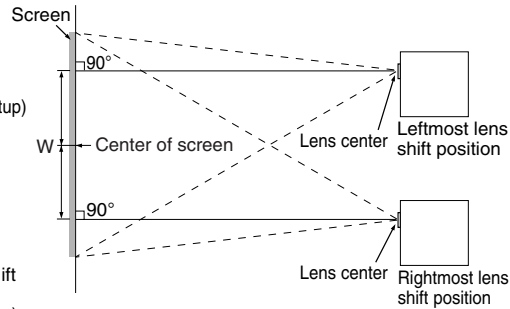
English

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. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	
230" (584 cm)	495 cm (195")	310 cm (122")	7.5 m (24' 8")	9.0 m (29' 7")	-360.7 cm (-142")	51.1 cm (20 7/64")	±173.4 cm (68 1/4")
200" (508 cm)	431 cm (170")	269 cm (106")	6.5 m (21' 6")	7.8 m (25' 9")	-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")	4.9 m (16' 1")	5.9 m (19' 3")	-235.2 cm (-92 39/64")	33.3 cm (13 7/64")	±113.1 cm (44 33/64")
120" (305 cm)	258 cm (102")	162 cm (64")	3.9 m (12' 11")	4.7 m (15' 5")	-188.2 cm (-74 5/64")	26.7 cm (10 1/2")	±90.5 cm (35 39/64")
100" (254 cm)	215 cm (85")	135 cm (53")	3.3 m (10' 9")	3.9 m (12' 10")	-156.8 cm (-61 47/64")	22.2 cm (8 3/4")	±75.4 cm (29 49/64")
80" (203 cm)	172 cm (68")	108 cm (42")	2.6 m (8' 7")	3.1 m (10' 3")	-125.5 cm (-49 29/64")	17.8 cm (7")	±60.3 cm (23 47/64")
60" (152 cm)	129 cm (51")	81 cm (32")	2.0 m (6' 5")	2.4 m (7' 9")	-94.1 cm (-37 3/64")	13.3 cm (5 1/4")	±45.2 cm (17 19/64")

The formula for picture size and projection distance
 χ: Picture size (diag.) (in/cm)
[m/cm]
 L1 (m) = 0.03274χ
 L2 (m) = 0.03992χ
 H1 (cm) = -1.56815χ
 H2 (cm) = 0.2221χ
 W (cm) = ±0.75379χ
[Feet/inches]
 L1 (ft) = 0.03274χ / 0.3048
 L2 (ft) = 0.03992χ / 0.3048
 H1 (in) = -1.56815χ / 2.54
 H2 (in) = 0.2221χ / 2.54
 W (in) = ±0.75379χ / 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. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	
200" (508 cm)	406 cm (160")	305 cm (120")	7.4 m (24' 4")	8.9 m (29' 1")	-355.1 cm (-139 25/32")	50.3 cm (19 51/64")	±170.7 cm (67 13/64")
150" (381 cm)	305 cm (120")	229 cm (90")	5.6 m (18' 3")	6.7 m (21' 10")	-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")	4.4 m (14' 7")	5.3 m (17' 6")	-213.0 cm (-83 7/8")	30.2 cm (11 7/8")	±102.4 cm (40 9/16")
100" (254 cm)	203 cm (80")	152 cm (60")	3.7 m (12' 2")	4.4 m (14' 7")	-177.5 cm (-69 27/64")	25.1 cm (9 29/64")	±85.3 cm (33 19/64")
80" (203 cm)	163 cm (64")	122 cm (48")	3.0 m (9' 9")	3.6 m (11' 8")	-142.0 cm (-55 29/64")	20.1 cm (7 29/64")	±68.3 cm (26 7/64")
70" (178 cm)	142 cm (56")	107 cm (42")	2.6 m (8' 6")	3.1 m (10' 2")	-124.3 cm (-48 29/64")	17.6 cm (6 29/64")	±59.7 cm (23 29/64")
60" (152 cm)	122 cm (48")	91 cm (36")	2.2 m (7' 4")	2.7 m (8' 9")	-106.5 cm (-41 19/16")	15.1 cm (5 19/16")	±51.2 cm (20 3/16")

The formula for picture size and projection distance
 χ: Picture size (diag.) (in/cm)
[m/cm]
 L1 (m) = 0.03706χ
 L2 (m) = 0.04438χ
 H1 (cm) = -1.77527χ
 H2 (cm) = 0.25143χ
 W (cm) = ±0.85344χ
[Feet/inches]
 L1 (ft) = 0.03706χ / 0.3048
 L2 (ft) = 0.04438χ / 0.3048
 H1 (in) = -1.77527χ / 2.54
 H2 (in) = 0.25143χ / 2.54
 W (in) = ±0.85344χ / 2.54



- 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-55401
Picture size (diagonal)	60" to 230" (16:10)
Focal length	21.2 mm (27/32") – 25.8 mm (1 1/64")
F no.	2.5
Throw ratio	1:1.5 – 1.8
Weight	Approx. 1,930 g (4.3 lbs.)
Depth of projector with the lens attached	656 mm (25 53/64")