



SHARP

AN-W9Z

English

Deutsch

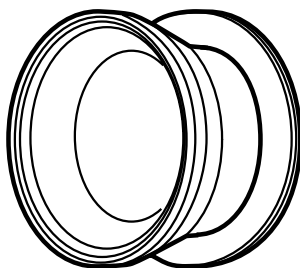
Français

Español

中文（簡）

日本語

Wide conversion lens for projector
Weitwinkel-Konversionslinse für projektor
Objectif de conversion de grand angle pour projecteur
Lente de conversión ancha para proyector
用于投影机的广角镜头
プロジェクター用ワイドコンバージョンレンズ

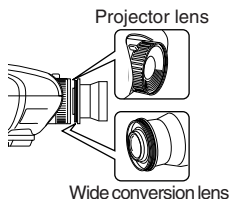


OPERATION MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUAL DE MANEJO
使用说明书
取扱説明書

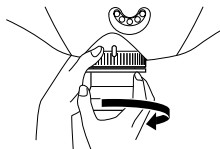


Mounting the Lens

- 1 Remove the wide conversion lens from its original box. Put the screw thread of the wide conversion lens and the projector lens together.



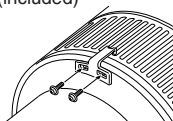
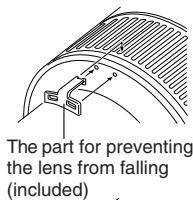
- 2 Fix the focus ring of the projector manually. Then turn the wide conversion lens clockwise slowly. (NOTE: Mounting the lens when the screw thread of both lenses is incorrectly set may cause damage. Make sure that the screw thread of both lenses is set correctly and then turn the wide conversion lens slowly.)



- 3 When the wide conversion lens has been mounted, set the part for preventing the lens from falling. (See the "Mounting the part for preventing the lens from falling" section in this manual.)

Mounting the part for preventing the lens from falling

- 1 Set the part for preventing the lens from falling as shown on the illustration. (Make sure that the part is attached to the outer ditch of the focus ring on the projector.)
- 2 Attach the two screws (included) using the included screwdriver.



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Adjust the picture size and focus

Refer to the “Zooming and Focusing” section in the Projector Operation Manual for details about adjusting the picture size and focus.



Before Calling for Service

- 1) Is the lens in focus? (See the “Zooming and Focusing” section in the Projector Operation Manual.)
- 2) Is the projection distance within the range of focus? (Check the projection distance charts).

Handling Precautions

- **Do not disassemble this lens.**

Please refer any maintenance and inspections, requiring an open cabinet to your authorized dealer.

- **Care**

- 1) Mounting of the wide conversion lens should be conducted in a dust free environment to avoid dust particles entering the optical path between the lens and projector.
- 2) When cleaning the lens, use compressed air or lens cleaning material.
- 3) Avoid cleaning the lens with abrasive materials as this may scratch the lens surface.

CAUTION

- **Do not pack and transport the projector with the wide conversion lens still attached.**
- Do not expose the projector to shock while the wide conversion lens is still attached.

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Specifications

Product type	Wide Conversion Lens for Projector
Model	AN-W9Z
Type of lens	Wide conversion lens
Picture size (diagonal)	50" to 150"
Focal length	26.1 ~ 35.3mm
F no.	3.0
Screen width to throw distance ratio	1.45 ~ 1.96:1
Dimensions	Ø 91.5 × 56.0
Weight	Approx. 410g

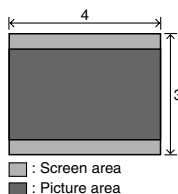
Throw distance chart

The replacement lens is a wide conversion lens. Once the lens is installed, set the picture size and the projection distance, referring to the table below.

Normal mode

When using a normal screen (4:3)

In case of setting the 16:9 picture to the full horizontal width of the 4:3 screen.



Screen size (4:3)			Projection Distance (y)	
Diag.	Width	Height	Maximum (y1)	Minimum (y2)
150"	120"	90"	19'9" (6.0 m)	14'7" (4.4 m)
100"	80"	60"	13'1" (4.0 m)	9'8" (2.9 m)
84"	67"	50"	10'12" (3.3 m)	8'1" (2.5 m)
72"	58"	43"	9'5" (2.9 m)	6'11" (2.1 m)
60"	48"	36"	7'9" (2.4 m)	5'8" (1.7 m)

The formula for screen size and projection distance

$$y1 = (0.04038x - 0.06318) \times 3.28$$

$$y2 = (0.03x - 0.06317) \times 3.28$$

x : Screen size (diag.) (inches)

y : Projection distance (feet)

NOTE

- There is an error of $\pm 3\%$ in the formula above.



Wide mode

When using a wide screen (16:9)

In case of displaying the 16:9 picture on the whole of the 16:9 screen.



■ : Picture area

Screen size (16:9)			Projection Distance (y)	
Diag.	Width	Height	Maximum (y1)	Minimum (y2)
150"	131"	74"	21'6" (6.6 m)	15'1" (4.8 m)
133"	116"	65"	19'1" (5.8 m)	14'1" (4.3 m)
106"	92"	52"	15'1" (4.6 m)	11'1" (3.4 m)
100"	87"	49"	14'3" (4.4 m)	10'6" (3.2 m)
92"	80"	45"	13'1" (4.0 m)	9'7" (2.9 m)
84"	73"	41"	11'12" (3.6 m)	8'9" (2.7 m)
72"	63"	35"	10'3" (3.1 m)	7'6" (2.3 m)
60"	52"	29"	8'6" (2.6 m)	6'2" (1.9 m)
50"	44"	25"	7' (2.1 m)	5'2" (1.6 m)

The formula for screen size and projection distance

$$y1 = (0.04423x - 0.06883) \times 3.28$$

$$y2 = (0.03268x - 0.06882) \times 3.28$$

x : Screen size (diag.) (inches)

y : Projection distance (feet)

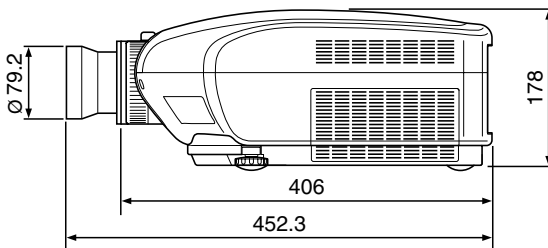
NOTE

- There is an error of $\pm 3\%$ in the formula above.

The specifications of the lens shift function are the same as the standard lens. Refer to the "Setting Up the Screen" section in the Projector Operation Manual.

Set-up Dimensions

Unit: mm



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SHARP CORPORATION



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