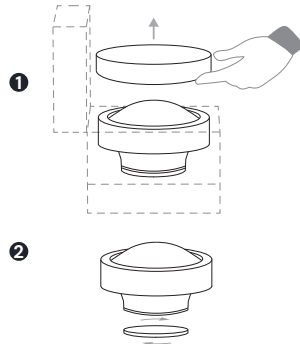




External Lens Instruction User Manual

1. External lens installation

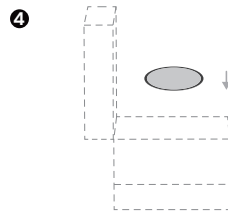


1.1 Take out the external lens and remove the two protective covers on the front and back.

Note: Please wear gloves when operating.



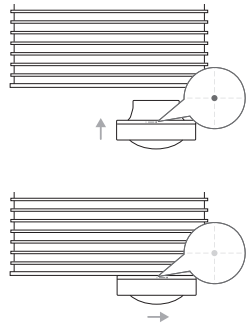
1.2: Use the suction cup tool to remove the high-gloss lens of the whole machine.



Note: The removed high mirror should face up, do not touch the back of the high mirror with your hands to prevent dirt and ensure the mirror surface is clean.

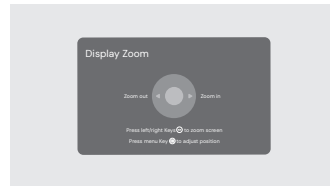


Manufacturer: VALERION TECHNOLOGY USA CO.,LTD
Address: 1312 17th Street, Unit Num 2955,
Denver, CO 80202, United States.
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Email: support@valerion.com

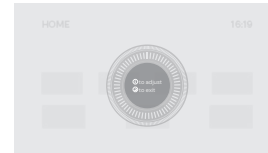


1.3 According to the red mark on the lens, face the whole machine and rotate it to the right.

2. External lens debugging



2.1 Adjust the overall projection ratio to the maximum TR 1.5.
2.2 Users can select zoom in to adjust to the screen size they need based on actual usage. After installing the external lens, TR is $1.5 \leq TR \leq 2.0$ (external lens TR 1.5-2.0)



2.3 After adjusting to the appropriate size, use manual focus and manual keystone correction to adjust to the best state.

Lens specifications

Item	Parameter	Note
DMD Size	0.47" DMD	
H	10.368mm	
V	5.832mm	
Pixel	5.4μm	
Wavelength	R, G, B, 643nm, 525nm, 465nm	WTW=3:5:2
F#	2.0-2.3	
Offset	100%	
Image Circle	φ15.9	
Throw Ratio	1.5-2.0	
Design Center	W-end 150 inches T-end 112 inches	
TV Distortion	1%	@ Reference Object Distance
Chromatic Aberration	Max 0.6 pixels	@ Reference Object Distance
Relative Luminance	"W 66% T 70%"	
MTF (93lp/mm)	"WIDE: >57% Tele: >50%"	Full Field
Lens Length	Refer to 3D	
Configuration	3P+1G	