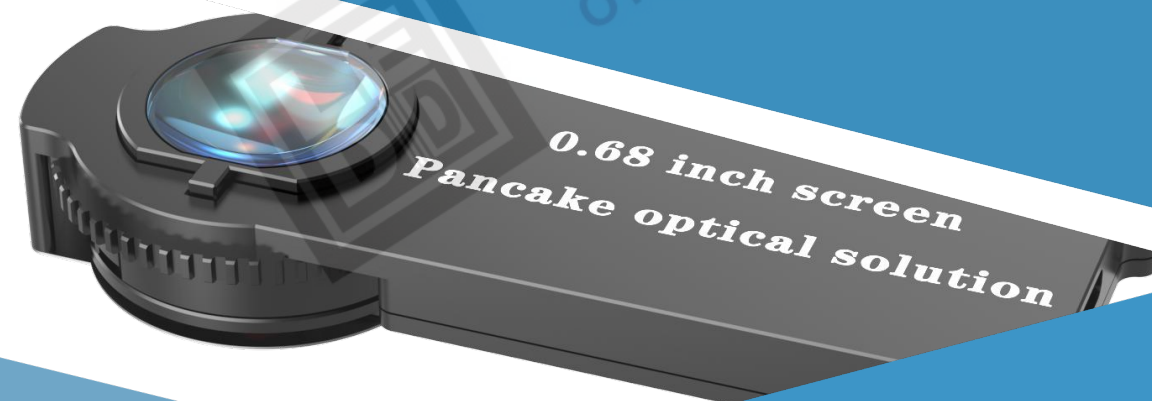




Innovative VR optical design
Low distortion, fast adaptation to OLED/LCD screens of different sizes
Highly liberalized on-demand customization
Tilt compensation adjustment mechanism and single-chip Pancake optical imaging

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TOPLITE
OPTICAL RESEARCH

VR Optical Lens
VR Engineering Development Module
Product Specification 2025

VR Optical Lens

V Series



Model NO.: V1



Model NO. : V2



Model NO. : V3

Main spec.

Lens model	V1	V2	V3
Imaging Way	Refractive imaging with multiple lens combinations		Pancake
Focusing lehgth	2.9mm	4.1mm	2.1mm
Max. Height	31.2mm	29.2mm	14.9mm
Lens weight	28.6g	24.4g	19g
Screen size	0.71"	0.49"	1.03"
FOV	55°	46°	85°
Human eye adaptability	-12D ~ +5D, Continuously adjustable		
Distortion	2%	<1%	1.74%

P Series



Model No.: P1



Model No.: P2



Model No.: P3

Main spec.

Lens model	P1	P2	P3
Imaging way	Single-lens Pancake		
Focusing length	5.4mm	3.85mm	5.2mm
Max. height	19.9mm	16.6mm	27.4mm
Lens weight	20.7g	10.5g	35g
Screen size	0.71"	0.49"	1.03"
FOV	58°	54°	60°
Human eye adaptability	-12D ~ +5D, Continuously adjustable		
Distortion	-1.58%	-1.2%	-1.8%

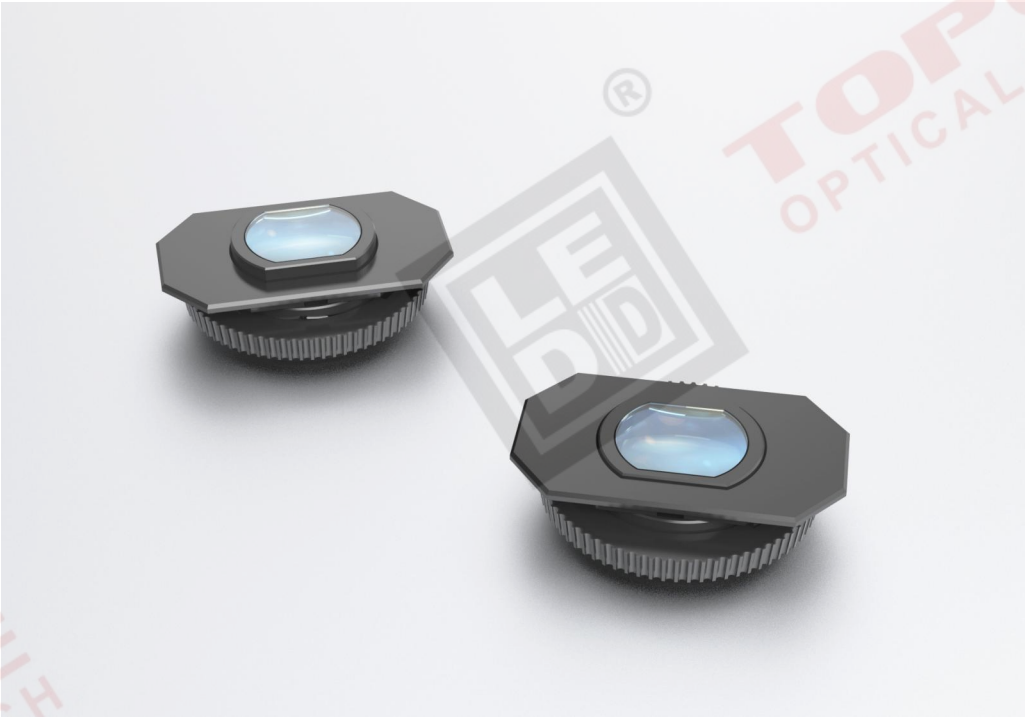
PW Series



Model No.: PW1



Model No.: PW2



Model No.: PW3

Main spec.

Lens model	PW1	PW2	PW3
Imaging way	Single-lens Pancake		
Focusing length	2.3mm	1.8mm	3.3mm
Max. height	16.8mm	13mm	19.3mm
Lens weight	16.6g	14.2g	23.6g
Screen size	0.68"	0.49"	1.03"
FOV	80°	64°	96.4°
Human eye adaptability	-12D ~ +5D, Continuously adjustable		
Distortion	2%	0.51%	<5%

VR Engineering Development Module

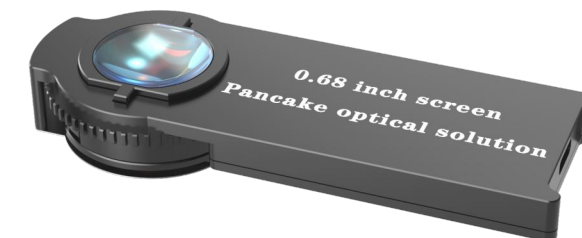
- This series has monocular and binocular options;
- All modules use a single-lens Pancake imaging solution;
- The screen has been adapted, and the module has its own communication interface.



Model No. : 0.39 DEMO



Model No.: 0.49 DEMO



Model No.: 0.68 DEMO



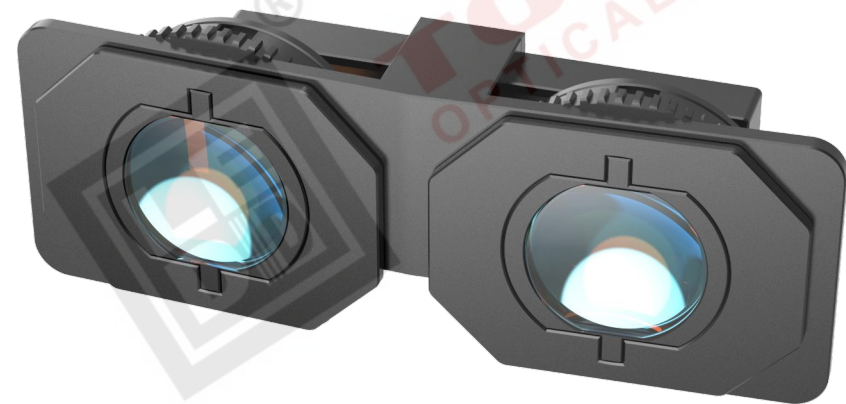
Model No.: 1.03 DEMO



Model No. : 2.1 DEMO

Main spec.

Model	0.39 DEMO	0.49 DEMO	0.68 DEMO	1.03 DEMO	2.1 DEMO
Screen	MENGXIAN 0.39"	SEEYA 0.49"	SONY 0.68"	SEEYA 1.03"	2.1"
Max. Brightness	1000	2250	1800	2250	480
Resolution	1024*768	1920*1080	1952*1232	2560*2560	1600*1600
FOV diagonal	39°	50°	80°	96.4°	111°
FOV horizontal	34°	44°	72°	67°	79°
Distortion	<5%				
Exit pupil diameter	13.7mm	20mm	22.5mm	28mm	41mm
Exit pupil distance	12~15mm				
Comm	DP Protocol Type-C				HDMI Micro USB



Model No.: 0.71 DEMO-2



Model No.: 1.03 DEMO-2



Model No.: 1.35 DEMO-2

Main spec.

Model	0.71 DEMO-2	1.03 DEMO-2	1.35 DEMO-2
Screen	MENGXIAN 0.71"	SEEYA 1.03"	BOE 1.35"
Max. Brightness	1500	2250	1200
Resolution	1920*1080	2560*2560	3552*3840
FOV diagonal	83°	96.4°	108°
FOV horizontal	75°	67°	77°
Distortion	<5%		
Exit pupil diameter	22.5mm	28mm	33mm
Exit pupil distance	12~15mm		
Comm	DP Protocol Type-C		