

**Plug in the inform**

Screen size (diagonal in inches) **5.5**

display width (in pixels) **2960**

display height (in pixels) **1440**

Is this a standalone VR goggle (not requiring a smartphone)? **No**

Binocular Distance Interpupillary distance (in mm); **Please limit between 40 to 70mm** **60**

**OUTPUT**

display width (pixels)	2960
display height (pixels)	1440
screen half width (mm)	2.472896
screen height (mm)	2.406061
Screen diagonal (inches)	5.5
Pixels per inch (calculated)	598.4885
Total screen width (inches)	4.945793
Total screen height (inches)	2.406061
Monocular field of view (degrees)	<b>45.84036</b>
Minimum Snellen Equivalent	<b>37</b>
Maximum Deliverable Convergence Demand (binocular, in prism diopters)	<b>23.24066</b>

*ation in the yellow colored cells from the device / Vi*

Half or full screen diagonal?

Half or full screen?

Enter headset reported field of view

---

← This value is calculated horizontal field of view bas

← This value will be approximate for standalone VR g

---

**VR google specifications or measurements**

Please note that some standalone VR google manufacturers (such as Vive) may list the specifications in terms of per eye/per view and not the entire screen. Therefore, carefully select the half or full option. For a smartphone, full screen specifications are typically listed.

Measure/enter the lens focal length (in mm)

78.4

Measure the visible display for one eye (mm)

66.3

based on the visible display size

goggle, due to uncertainty in the eye to lens distance.

Device	Screen size in inches			Screen Resolution		Pixel per inch	VR Goggle Type
	Width	Height	Diagonal	Horizontal	Vertical		
Samsung Galaxy S8	5.22	2.54	5.8	2960	1440	567.53	Sunny Peak
	5.22	2.54	5.8	2960	1440	567.53	Zeiss
	5.22	2.54	5.8	2960	1440	567.53	Gear
	5.22	2.54	5.8	2960	1440	567.53	VR Box
iPhone X	5.27	2.43	5.8	2436	1125	462.63	Sunny Peak
	5.27	2.43	5.8	2436	1125	462.63	Zeiss
	5.27	2.43	5.8	2436	1125	462.63	Gear
	5.27	2.43	5.8	2436	1125	462.63	VR Box
LG V30	5.37	2.68	6	2880	1440	536.66	Sunny Peak
	5.37	2.68	6	2880	1440	536.66	Zeiss
	5.37	2.68	6	2880	1440	536.66	Gear
	5.37	2.68	6	2880	1440	536.66	VR Box
Samsung Galaxy S7	4.45	2.50	5.1	2560	1440	575.92	Sunny Peak
	4.45	2.50	5.1	2560	1440	575.92	Zeiss
	4.45	2.50	5.1	2560	1440	575.92	Gear
	4.45	2.50	5.1	2560	1440	575.92	VR Box
HTC vive	2.41	2.68	3.6	1080	1200	448.45	
Rift DK2	2.47	2.78	3.72	960	1080	388.44	

Focal distance (mm)	Min. Snellen Equivalent (1 bar width)	Monocular Horz. Field of View (degrees)	Binocular IPD (mm)	Vergence left for training (binocular, in prism diopters)
78.4	39	45.80	60	23.25
32.5	95	91.08	60	99.66
34.2	90	88.16	60	94.56
68.2	45	51.80	60	33.09
78.4	48	46.20	60	23.25
32.5	116	91.63	60	99.66
34.2	110	88.71	60	94.56
68.2	55	52.23	60	33.09
78.4	42	46.99	60	23.25
32.5	100	92.71	60	99.66
34.2	95	89.79	60	94.56
68.2	48	53.10	60	33.09
78.4	39	39.60	60	23.25
32.5	93	81.95	60	99.66
34.2	89	79.07	60	94.56
68.2	44	44.97	60	33.09
35.1	111	82.14	60	91.98
36.4	124	81.54	60	88.38