



VUZIX

DISPLAY ENGINES

Monochrome microLED Projector

Currently Used In:

**VUZIX
SHIELD™**

Vuzix is a leader in optics technology for near eye displays, and one of the largest suppliers of smart glasses in the world.

Our advanced display engines, manufactured by Vuzix and available for client custom solutions, present breakthrough performance advantages in power consumption and optical metrics, and represent the next step in waveguide technology.

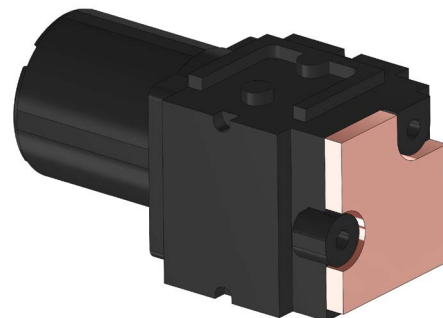
PANEL	NOTES	UNIT VALUE
Weight		0.49g
Volume		0.27cc
Total Resolution		660x504px
Active Resolution		640x480px
Pixel Dimension		4 μ m
Pixel Size		1.3 μ m
Display Size	H	2.640mm
	V	2.016mm
	D	4:3
Aspect Ratio		
LENS		
Working Distance		Inf
Image Circle		3.4 ϕ mm
Peak spectrum	Green	525nm
F. No	F-Number	1.6
EPD		3.5mm
Focal Length	EFL	6.45mm
Field of view	Diagonal	30°
Brightness	At 1.3 W drive power	>1.7M Cd/m ²



Full Color microLED Projector

Currently In Development

Vuzix continues to pioneer what's possible in practical augmented reality solutions. Our next generation products are set to employ a robust, full color display engine using a microLED display from JBD.

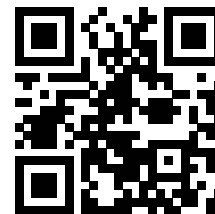


SPECIFICATION	NOTES	DESIGN TARGET
Resolution	JBD 0.13" R, G and B micro LED panel	640 x 480px
Volume		1.7cc
Diagonal FOV	H 24° x V 18° x D 30°	30°
Pupil diameter		4mm
Calibrated color point	Calibration target: 6500K	$x=0.313\pm0.020$ $y=0.329\pm0.020$
Engine efficiency		$\geq 20\%$
Brightness output		5.5lm
Brightness uniformity		$\geq 70\%$
Color uniformity	Represented by delta x delta y	$x=0.313\pm0.025$ $y=0.329\pm0.025$

Our smart glasses and component technologies are the result of extensive research, design, and development, providing thin, ultralight and ergonomic waveguide designs that combine to form some of the most desirable AR products on the market. Vuzix provides full customer ready solutions, modular sub-systems, and full custom waveguides with display engine designs built to specification.



Discover how our innovative optics technologies can integrate into your system.



MORE INFO: Visit vuzix.com/pages/oem or scan the QR code.

VUZIX®

NASDAQ: VUZI

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