

ZD-64/S

ZERO DISTORTION SEE-THROUGH DISPLAY



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The ZD-64/S head mounted display has zero see-through distortion and provides high resolution, full color symbology and video imagery over a 64-degree diagonal field of view with minimal peripheral obscuration.

**VP VISION
PRODUCTS**

ZD-64/S ZERO DISTORTION SEE-THROUGH HMD

Vision Products has developed a first-in-class, zero distortion (ZD), see-through eyepiece based on its freeform prism (FFP) technology. After 15 years of FFP design experience, Vision Products had a breakthrough discovery in producing an injection molded see-through prism eyepiece that is as distortion free and as clear as looking through a glass windowpane.

The ZD-64/S head mounted display (HMD) is an advanced device that enhances user experiences through augmented reality by overlaying high-resolution, full-color symbology and video imagery. Equipped with a 2048 x 2048 resolution OLED display, the HMD delivers an ultra-sharp image across an expansive 50° horizontal by 40° vertical field of view (FOV) that surpasses the 40° circular FOV of standard night vision goggles (NVGs), making the ZD-64/S ideal for applications requiring both exceptional visual clarity and broad situational awareness.

A standout feature of the ZD-64/S is its innovative FFP eyepiece, which is designed to ensure minimal peripheral obscuration, allowing users to maintain

an unobstructed view of their surroundings. Additionally, the FFP eyepiece delivers zero see-through distortion, ensuring that users experience seamless integration between the digital overlay and the real world.

The ZD-64/S was designed to be mounted to either a helmet or a soft-mount using a standard NVG mount that allows the HMD to be easily flipped up and stowed when not in use.

The ZD-64/S has adjustments for fore/aft, vertical position, and interpupillary distance, ensuring that users always have a correct fit. Its large exit pupil and eye relief provide for a comfortable viewing experience while on the move and during periods of prolonged operation.

Vision Products is a pioneer in the development and deployment of innovative photonics solutions for military and commercial markets. Vision Products personnel have been designing head mounted displays for over 35 years and have built some of the world's most successful HMDs for use in extremely challenging environments.

SPECIFICATIONS

Parameter	ZD-64/S
Eyepieces	Zero Distortion Prism
Refresh Rate	120 Hz
Binocular Overlap	100%
Diagonal Field of View	64°
Horizontal Field of View	50°
Vertical Field of View	40°
Display Format (per eye)	2048 x 2048 pixels, full color
On-axis Exit Pupil Diameter	10 mm
Off-axis Exit Pupil Diameter	7 mm
Eye Relief	25 mm
Interpupillary Adjustment	55 to 75 mm
Mount	AKA2*
Weight	298 grams**
Video Input	DisplayPort over USB-C
Power	Meets USB PD (15 W) specification

* Additional mounts available upon request (e.g., ANVIS)

** Binocular weight only (weight of driver not included)