

HD BINO

The Rugged HD Binocular is a head mounted display (HMD) system for nonstandard environments. Head worn and hands free, it replaces a direct-view display while enhancing the capabilities of the user. The system is smaller, lighter and consumes less power than a traditional monitor. This display system has been specifically developed to support light-secure, high definition imaging of advanced EO/IR sensors such as the SeaFLIR 380-HD. It can also be used to monitor ISR video from alternative sources such as computers, cameras, UAVs, UGVs, ROVs, and other remote networks such as perimeter security systems. Simple controls allow the operator to quickly adjust the display to accommodate all environmental conditions with little to no training required.



The displays are independent in nature and are daisy-chained to create a binocular system. This architecture results in a single small cable to the head, and a short jumper cable between displays. The HD Bino leverages a combination of the Wilcox G24 helmet mount, PVS-14 Bridge, and PVS-15 Gen 2 shoes to provide the user with a world class helmet mount and adjustment system. The displays also replicate the PVS-14 eyepiece to leverage applicable available accessories such as eye cups, light filters, and lens caps.

PRODUCT TECHNICAL SPECIFICATIONS:

Parameter	Specifications
Display	Full Color OLED
Resolution	Option 1: 720p & SXGA Option 2: 1080p & WUXGA
Field of View	30° Diagonal
Brightness	Option 1: 800 cd/m ² Option 2: 150 cd/m ²
Contrast Ratio	Option 1: 10,000:1 Option 2: 1000:1
Weight	7 oz per display; 1.6 lbs for full binocular config. with Wilcox components
Video Inputs	3G, HD SDI
Power Input	5-12V ± 10 %
Power Consumption	<6W binocular, < 4W monocular
Environmental Standard	MIL-STD-810G