High-Definition Monocular Display (HDMD)

The HDMD is a rugged wearable display for specialized environments. It provides a light-secure view of high contrast, high resolution imagery from various sensors and radios. The SWaP optimized module is MIL-STD-810 rugged and can be mounted to PALS webbing to accommodate various kits and use cases. A single connector provides all electrical interfaces, and is protected by a physical shroud and tethered cap. All supported video modes are auto detected and displayed. Three buttons intuitively provide all required controls (on/off, brightness up/down). In combination with low brightness settings, the HDMD uses the L3Harris PVS-14 shuttered eye guard to manage light signature (NSN 6650-01-444-1229).

Parameters	Description
Display Type	Full color OLED
Native Resolution	1280 x 1024
Field of View	30° Diagonal
Brightness	150 cd/m^2 typical
Contrast Ratio	> 10,000:1
Module Weight	8.2oz (232g)
Video Inputs	TMDS in multiple formats (480p to 1080p)
Power Input	5-12V ± 10%
Power Consumption	1.25W nominal, 1.5W max
Readiness	< 500ms
Ingress Protection	IP67
Storage Temperature	-51C to +85C
Operating Temperature	-46C to +71C

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