

# HEAD MOUNTED DISPLAYS

## ProView XL40/50 STm

The ProView™ XL 40/50 STm is a high resolution monochrome Head Mounted Display designed for use in augmented reality and training/simulations applications requiring see-through capabilities. This system features XGA resolution performance for those demanding tasks that require 1024 x 768 resolution per eye.

The ProView™ XL 40/50 STm incorporates Kaiser Electro-Optics' proprietary technology to achieve unparalleled image quality in a user-friendly light weight design.

The optical modules are mounted on the same ergonomically designed headband system used on all ProView™ HMDs.



<b>PERFORMANCE PARAMETERS</b>	<b>DISPLAY</b>	Type: (2) 1024H x 768V, active matrix TFT Color: Monochrome - green Resolution: 2.2 arcmin/pixel Luminance: 20 ftL (adjustable) Contrast: 25:1 (adjustable)
	<b>OPTICAL</b>	Field of View/Overlap: 28° (V) x 35° (H) - 100% overlap (ProView XL40STm) 28° (V) x 49° (H) - 25% overlap (ProView XL50STm) Transmission: 24% photopic Optical design form: Dual reflexive combiner w/independent optical channels Eye Relief: Eyeglasses compatible, 50mm maximum eye relief Exit Pupil: Non pupil forming
	<b>MECHANICAL</b>	IPD adjustment: Readily accessible on each display module IPD Range: Meets 95 percentile male/female adults HMD Weight: 28 ounces Headtracker: Accommodates magnetic and inertial tracker sensors
	<b>CONTROL UNIT</b>	Input Video: (1 or 2) XGA 1024 x 768, non-interlaced Autosense for stereo or mono operation (ProView XL40STm) Sync Formats: Sync on video, Composite sync or Separate H/V sync (auto-detects) Vertical Rate: 60 Hz Cable Length: 12 feet Video Outputs: L/R XGA video outputs for repeater monitor(s) Front Panel Controls: Power on/off Remote Controls: Power on/off, contrast and brightness Indicators (LED): Video input, left/right (indicates valid video input) Connectors: (2) 15 pin HD-DSUB, female, (video in) (2) 15 pin HD-DSUB, female, (video out for monitors) (2 sets) BNC barrel connectors, RGB H&V, (video in) 9-pin D connector for remote control I/F Power: 120 VAC, 60 Hz, or 240 VAC, 50 Hz, 25W

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**ELECTRO-OPTICS, INC.**  
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