

The ProView™ XL35 Head Mounted Display



The XL35 is the newest member to the ProView™ family of head-mounted displays. Its full-color XGA performance is a welcome addition for demanding tasks that require ultra-high resolution.

The ProView™ XL35 achieves its unparalleled color performance and high contrast ratio using Kaiser Electro-Optics' (KEO) proprietary technology. Its expanded color gamut takes the XL35's performance far beyond other display systems.

The XL35 utilizes the ProView™ comfort-fit headband system.

Performance Parameters*

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| DISPLAY | Type LCD Resolution/Eye Brightness Contrast | Full color, active matrix TFT, high speed polysilicon LCDs, XGA Resolution (1024 x 768) XGA resolution is 1024 horizontal pixels by 768 vertical lines 1.64 arcmin/color group 5-50 fL (adjustable) 40:1 |
| OPTICAL | Field of View Transmission Optics Eye Relief Exit Pupil Overlap Stereo/Mono Color Coordinates | 35° diagonal, 21° (V) x 28° (H) Non see-through Color-corrected, aspheric refractive lens - independent optical paths for each eye Eyeglasses compatible Non pupil forming 100% Yes Red: $u' = 0.5099$ $v' = 0.5228$ Green: $u' = 0.1033$ $v' = 0.5774$ Blue: $u' = 0.1314$ $v' = 0.2250$ |
| MECHANICAL | IPD IPD Range HMD Weight Headtracker | Independent left/right, accessible on each display module 55 – 75 mm 32 ounces Accommodates magnetic and inertial tracker sensors |
| CONTROL UNIT | Video Inputs Horizontal Scan Rate Vertical Scan Rate Genlocked Inputs Cable Length Video Outputs Controls Indicators (LED) Connectors Power | One or two XGA 1024 x 768, H&V – TTL, Analog 0.7 V P-P, 75 ohms, 60 Hz video inputs Autosense for stereoscopic or monoscopic operation Internal and external sync 48.363 kHz 60.004 kHz Independent phased locked loops for left and right eye 20 feet 2 XGA video loops to display monitor Audio adjust Power on/off Video in XGA, 15 pin DA, female, (video in) 2 XGA, 15 pin DA, female, (video out for monitor) 2 BNC barrel connectors, RGB H&V, (video in) 2 sets RCA connectors, (stereo audio com pass through) 2 (cables are not provided to either video or audio connectors) 85 - 264 VAC, 47-440 Hz, 25W (power cable included) |

*Specifications are preliminary and subject to change

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