

Varjo Aero: For those who don't settle for anything but complete immersion.

Headset

€1990

+tax



With edge-to-edge clarity and a resolution of 35 pixels per degree, Varjo Aero offers industry-leading fidelity for demanding professionals and VR users alike.

Crystal clear variable resolution aspheric lenses eliminate ghost rays and reflections. The virtual world comes alive with true-to-life colors, brightness and contrast levels.

Advanced ergonomics with reduced weight and active cooling allow the user to stay immersed for longer periods in total comfort.

No annual subscription fee.

Technical specifications

| | VARJO XR-3 | VARJO VR-3 | VARJO AERO |
|----------------------------------|--|--|---|
| Display & Resolution | Full Frame Bionic Display with human-eye resolution. Focus area (27° x 27°) at 70 PPD uOLED, 1920 x 1920 px per eye Peripheral area at over 30 PPD LCD, 2880 x 2720 px per eye Colors: 99% sRGB, 93% DCI-P3 | Full Frame Bionic Display with human-eye resolution. Focus area (27° x 27°) at 70 PPD uOLED, 1920 x 1920 px per eye Peripheral area at over 30 PPD LCD, 2880 x 2720 px per eye Colors: 99% sRGB, 93% DCI-P3 | Dual Mini LED LCD; 2880 x 2720 px per eye Brightness: Calibrated to 150 NIT Colors: Calibrated with coverage of 99% sRGB, 95% DCI-P3 Refresh rate: 90 Hz |
| Field of View | Horizontal 115° Diagonal: 134° at 12 mm eye relief | Horizontal 115° Diagonal: 134° at 12 mm eye relief | Horizontal 115° Diagonal: 134° at 12 mm eye relief |
| Refresh rate | 90 Hz | 90 Hz | 90 Hz |
| Hand tracking | Ultraleap Gemini (v5) | Ultraleap Gemini (v5) | – |
| Comfort & Wearability | 3-point precision fit headband Replaceable, easy-to-clean polyurethane face cushions Automatic IPD 57-73mm | 3-point precision fit headband Replaceable, easy-to-clean polyurethane face cushions Automatic IPD 57-73mm | 3-point precision fit headband Replaceable, easy-to-clean polyurethane face cushions Automatic IPD 57-73mm |
| Weight | 594 g + headband 386 g | 558g + headband 386 g | 487 g + headband 230 g (including counterweight) |
| Connectivity | Two headset adapters in-box Two USB-C cables (5 m) in-box PC Connections: 2 x DisplayPort and 2 x USB-A 3.0+ | Two headset adapters in-box Two USB-C cables (5 m) in-box PC Connections: 2 x DisplayPort and 2 x USB-A 3.0+ | Headset adapter and USB-C cable (5-metre) in-box PC Connections: DisplayPort and USB-A 3.0 |
| Positional Tracking | SteamVR™ 2.0 (recommended) or 1.0 tracking Varjo inside-out tracking utilizing RGB video pass-through cameras (beta) | SteamVR™ 2.0 (recommended) or 1.0 tracking | SteamVR™ 2.0 (recommended) or 1.0 tracking |
| Eye tracking | 200 Hz with sub-degree accuracy; 1-dot calibration for foveated rendering | 200 Hz with sub-degree accuracy; 1-dot calibration for foveated rendering | 200 Hz with sub-degree accuracy; 1-dot calibration for foveated rendering |
| Audio | 3.5mm audio jack with microphone support | 3.5mm audio jack with microphone support | 3.5mm audio jack with microphone support Metal chassis in-ear headphones with mic in-box |
| Mixed reality | Ultra-low latency, dual 12-megapixel video pass-through at 90 Hz | – | – |
| XR Depth | LiDAR + RGB fusion, 40 cm–5 m operating range | – | – |