



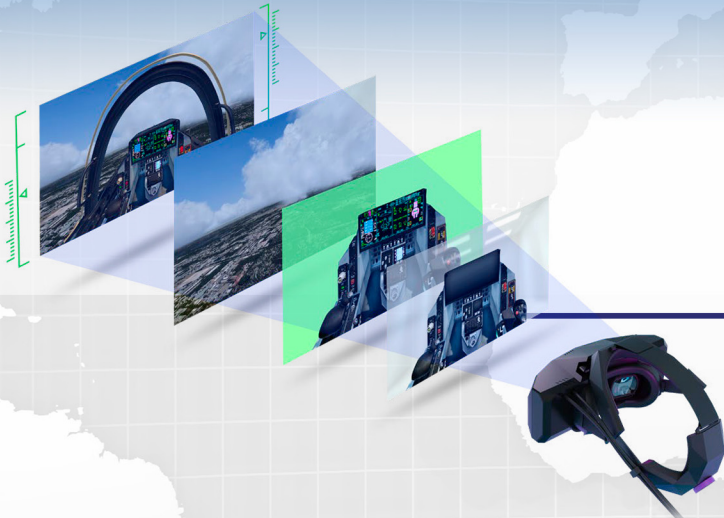
## VR ENGINEERS - XTAL 3 NEO PILOT DEDICATED HEADSET

### MAIN CHARACTERISTICS

Representing the state-of-the-art technology used in next-generation training, the XTAL 3 Mixed Reality headset was developed to meet the high requirements of professional pilots. Besides the common attributes of the XTAL 3 Virtual Reality headset, it has the embedded mixed reality module. MR technology has the potential to revolutionize pilot training by providing a highly immersive and interactive learning experience that can improve safety, reduce costs, and enhance the effectiveness of training programs.

### ADVANCED MASKING

With advanced masking using the combination of green screen function and 3D object mapping, any environment and airplane cockpit can be easily masked and used for mixed reality simulation.



### FIDELITY

The Fidelity level and combination of front-facing cameras and matching 4k resolution screens enable pilots to read the instrument panels and MFDs.

### TECHNICAL SPECIFICATIONS

<b>VIRTUAL REALITY RESOLUTION</b>	3840x2160 per eye		<b>DISPLAYS</b>	Two fast-switching 4K LCD displays for mixed reality
<b>VIRTUAL REALITY REFRESH RATE</b>	75 Hz @ 4K per eye, 120 Hz @ QHD per eye		<b>EYE TRACKING</b>	Gaze analyses, heat map visualization, running native 120 Hz (up to 210 Hz)
<b>FIELD OF VIEW</b>	180° horizontal, 120° vertical (maximum experimental values) 140° horizontal, 90° vertical (default values)		<b>POSITIONAL TRACKING</b>	Lighthouse (SteamVR)/ART/Optitrack/Polhemus/Vicon or custom
<b>MIXED REALITY RESOLUTION &amp; REFRESH RATE</b>	Foveated profiles: up to 3072x3040 @75Hz Uncompressed profiles: 4056x3040 @30Hz 3040x3040 @40Hz 2028x1512 @120Hz / @90Hz / @75Hz 1536x1520 @120Hz / @90Hz / @75Hz		<b>HAND TRACKING</b>	Embedded Ultraleap Sensor
<b>MIXED REALITY FIELD OF VIEW *</b>	Horizontal FOV	Vertical FOV	<b>IPD</b>	Auto IPD range 56-74 mm
<b>HIGH FIDELITY LENS</b>	60°	40°	<b>HEADSET</b>	
<b>BALANCE LENS</b>	80°	60°	<b>CONNECTIVITY</b>	VirtualLink (5 m/16.4 ft) cable or DisplayPort 1.4 , USB 3.2 gen2, Power 12V, 3A (5 m/16.4 ft)
<b>IMMERSIVE LENS</b>	125°	85°	<b>OS</b>	Microsoft Windows
<b>INFINITE LENS</b>	170°	120°	<b>SOFTWARE SUPPORT</b>	Steam VR and OpenXR drivers, Unity, Unreal, and other game engine plugins, C++ libraries (DirectX, OpenGL, Vulkan)
			<b>SIMULATION SUPPORT</b>	Commercial: Prepar3D, DCS World, X-Plane 11/12, Microsoft Flight Simulator, Aerofly FS, FlyInside Professional: Prepar3D, MCS, X-Plane 11/12, Bohemia Interactive Simulations (VBS3, VBS4, Blue IG), MAK, Simigon, multiSim, Metrea
			<b>WEIGHT (without head strap)</b>	700 g
			<b>DIMENSIONS (headset only)</b>	293 x 123 x 113 mm

\*The values may differ depending on the software settings and hardware version and used measurement method.