K-Sim® Navigation VR Binocular

Enhancing Maritime Training with Binoculars

In maritime settings, binoculars serve as indispensable tools for captains, navigators, and crew members alike. These vital instruments facilitate the detection of remote landmarks, ensure accurate identification of navigational aids, aid in monitoring surrounding vessels, and assist in the assessment of potential hazards.

All K-Sim Navigation class A and B simulators come equipped with an integrated binocular view. As we continue to innovate, we are pleased to introduce our latest offering: Virtual Reality (VR) Binoculars, designed as a fully-integrated headset solution. This state-of-the-art feature provides a cost-effective and immersive binocular training experience for students and course participants alike.

Our VR Binocular headset solution not only minimizes installation and hardware expenses but also guarantees a smooth and intuitive operational experience for students. To provide expansive coverage of the bridge area, the package includes two strategically placed base stations, enabling dynamic tracking of head and bodily movements. Furthermore, we have eliminated the head-strap in favor of a design that more authentically replicates the use of traditional binoculars.

Kongsberg Maritime Simulation

We provide advanced simulation systems for maritime education, training and studies.

Our K-Sim simulators range from full-scale bridge simulators with realistic features to cloud-based training enabling engaging exercises anytime and anywhere.

Through our training solutions students and crew will have efficient and realistic training that builds vital skills and promote safety, cost-efficiency and sustainability in operations at sea.

Training objectives and Specifications

The K-Sim Navigation – VR Binocular training module is tailored to specialize in long-range observational skills. This enables students and participants to discern objects, structures, or landmarks that might otherwise remain obscured to the naked eye.

The training aids in the precise identification of navigational markers, lighthouses, buoys, forthcoming weather patterns, and other distant aids to navigation. This enriches the educational experience by allowing for accurate position fixing and meticulous course-plotting.

VR Bridge Wing features & details

Take bearing by use of magnetic compass readback

Estimate range to, or size/height of an object by use of rangefinder reticlec

Head straps are removed for usage as ordinary binoculars

HTC Vive Pro 2 - Specifications

Display LCD	Double RGB Low persistence
Standard resolution	4896 × 2448 at 120Hz
Resolution each eye	2448 × 2448
Field of View (FOV)	120°
System OS	Windows 10
Head strap	Yes
Integrated speakers	Removed

Base Station 2.0

Number required	2 to 4
Tracking area	5×5 meters (2)
	10 × 10 meters (4) nominal
Tracking FOV	160° Horizontal, 115° Vertical

Note:
Specifications are subject to change without any further notice.

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