

# VizMove Projection VR

## Creation Through Collaboration

VizMove Projection VR is a complete hardware and software solution with everything you need to create and experience virtual reality content with your team. Projection VR creates virtual worlds via 3D projections in a “cave” like environment with users wearing lightweight 3D glasses. VizMove is well suited for a broad range of applications including design visualization, architectural walk-throughs, industrial training, and behavioral research.

- Visualize designs and complex environments
- Move at scale through the virtual world with high-precision tracking for both head and hands
- Share virtual experiences with entire groups to collaborate on data and designs
- Interact and navigate intuitively with position-tracked wireless controller

## VizMove Projection VR Core Features

**Development Ready:** Pre-configured system has everything you need to create sophisticated VR applications.

**Scalable:** Designed for expansion and customization. Add projectors to support larger audience and increase the tracking area as your needs grow.

**Vizard:** Rapidly create a wide range of immersive 3D experiences with the most powerful, innovative virtual reality development platform.

**Navigation:** Freely walk around with wide-area motion tracking and intuitively explore a 3D virtual environment.

**Collaboration:** Tap into the power of social presence and review immersive 3D environments with small or large teams.



Visualize designs with your team via large scale 3D projections.

## System Components

**Lenovo ThinkStation:** Certified by WorldViz for optimal performance and rendering of 3D projection VR applications.

**Vizard:** Everything you need to build complete, interactive VR applications.

**PPT Motion Tracking System:** High precision motion tracking. 4 sensor wide-area projection system includes motion tracking for both head and hands.

**3D Projectors:** Two high quality short-throw projectors to immerse large audiences in virtual environments with zero footprint.



WorldViz PPT cameras enable sub-millimeter precision tracking within large, walkable spaces.

# Technical Specifications:

## Environmental Conditions

- VizMove Projection VR requires the corner of a room with either empty white walls or screens
- Dark room with controlled lighting (LED, Fluorescent or Xenon lighting only) and no sunlight entering the room
- Max image size of projection is 4.25m wide

## Tracking System

- Six Degrees-of-Freedom optical-inertial tracking
- Less than 12 ms latency
- Provides a tracking area of approximately 20m<sup>2</sup> (dependent on ceiling height and other environmental factors)
- Extended tracking area packages are available
- Mounting brackets, network cables, calibration rig and software are included

## User Capabilities

- VizMove Projection VR supports 5 users wearing glasses at once\*
- Only 1 user is being tracked at a time

\*Can add users by purchasing more 3D glasses



Our PPT wand is fully motion tracked and allows users to interact with 3D objects and navigate virtual worlds.



Vizard's rendering engine powers large environments at scale with high-quality graphics and dynamic lighting.

## Other VizMove Systems:

All VizMove Systems include everything you need to create and experience interactive virtual reality applications. Select the VizMove System that's right for you:

### Seated VR Compact and Portable

- Lenovo ThinkStation
- Vizard software
- Virtual reality headset
- (Optional) Laptop plus travel cases

### Standing VR Precision Tracking

- Lenovo ThinkStation
- Vizard software
- Virtual reality headset
- 2 sensor PPT motion tracking system, PPT Wand
- Trackable area of approx. 10m<sup>2</sup>\*
- (Optional) Laptop plus travel cases

\* Tracking area is dependent on ceiling height and other environmental factors

### Walking VR Wide-area Motion Tracking

- Lenovo ThinkStation
- Vizard software
- Virtual reality headset
- 4 sensor PPT motion tracking system, PPT Wand
- Trackable area of approx. 50m<sup>2</sup>\*
- (Optional) Laptop plus travel cases

\* Tracking area is dependent on ceiling height and other environmental factors

## About WorldViz

WorldViz is the industry leader in immersion-ready virtual reality (VR) solutions. WorldViz's patent-pending interactive visualization and simulation technologies are deployed across 1500+ Fortune 500 companies, academic institutions and government agencies. WorldViz's core products are Vizard, the premier development platform for professional VR application design, and VizMove, the world's only enterprise-class VR software and hardware solution. WorldViz also offers PPT, a high-precision wide-area motion tracking system, as well as professional consulting and content creation services. WorldViz technology enables users to replace physical processes with immersive virtual methods. Applications range from design visualization and industrial training to interactive education and scientific research.

