# MOTION CAPTURE FOR HUMAN TASK

**haption**

Motion Capture for Human Tasks is a software add-on for Dassault Systemes 3D Experience™. It enables interactive real-time simulation with digital human capabilities inside a virtual environment, while maintaining all basic functions. The user can simulate manual operation: Accessibility testing, Visibility study, Operator training, Ergonomic assessment, Workplace simulation, Collaboration work

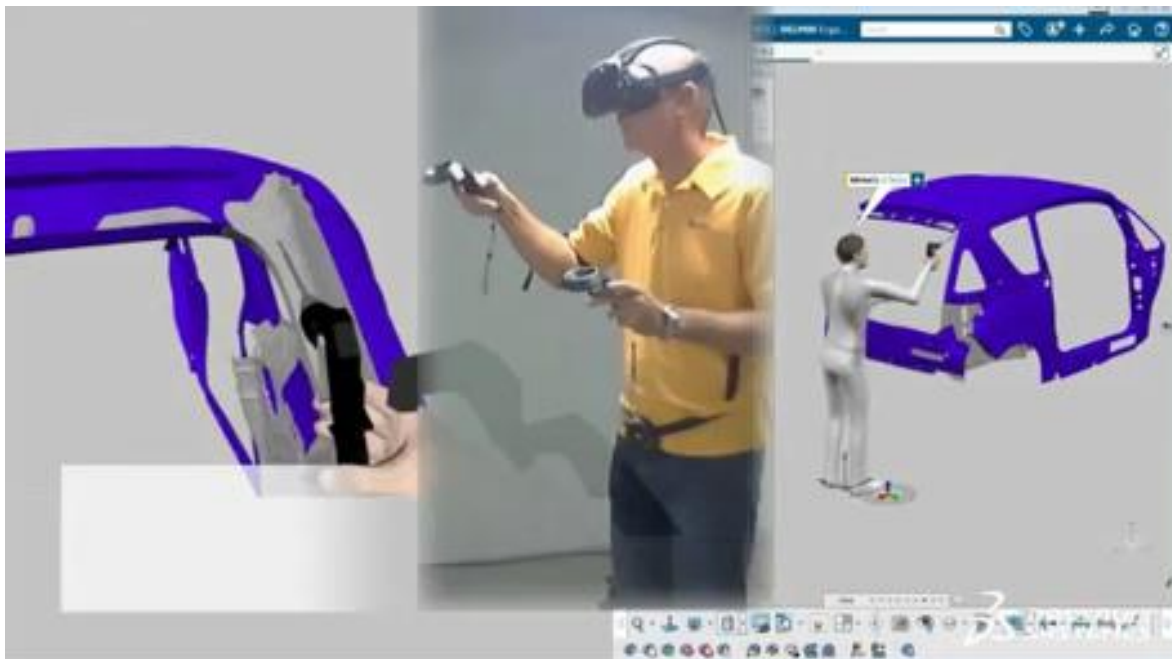## #Virtual Reality    #Ergonomic    #Dassault



### 3D REAL-TIME INTERACTION AND SIMULATION
✔ Realtime Animation of full human with physics:
  - ✔ Scale operator motion, integrate manikin's kinematics
  - ✔ Easy calibration, and attach/detach manikin
  - ✔ View collisions points on contact points
  - ✔ Animate up to 4 manikins
✔ Simulation set-up: Easy control start, stop, resume
✔ Realtime Animation of part with physics:
  - ✔ Create physics (selecting tool: working zone)
  - ✔ Animate in realtime
  - ✔ Support for haptic interface
  - ✔ Support weight
✔ Output: store a human task in realtime
✔ Supported devices:
  - ✔ Optical tracking system: ART, Vicon
  - ✔ Inertial system: Xsens
  - ✔ Force feedback: Haption's product Virtuose
  - ✔ Glove: Manus, Cyberglove
  - ✔ 3d mouse: 3Dconnexion
  - ✔ On request input stream
✔ Integration with HTC Vive: Since 2017X
  - ✔ HTC HMD : the view of the Manikin
  - ✔ HTC Controller: in a context of Manikin enable auto-grasp of the hand with vibration, natural catch and release

### TECHNICAL SPECIFICATION

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| PC Configuration | Dassault Systemes supported configuration, with minimum 32 G of RAM, dual quad-core, and dedicated Ethernet for the realtime input device |
| Supported Released | From 2019X to 2023X |

### PREREQUISITE

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| Haption | 1 license of IPSI Server |
| Dassault Systèmes | 2019X to 2021X: IFW, CSV, EWK<br>2022X to 2023X: PCS, EWK<br>For Vive support since 2019X: IHD |