

exiii has developed a “touchable-CAD” 3D design review tool

2 new wearable devices enable you to touch and feel virtual objects
exiii releases EXOS DK1 to explore more business use cases

Feb 28th, 2018 - Tokyo - exiii Inc. (exiii) has developed a 3D design review tool, which allows designers to touch and feel work-in-progress CAD data, through a haptic wearable device, “EXOS.” Since 2017, Nissan has started actively integrating VR into their car design development process. As part of this initiative, the Nissan Global Design Center is introducing this system to enable a more realistic product reviewing experience.

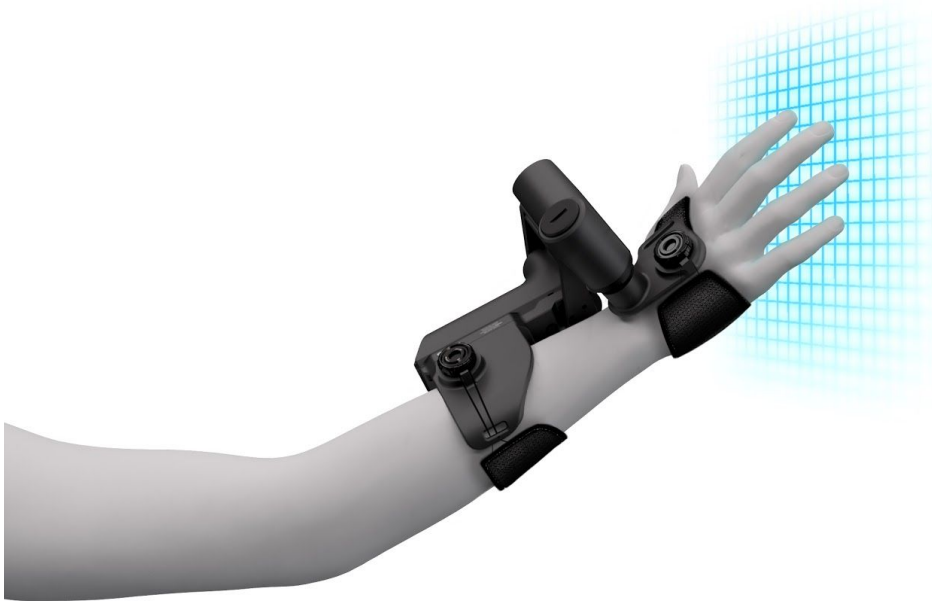
By integrating EXOS into VR, designers will be able to better intuitively review designs as a result of having both visual and touch interfaces. For example, designers will be able to make sure if the distance between seat and handle is appropriate, check whether all the buttons are easily accessible and controllable, and etc.

This new solution will provide designers with benefits such as making it possible to find out potential problems at the early stages of development, shorten the design process, and minimize the design-reality gap.



With this announcement, on Feb 28th, exiii has released 2 types of wearable haptic devices “EXOS Wrist DK1” and “EXOS Gripper DK1.” exiii welcomes partners and developers from across the world in order to accelerate the development of XR-related content, specifically for business use cases.

EXOS Wrist DK1



1. About

By applying counter force to 2 directions, palmer / dorsal flexion and radial / ulnar abduction, EXOS Wrist simulates haptic feedback when a user touches virtual objects. EXOS Wrist can be used with VIVE Controller or Oculus Touch, which will make it easy for developers to transform existing VR contents to touchable experience. In addition to assigning haptics to virtual objects, developers can also assign “event-base haptics,” such as shooting a gun and pushing a button, which will be good use cases for interactive contents including gaming. The development kit will come with a SDK for Unity and ensure developers have a tool to create haptics-enabled XR content.

2. Specs

- Number of motors: 2
- Motor torque: 5kg · cm
- Connection: Wired connection via USB or wireless connection via Wi-Fi
- Power: Battery

- Battery capacity: 11.1V / 980mAh
- Battery life: 1.5h

EXOS Gripper DK1



1. About

By applying counter force between the thumb and index finger, EXOS Gripper simulates haptics when grabbing objects in the virtual world. The light, simple, easy-to-wear design is optimal for casual use cases. The development kit will come with a SDK for Unity and ensure developers have a tool to create haptics-enabled XR content.

2. Specs

- Number of motors: 1
- Motor torque: 5kg · cm
- Connection: Wired connection via USB or wireless connection via Wi-Fi
- Power: Battery
- Battery capacity: 11.1V / 980mAh

- Battery life: 2.5h

Hiroshi Yamaura, CEO / Co-Founder of exiii Inc., comments, “EXOS Wrist and Gripper can be used in many business areas, such as manufacturing, simulation, entertainment and so on. We are very excited and are looking forward to working with developers who want to push the boundary of XR experience.”

EXOS Wrist DK1 and EXOS Gripper DK1 are now available via the website below. We can also provide the latest demo to selected developers. Please feel free to contact us.

- Order EXOS DK1: exiii.jp

exiii is hiring. If you are interested in what we are doing for the next generation XR, please feel free to contact us.

- Join exiii: exiii.jp/recruit/

All information contained in press release is accurate and valid as of the date of issue. All content is subject to change.

exiii Inc.

-ENDS-

Notes

- For more information about the product, please also refer to following demo videos.
 - EXOS concept movie
 - <http://exiii.jp/> (Will be released on 28th Feb 6AM PST / 9AM EST / 11PM JST)
 - EXOS CAD car design review demo movie
 - <https://youtu.be/VxN9yy2hl7Y>
 - EXOS Wrist DK1 demo movie
 - <https://youtu.be/CzuC8CSYw8k>
 - EXOS Gripper DK1 demo movie
 - <https://youtu.be/TAeViKt45eA>
- High resolution pictures and logos can be found from here.
 - https://drive.google.com/drive/folders/1VLxpbNCB1uH8KbwF6XzY_wfEE4uLzWvB?usp=sharing
- For interview or hands-on demo, please contact us from here.
 - press@exiii.jp
- **Embargoed until 28th Feb 6AM PST / 9AM EST / 11PM JST**
- For exiii and EXOS, please use official logo as following.

