



Media Release

5DT Unveils Virtual Reality Maintenance Trainer

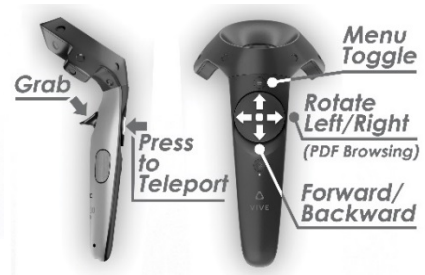
MINExpo 2021, Las Vegas, Nevada, USA

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5DT (Fifth Dimension Technologies), a training simulator and virtual reality pioneer, will today unveil their latest state-of-the-art virtual reality (VR) Maintenance Trainer.

This virtual reality (VR) system allows the user to navigate in and around a 3-D model of the system to be maintained. The user can perform pre-shift or post-shift walk-around inspections, for example checking fluid levels. The user can also interact with assemblies, sub-assemblies and parts, for example changing of filters.

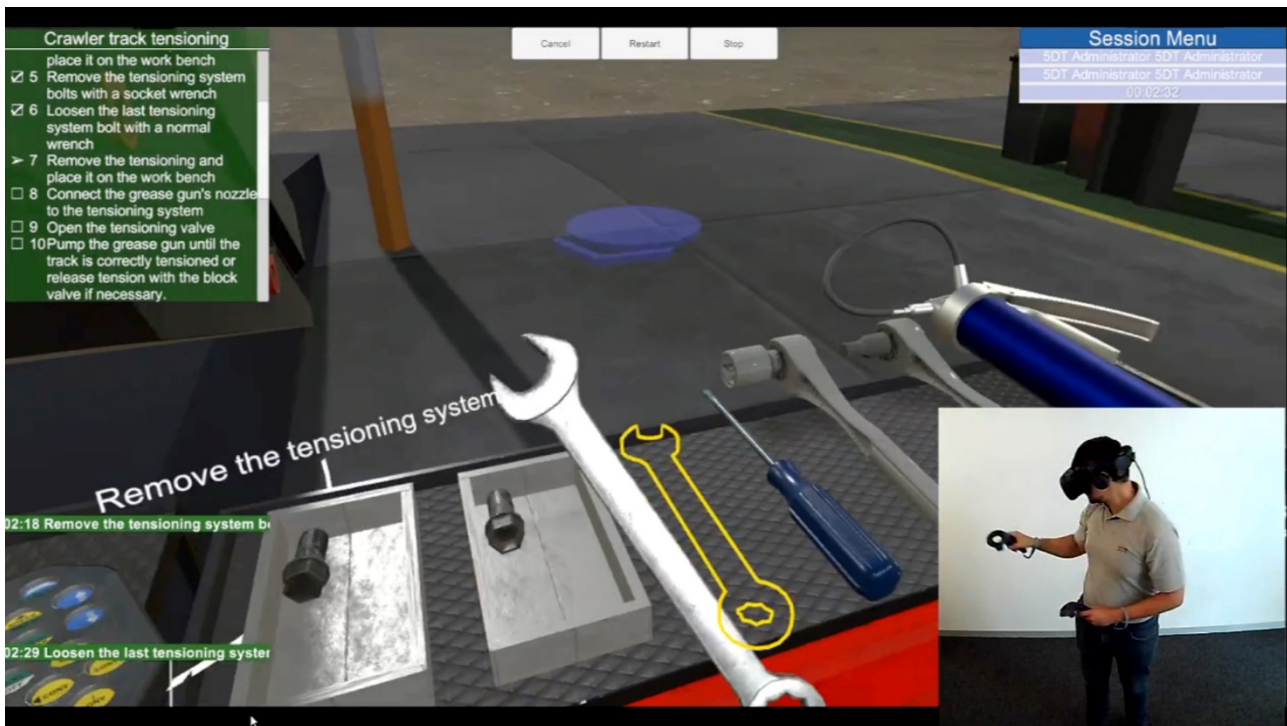
The system features built-in viewing of document files (for example Adobe Acrobat), such as user manuals, maintenance manuals, parts manuals, electronic circuit diagrams and hydraulic circuit diagrams. It also features built-in viewing of video files, such as assembly, maintenance and repair videos. Menus may also be navigated with voice commands. Basic troubleshooting principles are taught.



The system utilizes commercial off the shelf (COTS) computer hardware like a virtual reality (VR) head mounted display (HMD) [left] and space controllers (Handsets) [right]. All the hardware elements are combined in an ergonomic virtual reality (VR) station [center]. The VR station also features a big screen so that other class members may observe the actions of the trainee wearing the HMD and also learn in the process.

The system further features virtual tools and instruments, interaction with parts, tasks lists and work order generation. It is easy to use and the navigation is extremely intuitive. The user may teleport to different spots within the virtual environment. The user may also teleport to the inside of the virtual vehicle or machine. Navigation by means of voice commands are currently being trialed.

Application areas for the system are maintenance training, walk-around-inspection training, pre-start test training and vehicle/machine familiarization. The system is ideal to train both operators and maintainers on how to perform routine maintenance tasks.



Virtual Tool Table of Maintenance Trainer

The trainee navigates the virtual tools with COTS VR space controllers. A task box [left-top] guides the trainee through the task to be performed. It is possible to drop the virtual tools and the virtual bolts. The trainee will then have to physically reach out to the floor to pick these up.

5DT has already received orders for two (2) of its Maintenance Trainers.

“Our first customers have responded very positively to the system. The system is very intuitive and trainees from different levels of computer literacy were able to be up and running within minutes. Most importantly, trainees who have exercised with the maintenance trainer, were able to perform the real maintenance task in reality. We have encountered operators who learned how to perform a specific task by simply observing how other class members do it in virtual reality.” said Paul Olckers, CEO of 5DT.

According to Martin Schehle, COO of 5DT, “We are extremely excited to add the VR Maintenance Trainer to our ever-expanding portfolio of training products. This puts 5DT in the position to offer a full scope of training products to both operators and maintainers. Combining the 5DT maintenance trainer with our new VR glove, the XR-Glove, will give learners a fully immersive “hands-on” experience to build their competency in a short time.”

A fully operational system is available for interaction at 5DT’s booth number 4623 in the Central Hall. 5DT may also perform online video demonstrations from its offices.

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About 5DT

5DT (Fifth Dimension Technologies) is a global market leader in training simulators, virtual reality and artificial intelligence systems for the mining, construction, trucking, aerospace and defense industries. Established in 1993, 5DT has developed training simulators for more than 145 different vehicle, machine and aircraft models from more than 40 different original equipment manufacturers (OEMs). 5DT has deployed more than 220 simulator systems worldwide. 5DT has 4 international offices in the United States, South Africa, Australia and India.

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Associated Material

Video:

<https://www.youtube.com/watch?v=BerVchZtMu8>

Images:

Please contact us if you need high resolution images.