

vc4D Modul: IPP

IPP

Force-feedback technology adds the sense of touch to the simulation. The vc4D IPP-Module connects hard- and software for force-feedback from Haption™ to the 4DC viewer technology.

Haption™ is a spin-off of the French Nuclear Research Agency (CEA) and designs, manufactures and sells haptic devices for the needs of professionals.

Unlike the vast majority of haptic solutions, the devices of Haption™ offer true 6-degrees of freedom in operation.

The physics simulation needed to calculate the feedback forces of the device and the behavior of the simulated objects can be run on a separate machine for a better load balancing.

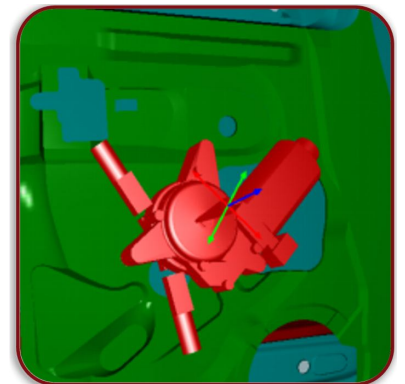
The IPP-Module for vc4D connects the Haption™ technology by a mouse click.

During the simulation the haptic device is represented as a 3D cursor, which follows the movement of the haptic device. An object is "grabbed" by sticking the cursor into the object and pressing a button.

From this moment on the object can be moved with the device incorporating collisions, friction and so forth.

The advantages of the IPP-Module at a glance:

- Full 6-degrees of freedom
- The calculation of the physics can be outsourced to a dedicated machine.
- Multi Core Physics Server for calculation of demanding models
- Cave™ ready
- Easy configuration and usage
- Compatible with all Haption™ and 3Dconnexion™ (USB) devices



System requirements:

- Windows™ (2000 / XP / Vista) workstation with at least 1GB main memory
- 3D graphics card with at least 256MB video memory
- 4DC base installation
- Haption™ Haptic Interaction Device or 3Dconnexion™ (USB) device

Possible configurations:

- Desktop (Mouse, keyboard, SpaceMouse™)
- Powerwall (FlyStick, HeadTracking, aso)
- Multi-Channel installations
- Head Mounted Display
- And many more ...



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