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### Presentation of Operantis and lexip

**Operantis** > OPERANTIS is a company specialized in the design and the development of multi-media products for the training in the industrial field: e-learning, virtual reality or serious gaming, ... Born in 2003, it is now more than 30 collaborators at the service of our customers such as Airbus Industry, ATR, Eurocopter, Air France, Areva, the French and foreign Armies,.... And more than 150 projects realized to date.

**Lexip** > LEXIP is an innovating company which designs, develops and markets a 3D mouse. The LEXIP team gathers in-house competences of mecatronic (mechanics, electronics and data processing) which allows to stick to the users expectations during the developments of new products. It is on this basis that LEXIP offers ergonomic 3D mouses allowing to manipulate with efficiency the 3D objects, or to navigate intuitively in the 3D scenes. Keeping the basic functionalities of a mouse (to point, to click, to zoom), the LEXIP 3D Mouse can replace a standard mouse.



Click on the image to watch the video

### In which project the Lexip 3D mouse has been used and for which purpose?

**Operantis** > We used the Lexip 3D mouse in two environments: the creation and the use of our Virtual Walk-Around. This training tool is used to train, in a virtual environment, the learning pilots to the before-flight visit. Based on an interactive scene developed with NOVA, the trainee moves with complete freedom around his plane and must check the state of a hundred components. Some having anomalies, the results are posted at the end of his training session.

Our various users are not all used to 3D environments as video games, by combining the mouse for the visual side and the keyboard for the displacements. We thus have retained the Lexip mouse which includes, in an easy way, these various functionalities. It becomes more natural for the users, and allows a faster acceptance of the application.

**Lexip** > In this context, the project carried out with OPERANTIS answers the expectations of the technicians trained on PC: to offer the way of moving in 3D around an A320 with the replacement of the sometimes tiresome traditional use of the " keyboard + mouse" combination. Thus, looking up or down with the 3D Mouse is done by raising or lowering the head in the 3D scene. The fact that we combine 2D and 3D in only one tool allows, with one hand, to position oneself as well as possible in the 3D scene and then to interact with the active elements which compose the scene .



### Which tools have you chosen and why?

**Operantis** > Our various applications of virtual reality are developed with the NOVA SDK, perfectly integrated into 3ds Max.



We have chosen the Lexip 3D Mouse because its use is easy, and, being integrated into NOVA, we did not have any additional developments to make.

Cliquez sur l'image pour voir la vidéo de l'application

This not only enables us to have extremely realistic scenes but to also have a quickness of production, important element in today's economic environment.



Click on the image to watch a video of the application

Do you have future projects which will need the same tools?

Operantis > 3 other projects having an identical teaching approach are currently under development at OPERANTIS.

For these 3 projects, we will also use the Nova SDK and we intend to offer to our customers a global solution with the Lexip 3D Mouse.

What do you think of this collaboration?

Operantis > It is very important for OPERANTIS to have partner companies at the top of the innovation and having reliable technical solutions, this is why we hope to continue our collaboration with Vertice and Lexip.

Lexip > All the LEXIP team was enthusiastic by the quality of the rendering of the A320. Operantis offers a truly effective visual result where the immersion is instantaneous for the user. It is impressive to imagine the richness of the knowledge contained in such a simulation...

This example clearly highlights the main quality of Nova: to be able to be completely forgotten by the end user! The power of Nova offered with an hyper intuitive use for the graphic designers naturally pushed LEXIP to pay a lot of interest to Nova. Thus LEXIP could offer a plugin allowing to interact in the virtual scenes from 3ds Max to Nova without any rupture in the workflow.



Images courtesy of Operantis & Lexip.

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