VR_
Eingabe Gerät

SATTLER
Loïc
EMMA2_

_The DIRECTRON™

_Intro

The tool I have decided to build is designed to be used in virtual rooms.This tool is based on the exemple I received in the VR course and the researches I made.

_The purpose

Those tools are made to navigate into a virtual room.
For me, the best way to use such a tools is to have a maximum of liberty within the space.
That means, it should be used in a simple way to get as much directions «usable».
That's why I created the DIRECTRON™

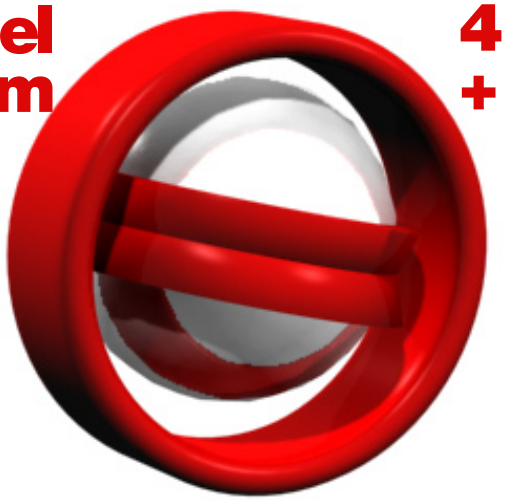
_The DIRECTRON™

The DIRECTRON™ is an improved tool based on the Libelle System developped by the Fraunhofer Institute.
It uses the same system to track the person in the room, and to give possible movement to an object on the screen.

The DIRECTRON™ includes :
- A possible navigation North / South / East / West / Up / Down
- A possible navigation Up / Down / Right / Left
- A second navigation possibility UP / Down / Right / Left
- Two possibilities of clicks

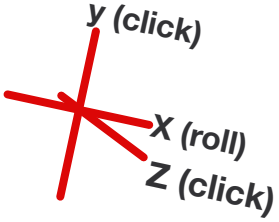
The system is described in the following pages.

Kugel System

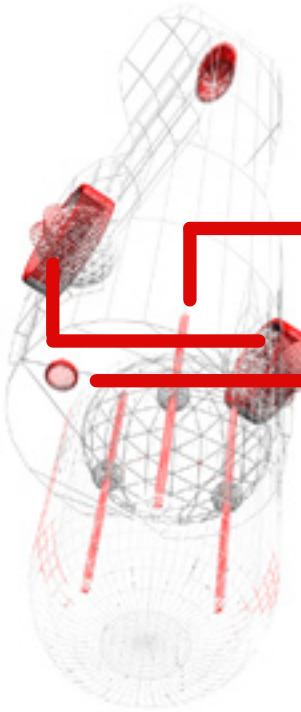


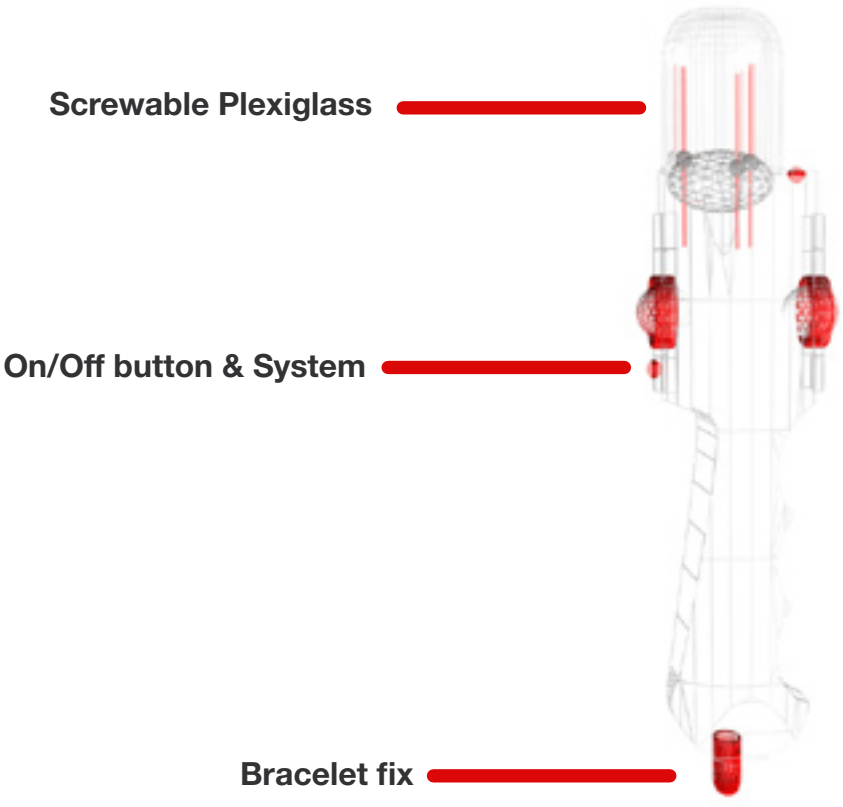
4 degrees of freedom + 1 Click

This tool is based on the systems that can be found on modern mouses (logitech / Microsoft) It enables the user to go in four direction and to click on it with on an only system.

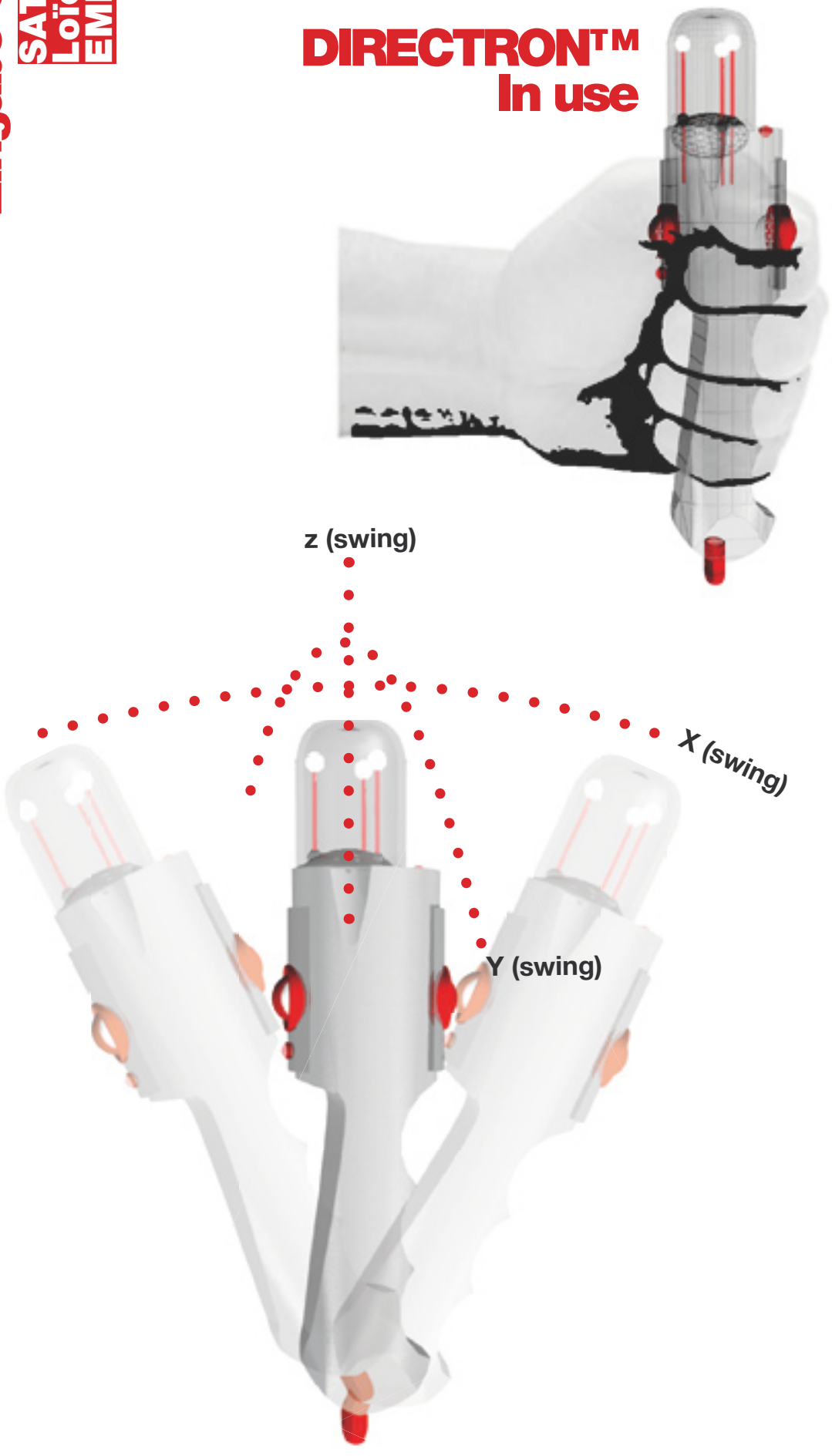


The DIRECTRON™ Technical view





DIRECTRON™
In use



_Description

The DIRECTRON™ enables you:
1 to navigate in a 3D room by being tracked with the tracking system
2 to navigate in a submenu with the Kugel1 system
3 to choose options with the Kugel2 system

The Kugel Systems are fully configurable with the software that is programmed for the tool and in the DIRECTRON™ bundle.

_Choices

The DIRECTRON™ is made to be used with just one hand. This choice has been made for one simple reason : using both hands would be to heavy for manipulations (in my opinion)

The DIRECTRON™ hasn't got a letter entry (keyboard) because it is only used for navigation. It is aimed to be coupled with a keyboard that would be near the opeator (if needed)

The DIRECTRON™ is built to be easy to use in the hand. It has been studied to be as ergonomic as possible.

The DIRECTRON™ is built to resist chocs (plexiglass dome for the tracking points, bracelet to hang on the arm, heavy plastics). Long lifespan equals less costs.

_Improvements

The system can be improved in some ways:

- Improve the placing of the tracking points, because it can result to some problems when the tracking points are too close.

- Improve the weight of the system, because it shouldn't be too heavy. (use carbon instead of plastics,...)

- Improve the price of the whole bundle (software + system) - estimated $500

_Conclusion

The DIRECTRON™ is fully adapted to navigate in 3D rooms / caves or virtual rooms .
It is the direct evolution of the well know Libelle and could replace them within a little time.

In case you are interested in the DIRECTRON™ bundle, please contact the Lysergid Studios CEO:

Loïc SATTLER - contact@lysergid.com

We would be happy to be your partner.

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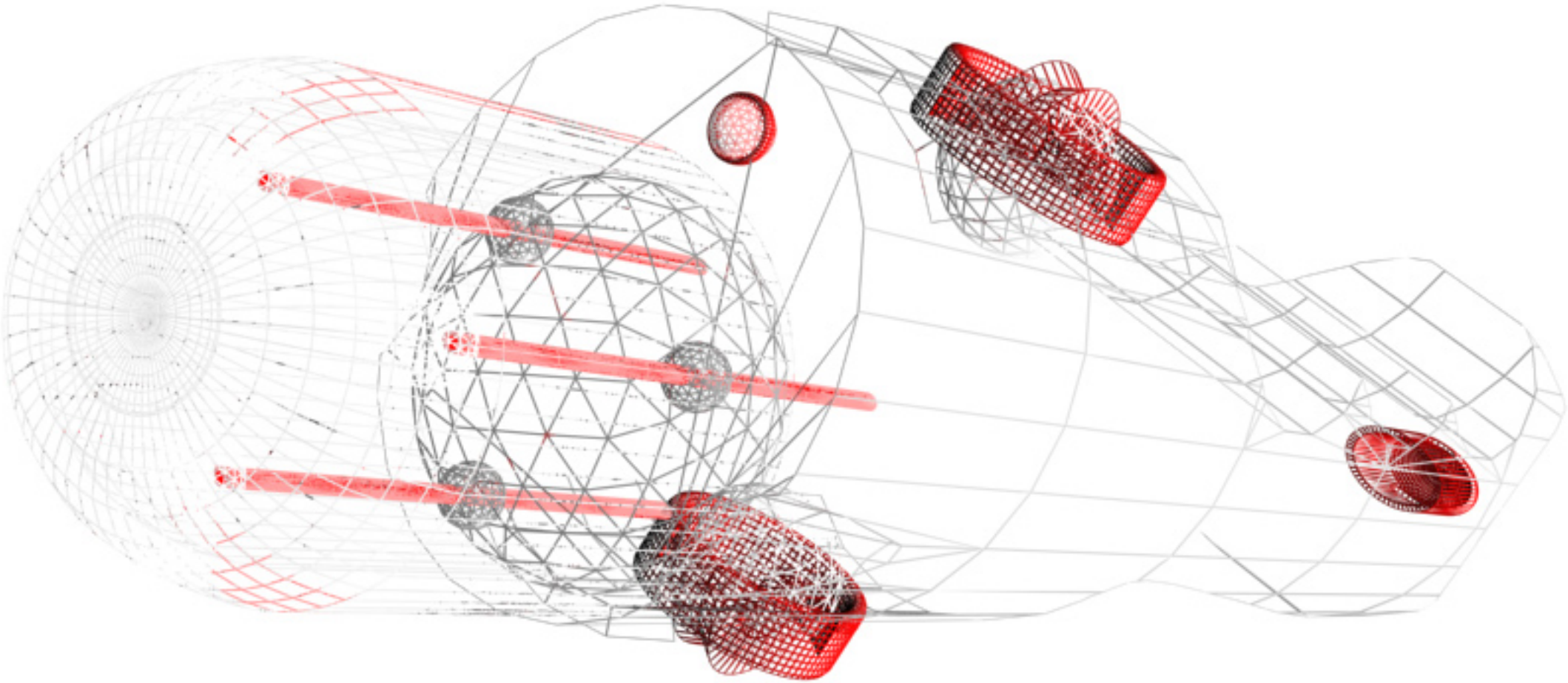

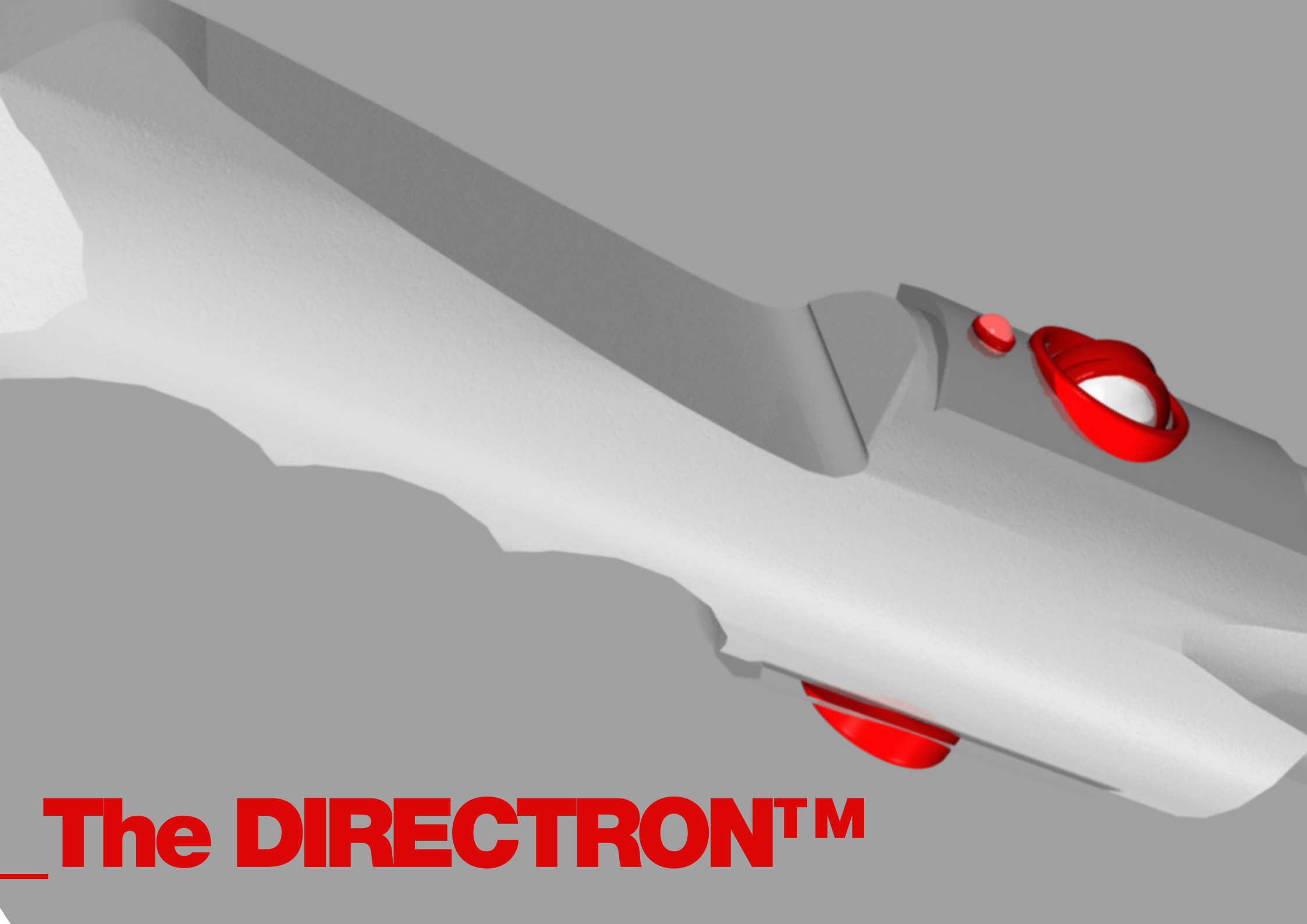

The DIRECTRON™