

By Axel Blonski , physicist, Germany, Klingelhuettenweg 14, 69118 Heidelberg,
www.directspacecontrol.com, email: blonskiburo@gmx.de, Tel: +49 6221 809494,
mob. +49 162 9198750. Date: January, 15, 2007.

3D- to 9D newly developed input and haptic interface "DSC"

DSC- The Direct Space Control (preliminary name from maker) is a new input and haptic device from physicist Axel Blonski, from Heidelberg, Germany. A handle with click buttons operating in a cube space is suspended by 3 ball bearing guides, who are each in pairs orthogonal and form a coordinate split device. Friction shall be as small as possible, the gravity force of handle shall be counteracted by time independant force, so forming a gently movable "3D- mouse" as a basic property. Of course, coordinate infos are gained by measurement of carriage position along each guide. Possible extensions are force feedback components on each axis. At the handle should be fixed a scroll wheel and 3D-evaluated special trackball for 6D- linear in all capability, and, even incremental 3 more dims, pitch, roll and yaw of handle for 9D altogether. The intuition is ultimate by using the hand skills with linear map of 3D cursor, the problem of the lifted arm getting tired can be solved by shortly moving coordinates, then relax arm on table. The excellent property of easy grasp and release, where the released grasp and the vitually attached cursor remain exactly where they are, is combined with over all mapping linearity and 3D intuition for the first time.

Demand is expected with rise of autostereoscopic displays as enabling technology for the interactive computer use in special programs, visualization work of 3D content, and even general navigation. Mentioned is also the whole world of haptic applications and even games.

As a single developer without corporate support so far, the author searches urgently team and money (investment) together with leadership for final development into product, the author slipping into background. Strong patent work was done. (publ.:WO2006/037305A1) Further cost arise soon. Many interested persons, groups, enterprises asked for test unit for augmented user value and possible purchase. Technical ideas for premium product are developed, ideas for cheap mass product are existent. Driver Win2000/XP, with switchable and scalable axes menu exists.

See added video and: www.directspacecontrol.com

