

CRISTAL: a collaborative home media and device controller based on a multi-touch display

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We present an integrated remote control system, called CRISTAL (Control of Remotely Interfaced Systems using Touch-based Actions in Living spaces). CRISTAL enables people to control a wide variety of digital devices from a centralized, interactive tabletop system that provides an intuitive, gesture-based interface. It enables multiple users to control home media devices through a virtually augmented video image of the surrounding environment.



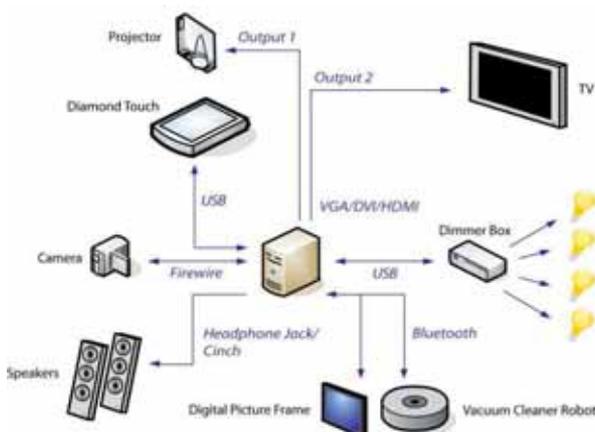
There is a DVD list in the CRISTAL. To play a DVD on the TV you just selecting a DVD on the tabletop and Drag & Drop it to the TV icon, then the DVD will play on actual TV.



You can control the light by touching it on the tabletop display and sliding your finger up and down, then you can control the light. You can control volume of speakers as same as the light control.



To clean up, just point to a place on the floor, which is showed on the tabletop display. A robot vacuum cleaner will go there and clean up where you selected.



CRISTAL is an all-in-one packaged system that supports extensions. All appliances including the robot vacuum cleaner are connected to the main computer. A tabletop display will show the environmental image from a ceiling-mounted camera. The users interact with the system on the view of the room. An intuitive gesture control is possible on the CRISTAL system.

Patent status & Patent owner contact

▪ **Patent license is available.**

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