



## TECHNOLOGY

# Device Using a Camera and Light Polarization for the Remote Displacement of a Cursor on a Display

## OVERVIEW

The invention is related to a device used for remotely controlling the motion of a cursor on the screen of a TV or computer. Applications include the creation of a TV remote in which the motion of the remote by a TV viewer results in the motion of the cursor on the screen. The invention is more specifically related to a device that includes a camera and image processing means to detect the position and orientation (the pose) of a TV screen with respect to the remote.

According to the invention, with a remote, a user can, for example, move the cursor on top of a thumbnail representing a chapter of a DVD and then select it by clicking a button of the remote. This method is faster than using arrow keys to select DVD chapters. In fact, the advantages of this type of remote compared to a traditional remote are similar to the proven advantages of using a mouse compared to using a keyboard for computers. The invention includes a polarizing filter if the TV uses LCD technology.

This technology will find particular use with LCD screens.

A US patent application is pending:

see: 20060023111 Device using a camera and light polarization for the remote displacement of a cursor on a display

For more information, please call the University of Maryland, Office of Technology Commercialization, 301 405-3947 or send an e-mail to [otc@umd.edu](mailto:otc@umd.edu).

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## Additional Information

## INSTITUTION

University of Maryland, College Park

**PATENT STATUS**

Patent(s) pending

**LICENSE STATUS**

Contact OTC for licensing information

**CATEGORIES**

- Imaging devices

**EXTERNAL RESOURCES**

- [US Patent 7,542,072](#)

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