Laserpointer-Interaction between Art and Science
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Laserpointer-Interaction
- Novel input device for large, high-resolution displays
- Low energy infrared laser with multi-modal feedback
- Direct control from any point and at any distance
- Fast, precise and flexible interaction

Custom-built Laserpointer
- Pen-like shape & solid metal frame
- On-device visual feedback in addition to screen feedback
- Tactile feedback by an integrated vibration module
- Three physical buttons for mouse-like interaction

Jitter Compensation
- Multi-modal Kalman Filter
- Intelligent selection and combination of static and dynamic interaction model
- Supports both smooth movement and precise hovering

Tracking Technique
- High-resolution camera array
- Sub-pixel point detection
- High tracking speed and minimal delay
- Calibration suitable for any display shape

Globorama
- Artistic & scientific installation exhibited from 09/29 to 10/28/2007 at the ZKM | Center for Art and Media Karlsruhe
- 360° Panorama Screen, 8m diameter, 8192 x 928 pixels
- High-resolution satellite images of the entire earth, 360° photographs and Live-Cams from all over the world
- Navigation and Interaction by Laserpointer

- Complex-Logarithmic Perspective: Satellite images are locally free of distortion, shapes stay recognizable over many orders of magnitude.

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