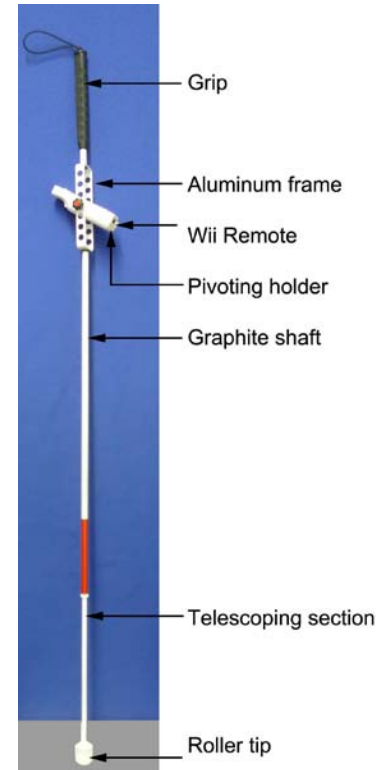




WiiCane

Touch
Graphics, Inc.



Left: A student trying out WiiCane at Overbrook School for the Blind. Right: the cane with Wii Remote

WiiCane* is a new training tool that helps blind and deaf-blind pedestrians improve their cane technique in a safe environment. Trainees walk along a 30' course; as they move forward, they receive auditory or vibratory feedback on veering, cane arc width, hand-centeredness, and other aspects of cane mechanics. WiiCane is based on Wii video gaming hardware: a Wii Remote is mounted to a telescoping mobility cane, and the camera in this device tracks the position of blinking LED's installed at 6" intervals on a ceiling mounted light strip. A computer receives data via Bluetooth radio and a program calculates the correction needed, and sends a signal back to the Wii Remote (for vibration), and to wireless headphones (for spoken instructions or sound effects). A curriculum provides set up information and lesson plans.

**Wii is a registered trademark of Nintendo Company Ltd.*

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