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(57) Abstract :
The invention discloses a smart device for hand gesture-controlled computer interfaces comprising motion sensors (101), a microcontroller unit (102), a gesture recognition module (103), a wireless communication unit (104), and a power supply unit (105). The system captures three-dimensional hand movements, processes them into control commands, and transmits them wirelessly to a computer interface (106). The device eliminates reliance on external cameras or gloves, ensuring portability, affordability, and real-time performance. It enables intuitive, touchless interaction for diverse applications, including accessibility, gaming, healthcare, and professional computing environments.

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