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(57) Abstract :
 A smart calculus visual aid device (100) is disclosed, comprising a display unit (101), symbolic computation module (102), rendering engine (103), voice interface (104), mode switch (105), feedback unit (106), and connectivity module (107). It enables real-time graphical visualization of derivatives and integrals, tactile feedback for mathematical features, and accessibility through voice narration. The device supports function manipulation, instant slope display, integral area mapping, and wireless data export for collaborative learning environments.

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