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(57) Abstract :

A smart pen device (100) with real-time digitization and wireless data transfer is disclosed. The device includes a conical tip (106), camera (112), audio module (114), button (108), and wireless module (110). It captures handwriting, converts it into digital text, synchronizes with audio, and transmits to a digital device (102). Integrated gesture control and secure transmission enhance usability. The invention enables seamless analog-to-digital conversion, improving productivity in educational, professional, and remote work environments.

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