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(57) Abstract :
A multifunctional ruler (100) is disclosed to enhance measurement, scanning, and document management capabilities. The ruler (100) includes a pair of heads (102) that may be adjusted along the ruler, allowing a user to draw lines of predefined lengths based on the distance between the heads. A display unit (104) is integrated into the ruler, providing real-time measurement feedback. Additionally, a scanner (106) attached to one side of the ruler, enabling the user to capture high-quality images of documents by moving the scanner across the surface. The ruler incorporates a Bluetooth module (108), facilitating wireless communication with one or more computing devices for seamless transfer of scanned documents. The operation of the ruler is controlled through intuitive buttons that communicate with both the display unit and the scanner. Furthermore, a compass is integrated within the ruler, allowing users to determine the direction relative to the Earth's magnetic field.

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