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(57) Abstract :

The present invention discloses a foldable display device (100) featuring a flexible screen (102) segmented into multiple zones (104a, 104b, 104c) for simultaneous multi-application execution. The device includes a multi-axis hinge (108), gesture control interface (110), and stylus input (114) with pressure sensors (112). Integrated thermal regulation elements (116) ensure optimal performance during extended use. The invention enables seamless transition between folded and expanded modes, enhancing portability, productivity, and versatility for mobile computing across professional, educational, and entertainment applications.

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