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(57) Abstract :

An improved multi-display synchronization device (10) interfaces between two monitors (12, 14) and a computing system (18) to enable seamless cross-monitor workflow. It comprises embedded firmware to manage cursor alignment, input harmonization, real-time resolution scaling, and dynamic display detection. Input devices such as keyboard and mouse (16) are synchronized via gesture and hotkey logic. The device supports plug-and-play configuration and automatic layout restoration, enhancing user productivity with low latency and visual continuity across multiple display environments.

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