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(57) Abstract :
The present invention discloses a portable deep learning model training device (1) equipped with an inbuilt hybrid cooling system (2) comprising heat pipes (6), micro liquid-cooling channels (7), and programmable fan arrays (8). The device integrates an embedded GPU unit (3), AI-based thermal prediction sensors (9), and cloud synchronization interface (12). Designed for mobile, high-performance AI model training, the device ensures efficient temperature regulation, energy optimization, and uninterrupted processing in field or offline environments.

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