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(57) Abstract :
 An adaptive screen brightness adjustment device includes a light sensor (101), controller (102), memory (103), and display (104). It dynamically regulates screen illumination based on ambient light, user preferences, and learned environmental data. The device improves visual comfort, reduces power consumption, and enables predictive brightness management using adaptive algorithms stored in memory (103). It ensures seamless transitions and user-driven overrides, delivering intelligent brightness control suitable for mobile, automotive, and industrial applications.

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