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(57) Abstract :

The invention discloses a virtual assistant device for personalized home automation management, comprising microphone module (101), speaker module (102), processing unit (103), AI engine (104), IoT connectivity module (105), energy optimization unit (106), and user interface unit (107). The device integrates artificial intelligence, contextual learning, and interoperability to manage multi-brand smart appliances. It enhances energy efficiency, ensures privacy through localized processing, and provides security with biometric authentication. The invention delivers seamless, personalized, and adaptive control of smart home environments.

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