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(57) Abstract :
The present disclosure relates to an Intrusion Alarm Video-Processing Device using Motion Detection and Facial Recognition Techniques for Enhanced Security (10) is an advanced security system designed to enhance safety by integrating cutting-edge motion detection (1) and facial recognition (2) technologies. This video-processing device analyzes real-time video footage, accurately detecting unauthorized motion patterns (3) and identifying unfamiliar faces (4) within the captured frames. The system triggers an intrusion alarm (5) in response to potential security breaches, activating timely alerts and proactive security measures. With seamless integration capabilities (6), a user-friendly interface (7), and privacy-focused data management (8), the device offers a comprehensive solution for centralized monitoring and management. By incorporating deep neural networks (9) for facial recognition and continuous learning mechanisms, the system ensures precise identification of authorized individuals

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