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(57) Abstract :

The present disclosure introduces a block chain-enabled CCTV camera system to safeguard footages 100 for tamper-proof video storage. The system incorporates microcontroller/processor 102 to manage operations, memory unit 104 to temporarily store and segment footage, USB port 106 for setup and configuration, and operating system 108 for block chain connectivity and smart contract execution. It utilizes Wi-Fi module 110 to transmit encrypted video footage to block chain servers 114, which store data in a decentralized, tamper-proof network. The system leverages smart contracts 112 for authenticating video clips, hash generator 118 for creating unique hash values to ensure data integrity, and authentication system 120 for verifying authorized devices. The decentralized storage network 122 ensures redundant and secure footage storage across multiple servers. Reference Fig 1

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