

ABSTRACT

According to an embodiment, a portable electronic device that executes a command from a host device includes a sensor and a processor. The sensor acquires biometric information. The processor causes the sensor to acquire first biometric information for generating a template used for authentication, and after the first biometric information is acquired, causes the sensor to acquire second biometric information used for generating the template. Where the similarity between the first biometric information and the second biometric information exceeds a first threshold value, the processor outputs a signal indicating that the second biometric information is inappropriate for use as biometric information for generating the template.