SCREEN SECURITY BY USING ULTRASONIC ACOUSTIC METHOD

HP INC
Screen security by using ultrasonic acoustic method

The further the reflection time take longer

People stand in the back of dominate user

Dominate user

Microphone

Internal speaker
Detail description

Internal microphone captured and remembered the delay time or frequency reflected from dominate user.

Play an ultrasonic sound from internal speaker during calibration for dominate user sit in front of devices.

When there are some people stand in the back of dominate user, the reflection time or frequency captured from internal microphone will be different. Audio codec can identify and turn off screen thru GPIO.
Disclosed by Yi-Ying Lai, Stanley Wang and PC Chuang, HP Inc.