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Android 4.0 Ice Cream Sandwich<sup>1)</sup>

가     ,     LCD

가<sup>2)</sup>     2     가

IR<sup>3)</sup>

|                                                                                     |           | Dual Camera System                                                                  |                                                                                      |
|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                     |           | Visble Image                                                                        | Infra-red Image                                                                      |
|  | Fake face |  |  |
|  | Live face |  |  |

Figure 1. Differences between IR and visible images in eye region

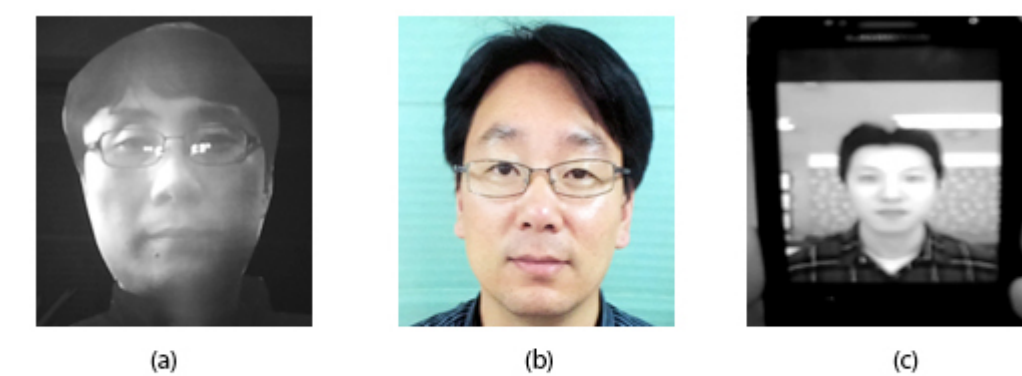


Figure 2. Examples of fake faces.

(a), (b) Printed fake face on paper  
(c) Fake face displayed on LCD

1)     , PIN,     ,     .

2)     .

3) , , 3

Infra-red

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