

FINGER VEIN IMAGE ACQUISITION DEVICE

ABSTRACT

5 The present disclosure relates to several types of finger vein sensor. In certain
embodiments, the finger vein sensor includes: an image sensor, and an infrared light
source. Image sensor captures infrared image of finger vein pattern of a finger of a
target human. The image sensor faces down and is positioned at top of finger vein
sensor. The infrared light source may include a predetermined number of infrared light-
10 emitting diodes (LED), and they are arranged in one or more rows and one or more
columns and positioned at bottom of finger vein sensor. The finger is positioned
between infrared light source and image sensor. The infrared light from the infrared
light source irradiates the finger vertically from the bottom to generate the infrared image
of finger vein pattern of the finger on the image sensor, and the image sensor captures the
15 infrared image of finger vein pattern of the finger.

[Fig. 1B]