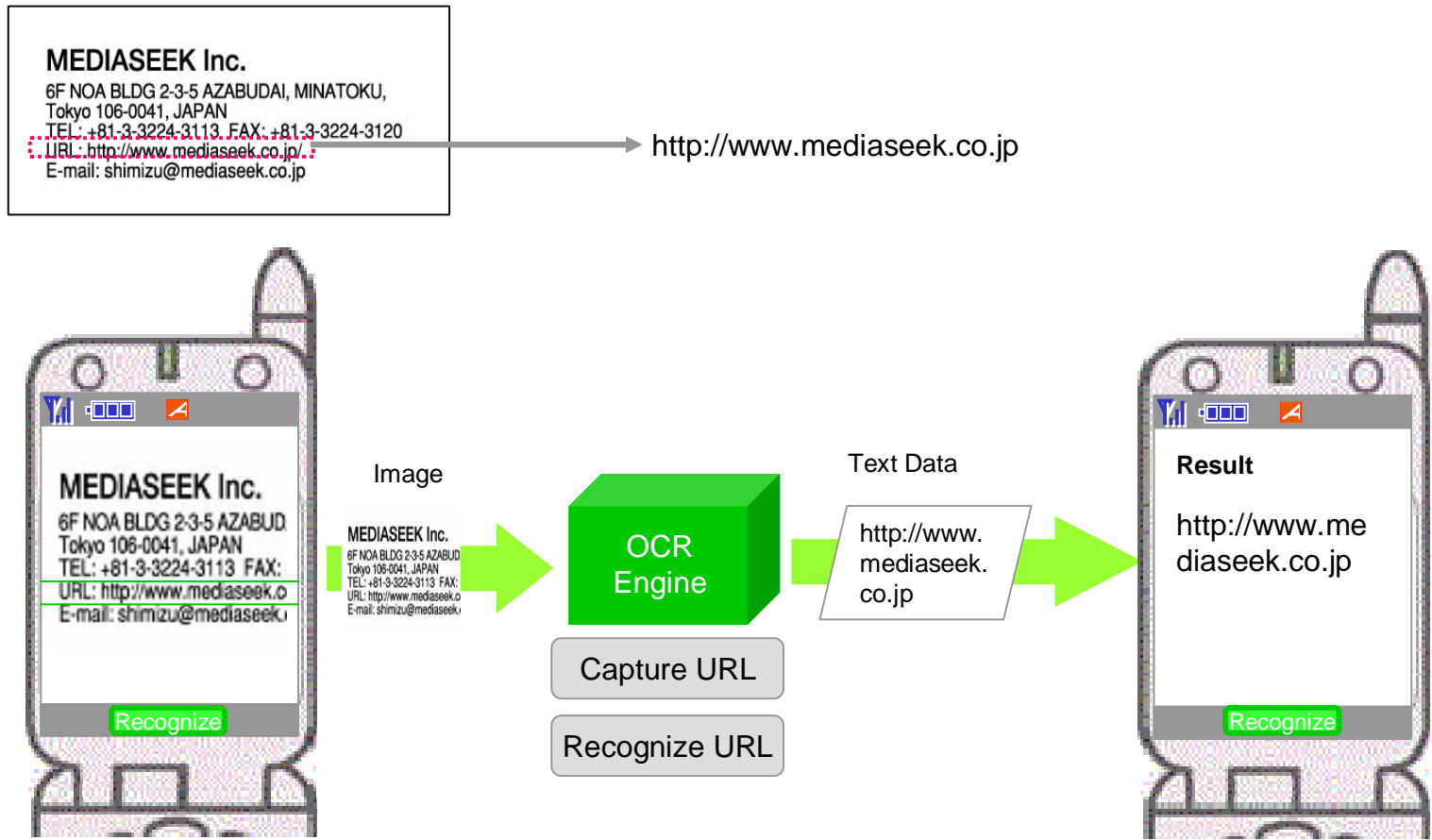


## OCR Engine

# Overview



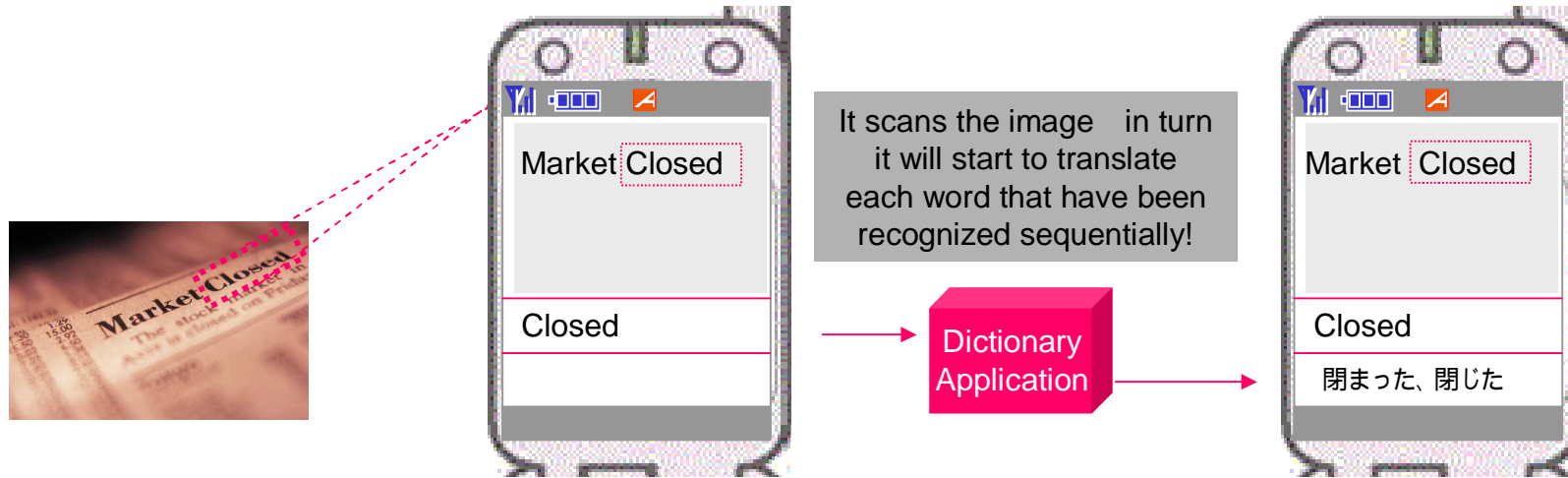
Outstanding image processing technology and optimum software design recognize English letters and numerals from photo images captured by a camera phone.



# Application Image (Dictionary Application)



This application translates words captured by a mobile camera automatically! It's high-speed and precise because it links the captured words with the mobile phone dictionary function at high-speed!



Examples of the exiting OCR technology

「Closed」 → 「C1osed」  
(misreads low-case letter "l" with number "1")

Also 「z」 → 「2」 etc.,

application linked OCR

The information of image analysis will be cross-checked with the dictionary on a steady basis

**It eliminates decoding errors completely!**

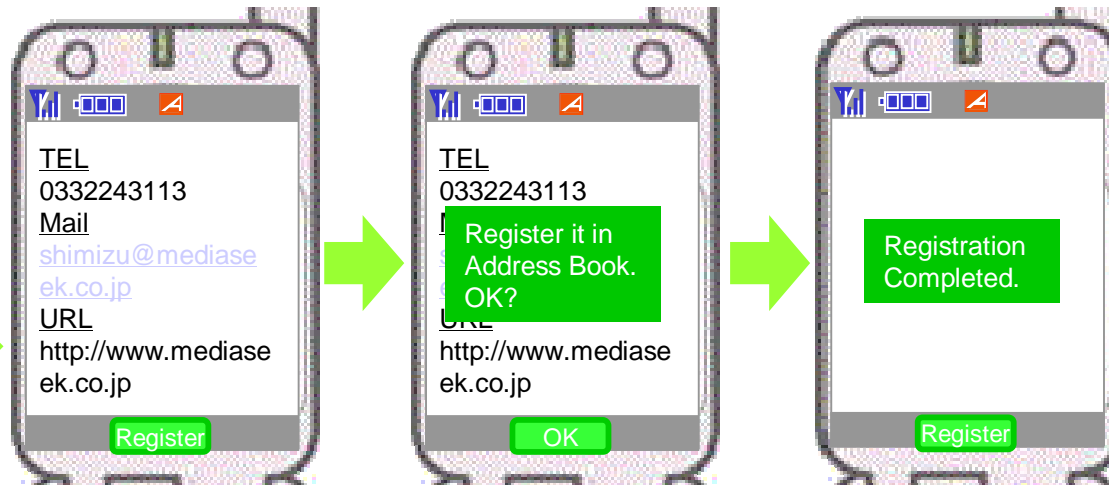
# Application Image (Business Card Reader)



OCR Engine identifies keywords to recognize necessary data from captured image.  
Recognized data will be registered to respective categories of mobile phone address book.



Identify keywords e.g. TEL, http:  
@ and determine the category  
of recognized data.



# Specification



<b>Platform</b>	Intel. ARM9, Qualcomm-MSM
<b>OS</b>	Windows Pocket PC, BREW, Symbian OS
<b>ROM Size(Program)</b>	150KB
<b>RAM Size (heap)</b>	250KB
<b>Available Letters to Capture</b>	English letters, Numerals and Marks ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz . , ? / @ ! - _ ( ) + ' % : ¥ & # = ¥ ; “ ~ ° (Note: Not available for all Japanese letters of Hiragana, Katakana, Kanji)
<b>Capturing Rate</b>	Over 90% (Note: Under the certain condition to capture)
<b>Background</b>	Plain colored background
<b>Processing Speed to Recognize</b>	80 letters in photographic image of 320 x 240(QVGA) : 2.0 sec. (ARM9 100Mhz, Using cache, By Engine ROM)
<b>Adjusting Image</b>	Rotation Angle ± 5 degree
<b>Picture Element of 1 letter</b>	Over 15 dot angle
<b>File Format</b>	RGB24, RGB565, RGB8, YUV420, YUV422, others upon request