

base station (e.g., access point, Node B, etc.), an external terminal (e.g., other user devices) and a server (or other network entities). Such radio signals may include a voice call signal, a video call signal or various types of data according to text and/or multimedia message transmission and/or reception.

[0047] The wireless Internet module **113** supports wireless Internet access for the mobile terminal. This module may be internally or externally coupled to the terminal. The wireless Internet access technique implemented may include a WLAN (Wireless LAN) (Wi-Fi), Wibro (Wireless broadband), Wimax (World Interoperability for Microwave Access), HSDPA (High Speed Downlink Packet Access), or the like.

[0048] The short-range communication module **114** is a module for supporting short range communications. Some examples of short-range communication technology include Bluetooth™, Radio Frequency Identification (RFID), Infrared Data Association (IrDA), Ultra-WideBand (UWB), ZigBee™, and the like.

[0049] The location information module **115** is a module for checking or acquiring a location (or position) of the mobile terminal. For example, the location information module **115** may be embodied by using a GPS (Global Positioning System) module that receives location information from a plurality of satellites. Here, the location information may include coordinate information represented by latitude and longitude values. For example, the GPS module may measure an accurate time and distance from three or more satellites, and accurately calculate a current location of the mobile terminal according to trigonometry based on the measured time and distances. A method of acquiring distance and time information from three satellites and performing error correction with a single satellite may be used. In particular, the GPS module may acquire an accurate time together with three-dimensional speed information as well as the location of the latitude, longitude and altitude values from the location information received from the satellites.

[0050] The A/V input unit **120** is configured to receive an audio or video signal. The A/V input unit **120** may include a camera **121** (or other image capture device) and a microphone **122** (or other sound pick-up device). The camera **121** processes image data of still pictures or video obtained by an image capture device in a video capturing mode or an image capturing mode. The processed image frames may be displayed on a display unit **151** (or other visual output device).

[0051] The image frames processed by the camera **121** may be stored in the memory **160** (or other storage medium) or transmitted via the wireless communication unit **110**. Two or more cameras **121** may be provided according to the configuration of the mobile terminal.

[0052] The microphone **122** may receive sounds (audible data) via a microphone (or the like) in a phone call mode, a recording mode, a voice recognition mode, and the like, and can process such sounds into audio data. The processed audio (voice) data may be converted for output into a format transmittable to a mobile communication base station (or other network entity) via the mobile communication module **112** in case of the phone call mode. The microphone **122** may implement various types of noise canceling (or suppression) algorithms to cancel (or suppress) noise or interference generated in the course of receiving and transmitting audio signals.

[0053] The user input unit **130** (or other user input device) may generate key input data from commands entered by a user to control various operations of the mobile terminal. The

user input unit **130** allows the user to enter various types of information, and may include a keypad, a dome switch, a touch pad (e.g., a touch sensitive member that detects changes in resistance, pressure, capacitance, etc. due to being contacted), a jog wheel, a jog switch, and the like. In particular, when the touch pad is overlaid on the display unit **151** in a layered manner, it may form a touch screen.

[0054] The sensing unit **140** (or other detection means) detects a current status (or state) of the mobile terminal **100** such as an opened or closed state of the mobile terminal **100**, a location of the mobile terminal **100**, the presence or absence of user contact with the mobile terminal **100** (i.e., touch inputs), the orientation of the mobile terminal **100**, an acceleration or deceleration movement and direction of the mobile terminal **100**, etc., and generates commands or signals for controlling the operation of the mobile terminal **100**. For example, when the user touches the touch screen with his finger tip in a flicking manner to perform an operation of quickly moving a select menu (or a selection bar) or a cursor displayed thereon, the sensing unit **140** may sense the user's manipulation to generate a corresponding sense signal.

[0055] Also, when the mobile terminal **100** is implemented as a slide type mobile phone, the sensing unit **140** may sense whether the slide phone is opened or closed. In addition, the sensing unit **140** can detect whether or not the power supply unit **190** supplies power or whether or not the interface unit **170** is coupled with an external device. The sensing unit **140** may include a proximity sensor **141**, which will be described in association with the touch screen.

[0056] The interface unit **170** (or other connection means) serves as an interface by which at least one external device may be connected with the mobile terminal **100**. For example, the external devices may include wired or wireless headset ports, an external power supply (or battery charger) ports, wired or wireless data ports, memory card ports, ports for connecting a device having an identification module, audio input/output (I/O) ports, video I/O ports, earphone ports, or the like.

[0057] The identification module may be a memory chip (or other element with memory or storage capabilities) that stores various information for authenticating a user's authority for using the mobile terminal **100** and may include a user identity module (UIM), a subscriber identity module (SIM) a universal subscriber identity module (USIM), and the like. In addition, the device having the identification module (referred to as the 'identifying device', hereinafter) may take the form of a smart card. Accordingly, the identifying device may be connected with the terminal **100** via a port or other connection means.

[0058] The interface unit **170** may be used to receive inputs (e.g., data, information, power, etc.) from an external device and transfer the received inputs to one or more elements within the mobile terminal **100** or may be used to transfer data between the mobile terminal and an external device.

[0059] In addition, when the mobile terminal **100** is connected with an external cradle, the interface unit **170** may serve as a conduit to allow power from the cradle to be supplied therethrough to the mobile terminal **100** or may serve as a conduit to allow various command signals inputted from the cradle to be transferred to the mobile terminal therethrough. Various command signals or power inputted from the cradle may operate as signals for recognizing when the mobile terminal is properly mounted on the cradle.