WHAT IS CLAIMED IS:

1. A smart medicine box, comprising an upper body and a lower body, the lower body being disposed below the upper body, wherein

the upper body comprises:

a biometric recognizer disposed on an outer surface of the upper body and extending to an inner surface of the upper body;

a main controller disposed on the inner surface of the upper body and coupled to the biometric recognizer, configured to receive a biometric recognition signal to perform determination and confirmation of a user and correspond to a preset medicine taking schedule to control whether the smart medicine box is capable of being opened to take medicine or not and remind arrival of the medicine-taking time;

a plurality of lids disposed on the outer surface of the upper body, each configured to be opened upwards; and

a plurality of latching devices coupled to the main controller, each configured to latch some of the lids and determine, according to a control signal of the main controller, whether one of the lids is capable of being opened or not;

wherein the lower body comprises:

a plurality of cells, wherein an upper opening of each of the cells corresponds to each of the lids, that is, one lid corresponds to one cell, so that the cell forms an accommodating space with the lid, the accommodating space being required for placing the medicine for one dose;

wherein each of the plurality of latching devices comprises:

a plurality of electronic latches, each coupled to the main controller, and configured to receive the control signal output by the main controller to perform latching or opening; and

a plurality of buckles correspondingly disposed in the plurality of electronic latches, each buckle being correspondingly disposed in one electronic latch, wherein the buckle protrudes outwards when the electronic latch latches, and the buckle is retracted into the electronic latch when the electronic latch is opened;

a plurality of press devices, each press device comprises an insert and a clamp; the insert protrudes from a lower surface of the right side of the lid; the clamp is disposed corresponding to a position where the insert is disposed;

wherein each lid is provided with a fastener corresponding to each electronic latch, and each fastener corresponds to each buckle so that latching or opening of the lid is performed according to the control signal of the main controller; and

wherein the upper body is provided with a screen; the screen is disposed on the outer surface of the upper body and extends to the inner surface of the upper body so that the screen is coupled to the main controller; the main controller is correspondingly provided with a display module coupled to the screen; the screen is configured as a touch screen; the user performs setting of the date and time via touch control; and the touch screen is provided with a distribution pattern correspondingly displaying the positions of the lids, and based on the display of the distribution pattern, the user ascertains which lid is selected to be opened to take medicine.

2. The smart medicine box according to claim 1, wherein the main controller comprises:

a sound recognition controller configured to perform sound recognition and control on the user;

a date and time controller configured to perform date setting and control on the smart medicine box;

a medicine box locking controller configured to perform locking and control on the lids of the smart medicine box;

a biometric recognition controller configured to perform biometric recognition and control on the user;

a graphics processing unit separately coupled to the sound recognition controller, the date and time controller, the medicine box locking controller, and the biometric recognition controller, and configured to receive signals output by the sound recognition controller, the date and time controller, the medicine box locking controller, and the biometric recognition controller, and configured to perform determination and confirmation of the sound recognition of the user, perform setting of the correct date and time about whether the lids are capable of being opened or not, perform control on whether the lids are capable of being locked or not, and perform recognition and determination on whether the biological characteristics of the user are correct or not; and

a plurality of control signals output by the graphics processing unit and configured to control the latching devices of the smart medicine box to perform latching or unlatching of the lids.

3. The smart medicine box according to claim 2, wherein the biometric recognizer is a biometric recognizer for face recognition, namely, an image capture module, the image capture module coupled to the biometric recognition controller to read a face image of the user; and the biometric recognition controller comprises:

an image signal filter configured to receive and filter a face image signal of the image capture module; and

an image signal amplifier coupled to the image signal filter and the graphics processing unit and configured to amplify the filtered face image signal and then transmit the same to the graphics processing unit for control processing;

wherein the graphics processing unit is, corresponding to the biometric recognition controller, provided with:

a face image database storing at least one preset face image data;

a face image comparison module coupled to the face image database and configured to receive the face image signal transmitted by the image signal amplifier and then compare the face image signal with the preset face image base;

an operation control module coupled to the face image comparison module and configured to perform operation and determination on the face image signal to make a decision of latching or unlatching; and

a comparison result output control signal unit coupled to the operation control module and configured to convert the comparison result into a control signal output by the graphics processing unit.

4. The smart medicine box according to claim 2, wherein the biometric recognizer is a biometric recognizer for fingerprint recognition, namely, a fingerprint reading module, the fingerprint reading module coupled to the biometric recognition controller to read a fingerprint image signal of the user; and the biometric recognition controller comprises:

a fingerprint image signal amplifier coupled to the fingerprint reading module and the graphics processing unit and configured to receive and amplify the fingerprint image signal of the fingerprint reading module and transmit the fingerprint image signal to the graphics processing unit;

wherein the graphics processing unit is, corresponding to the biometric recognition controller, provided with:

a fingerprint database storing at least one preset fingerprint data;

a fingerprint image comparison module coupled to the fingerprint database and configured to receive the fingerprint image signal transmitted by the fingerprint image signal amplifier and then compare the fingerprint image signal with the preset fingerprint database;

an operation control module coupled to the fingerprint image comparison module and configured to perform operation and determination on the fingerprint image signal to make a decision of latching or unlatching; and

a comparison result output control signal unit coupled to the operation control module and configured to convert the comparison result into a control signal output by the graphics processing unit.

5. The smart medicine box according to claim 1, wherein the medicine box locking controller comprises:

an electronic latch coding setting module coupled to the graphics processing unit and configured for the user to set a coding sequence of the lids;

an electronic latch state display module coupled to the graphics processing unit and configured to determine and recognize that the lids are in a latched state or an unlatched state; and

a screen mapping medicine box display module coupled to the graphics processing unit and configured to display on the screen the distribution pattern corresponding to the lids;

wherein the graphics processing unit corresponds to the electronic latch coding setting module, the electronic latch state display module and the screen mapping medicine box display module and generates at least an electronic latch control signal via a control signal transmission interface.

6. A controlling method of a smart medicine box, applied to the smart medicine box according to claim 2, the steps of the controlling method of a smart medicine box corresponding to a medicine user, the smart medicine box, a biometric recognition controller for face recognition, the medicine box locking controller, and the sound recognition controller, the controlling method of a smart medicine box comprising the steps of:

taking a medicine by the medicine user at the correct time;

confirming, by the smart medicine box, whether the medicine user is a correct one or not;

permitting to take medicine after it is determined by the biometric recognition controller for face recognition that the medicine user is a correct one;

unlocking by the medicine box locking controller to take medicine; and

unlatching a corresponding lid of the smart medicine box so that the medicine user takes the medicine;

wherein when the medicine user takes the medicine at incorrect time, the controlling method of a smart medicine box comprises the steps of:

confirming, by the smart medicine box, whether the time at which the medicine user takes the medicine is correct or not;

if the medicine-taking time is determined to be incorrect after the medicine user is confirmed by the biometric recognition controller for face recognition,

latching, by the medicine box locking controller, the smart medicine box; and

enabling, by the medicine box locking controller, the sound recognition controller to perform voice prompt, and reminding, by the sound recognition controller, the medicine user about the next medicine-taking time.

7. The controlling method of a smart medicine box according to claim 6, comprising a step of latching or unlatching the smart medicine box corresponding to the medicine user, the smart medicine box, the date and time controller, and the medicine box locking controller, the step of latching or unlatching the smart medicine box comprising:

setting the medicine-taking time by the medicine user;

writing the medicine-taking time to the smart medicine box, and setting by the date and time controller;

after setting the medicine-taking time, controlling, by the medicine box locking controller, the smart medicine box to continue locking before the medicine-taking time, during which, the medicine user is not permitted to take medicine;

upon arrival of the medicine-taking time, starting, by the date and time controller, the medicine box locking controller to trigger unlocking at the medicine-taking time, and unlatching a corresponding lid of the smart medicine box; and

taking the medicine by the medicine user.

8. The controlling method of a smart medicine box according to claim 6, comprising a step of reminding the medicine-taking time of the smart medicine box corresponding to the medicine user, the smart medicine box, the date and time controller, and the sound recognition controller, the step of reminding the medicine-taking time of the smart medicine box comprising:

setting the medicine-taking time by the medicine user via the smart medicine box;

writing the medicine-taking time by the date and time controller of the smart medicine box;

triggering the sound recognition controller by the date and time controller upon arrival of the medicine-taking time; and

making a sound by the sound recognition controller to remind the medicine user to take medicine.