

# **Fountain configuration management 2006 operation and instruction**

## **Catalog**

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## 1. Overview

Software matches dedicated controller ,do not set communication protocol, arbitrarily set fountain water-type corresponding output points, graphics and color of control points can be selected, and at the same time have the function of scheduling songs , music spectrum analysis, manual / automatic choice, truly realize the complete synchronization control between music and fountain.

- 1、 Users can produce their own layout or background figure, according to actual water-type layout place control points based and each control point properties based on background figure (including profile, action after the display , ID selection of corresponding output point) .
- 2、 Fountain equipment manufacturing computers or fountain equipment users, can produce different type of songs play-lists, corresponding program, and set system or lantern timing shutdown.
- 3、 Realizing strict synchronization between music and water-type, supporting various water-type and strong expansion ability. Realizing synchronization between music and water-type in the way of music by time corresponding to water-type. Using open programming technologies, ordinary computer operator can change.
- 4、 Supporting many kinds of water-type such as pumps, lamps, running fountain, frequency changers, having various initialization water-type which used directly, and engineers can extend personalized water-type.
- 5、 True automatic musical fountain. The software supports manual, automatic, program-controlled control mode, etc. In automatic mode ,when playing music the software do the spectrum analysis of real-time audio, and using fuzzy recognition technology, identify musical emotion. After a disposition, any music can matches certain water-type, realizes true automatic musical fountain. Having excellent music following ability, and when music is playing , according to the principle of Acoustics psychology, software captures the music changes using Intelligent identified technology, at the same time water-type also synchronize changes. To eliminate the time difference between pump action and music rhythm, software sets overtime of pump action, so realizes the effect of water-type following music.
- 6、 **Pre-control way:** is based on a certain music emotion and mood, artificial produce various water-type, movement, lighting, water pump turned on and off, so that the fountain show matches with the music emotion and mood.

## 2 Control points placing

### 2. 1 Add control points

With the mouse users double-click the icon of fountain configuration management in the desktop, then enter the configuration interface, users must operate in unlock state, the icon

show , indicates that to unlock,  indicates that in lock state, now users can not operate. You can unlock with the mouse click, if you set the password, required to enter the password to unlock. Only in the unlock state and in design mode you can draw, click the

icon  in toolbar so that you can layout drawing in interface and select the appropriate

control points. Add control points: click the icon  in toolbar or right-click at file blank then select control the point, when there will be the design diagram as Figure1-1. Clicking the new button will show the design diagram as Figure1-2, now you can enter the control point ID and name, after setting close the design diagram.

## 2. 2 Control points properties settings

The control point ID and name can be defined by users, if users want a certain control point in the automatic can also be manually opened, users must click the option, which says “in the automatic mode can be opened manually” (Figure 1-2). If users want to change the control point name, you can point this control point, and then click to change. If you want to delete one control point, you only point it and click to delete. In the state of control point properties (Figure 1-3), you can set control point state. There are 3 states: always bright, blink, and turn, users also can select color and frequency. Color express changes of color when blink, frequency express the speed of blink.

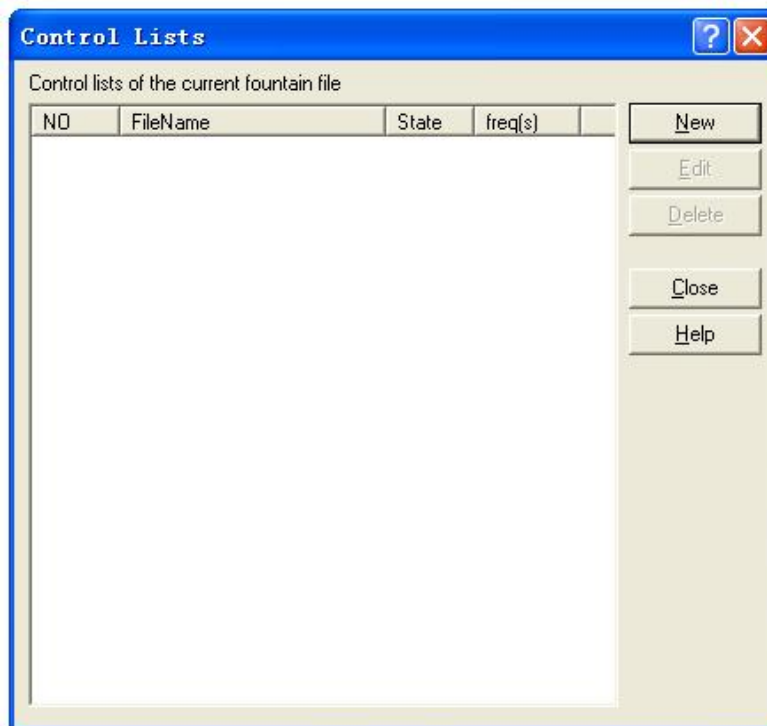


Figure1-1

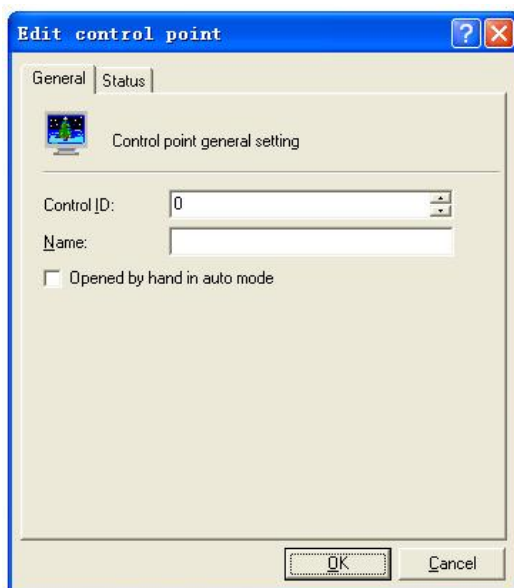


Figure1-2

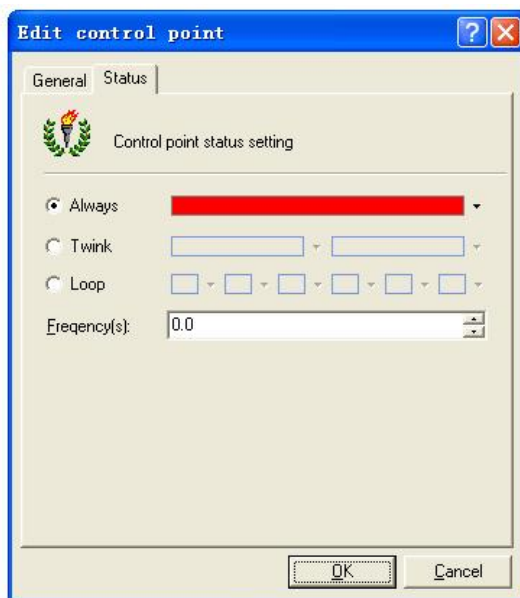


Figure1-3

## 2. 3 Object Properties settings

Draw a circle in the map, with the mouse double-click the circle.(Figure 1-4)you can choose the fulfill color, line color and width in the option of object color and size. In the drop-down menu (Figure 1-5) of the control point, select the circle corresponding control points, in the operation panel you can also note the control points, just click the  then placed the text box next to the object which needs the Notes, double-click the name of input control points and attention that the text box must be placed in the bottom, or else it may block the control point so the control points can not be operated. To place the text box in the bottom as long as point in the text box and click . After finishing all design, save the file.

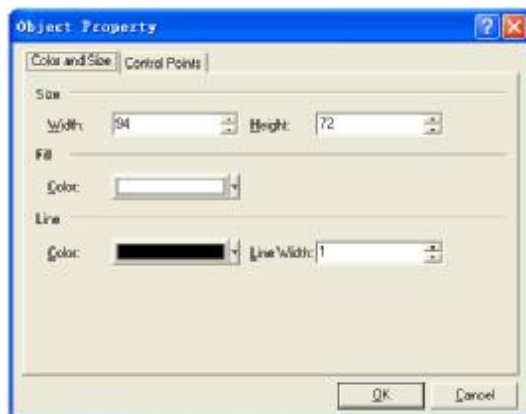


Figure1-4

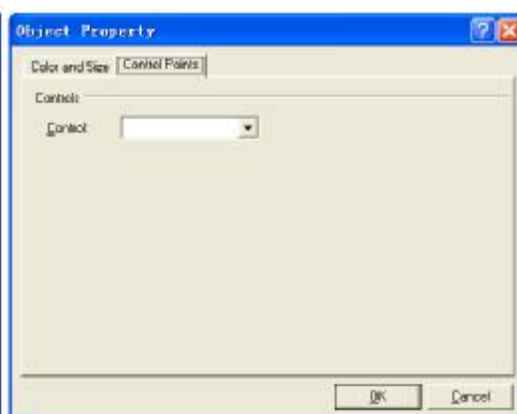


Figure1-5

## 2. 4 Background settings

If there are customers feel that the background of the layout is not good, then you can click on Properties, click on the background , there will appear the design diagram of Figure 1-6, click on Browse to select a piece of your favorite pictures, click to confirm it. Should be noted that the choice of picture should be a little light color, if background color is too garish, or the color is similar to the control point, the control point is not easy to see and the layout shows confused.

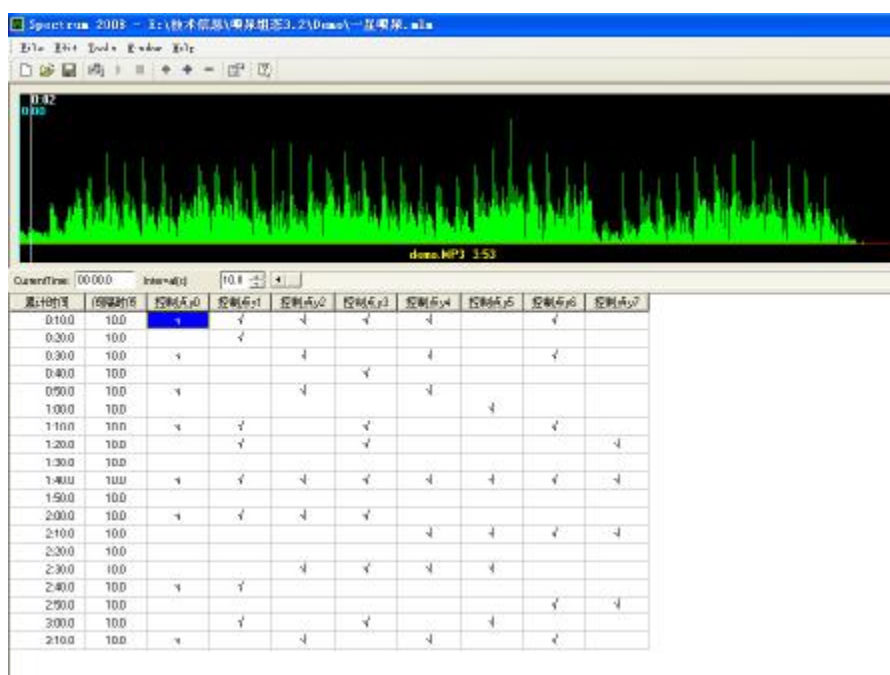


Figure1-6

## 3 Control document productions

### 3. 1 control document brief statement

Producing control document is the core of the fountain configuration software, mainly used to music control. Click on “control document production” in tool, and enter the interface (Figure 1-7). Users firstly transfer the music(the song must be the form of MP3) to “control document production” and then can see the song's spectral analysis(Figure 1-8) .



### 3. 2 control points properties changes

The number and names of control points can be changed. Click “properties” in tool (Figure 1-9) , users can change the number of control points according to the total control points, also can change the names of points in “properties ”-----“remark” (Figure 2-1) . Pay attention that the control point which can also be manual in automatic mode do not click to make sure after control document



Figure1-9

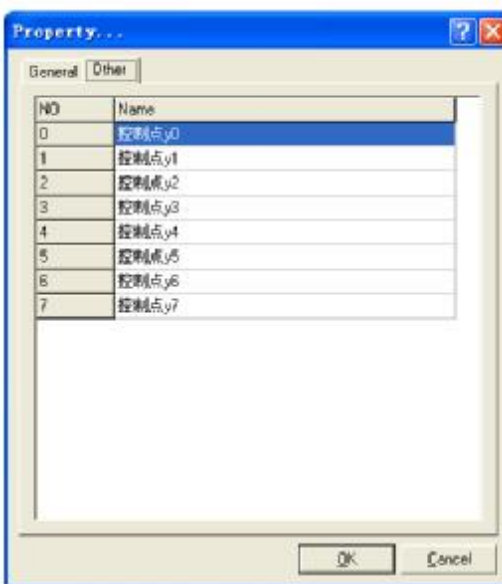


Figure2-1

### 3. 3 Accumulation time points adding , the relationship of time points and control points

There are two kind of way Of accumulation time addition: 1 add time follow accumulation time to click  2 add time follow interval time to click  interval time can be changed,  is deleting time. You can also select two kinds of way and delete time point in editing mode, and there is more direct way ,which is double-click in spectrum analysis .you can see that time points addition. When double-clicking blue line can be showed in spectrum analysis, white line expresses time of song playing,   express play and stop (Figure 2-2). When accumulation time (set by users) is 3 second, double-click on 0, 3 and 7. It means control points 0,3,7 will output when the song plays 3 second(the number of control point is set by users) , control points 0,3,7 stop outputting at 6.2S after outputting 3.3S, then control points 1,6 output. This can be followed by analogy. And there is another quick way of producing control document: open control document production, after adding MP3 click edit to choose quick programming way, so there will be programming shortcut dialog (Figure 2-5). Set interval time and sequence of steps and determine it. After finishing all save document and return to main interface, choose

to click music play list (Figure 2-3), click on the icon  in the bottom-left corner of the

music list, transfer the music as well as click on the  to transfer corresponding document (Figure 2-4) . After finishing it then click to make sure.

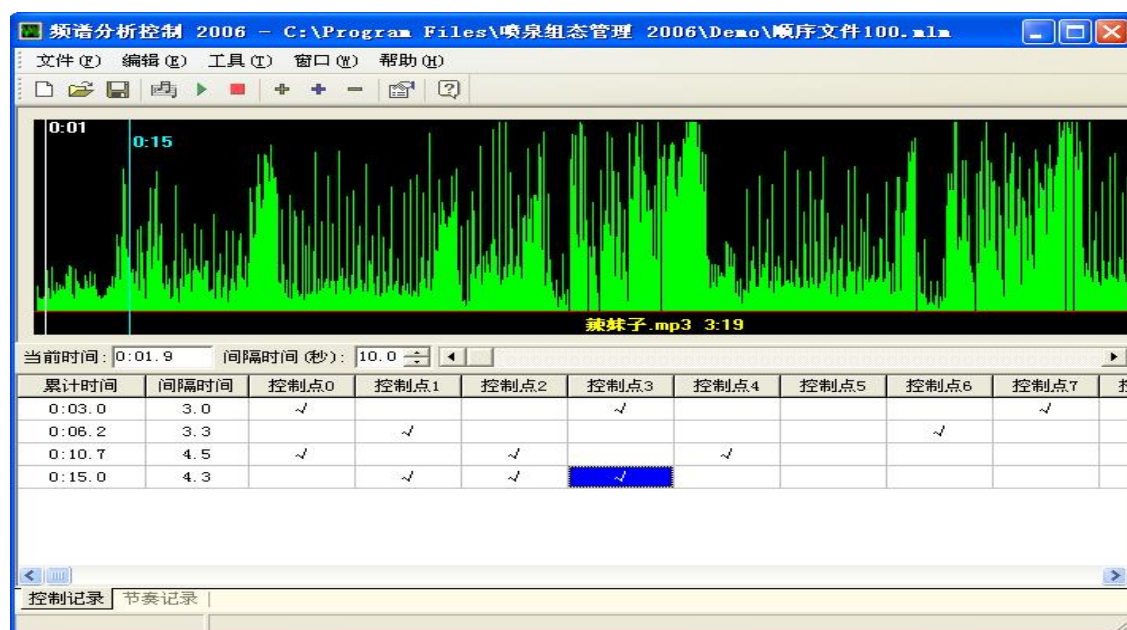


Figure2-2

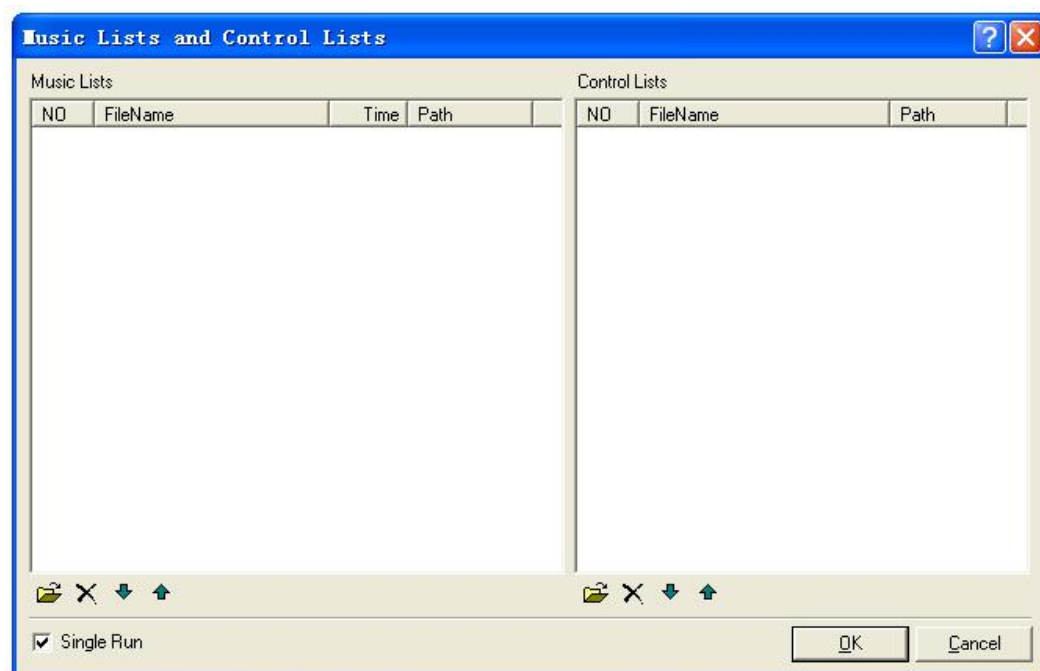


Figure2-3



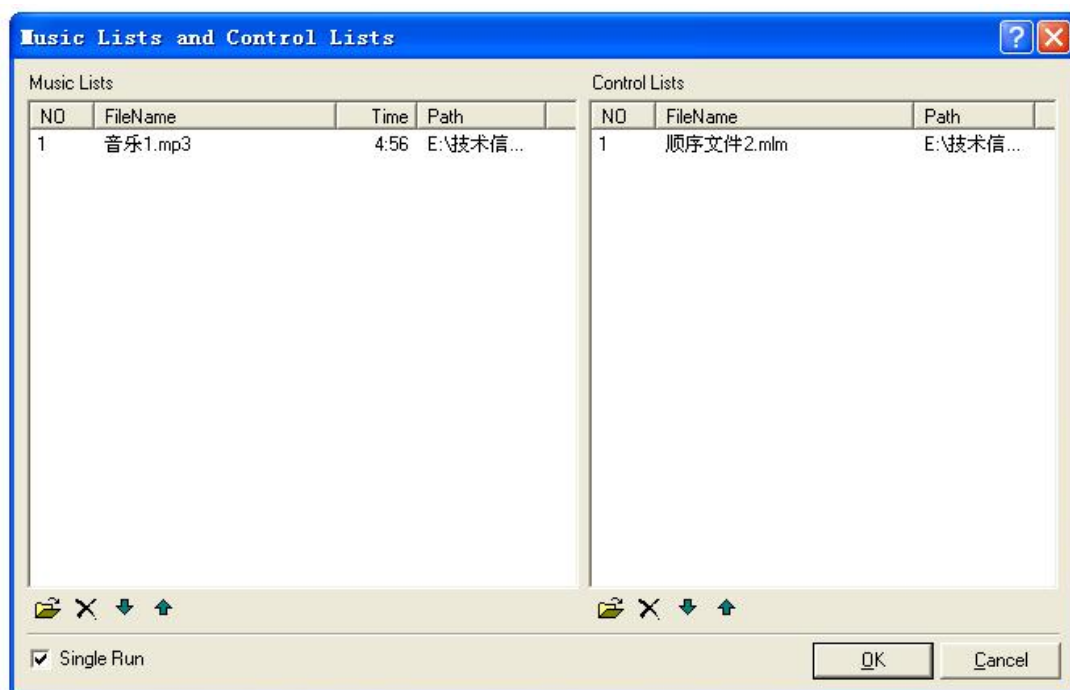


Figure2-4



Figure2-5

### 3. 4 rhythm record production

In the actual situation may be encountered that users want to let rhythm more strong of one control point corresponding fountain output following music. Click rhythm record(Figure 2-6) in the left-bottom in control document production, users can select to let which control point rhythm more strong in rhythm control , then with music playing when users want more rhythm in the treble part, you just left-click in the treble part. If you want output time longer click longer (Figure 2-7) . After finishing it save all settings.

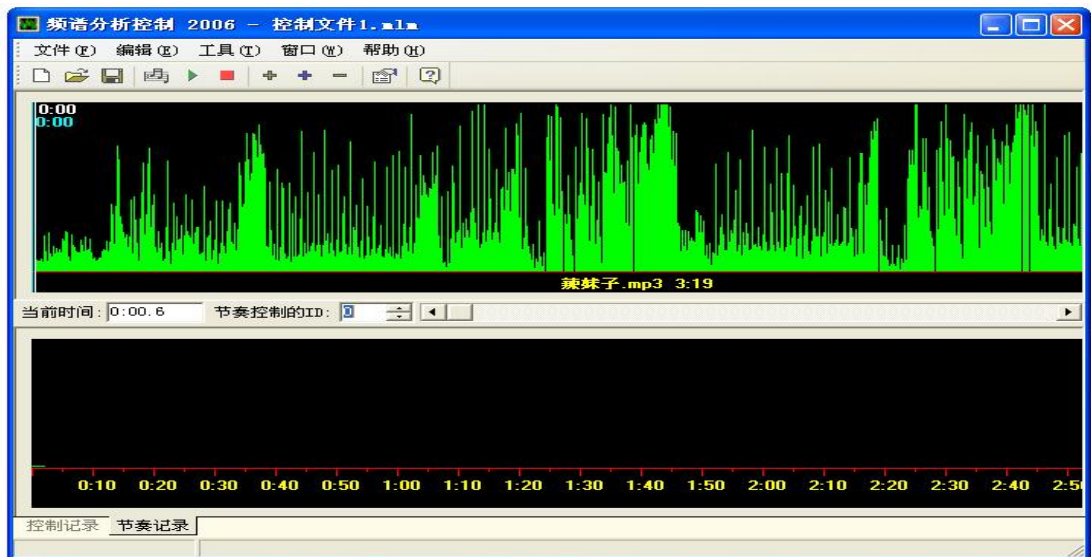


Figure2-6

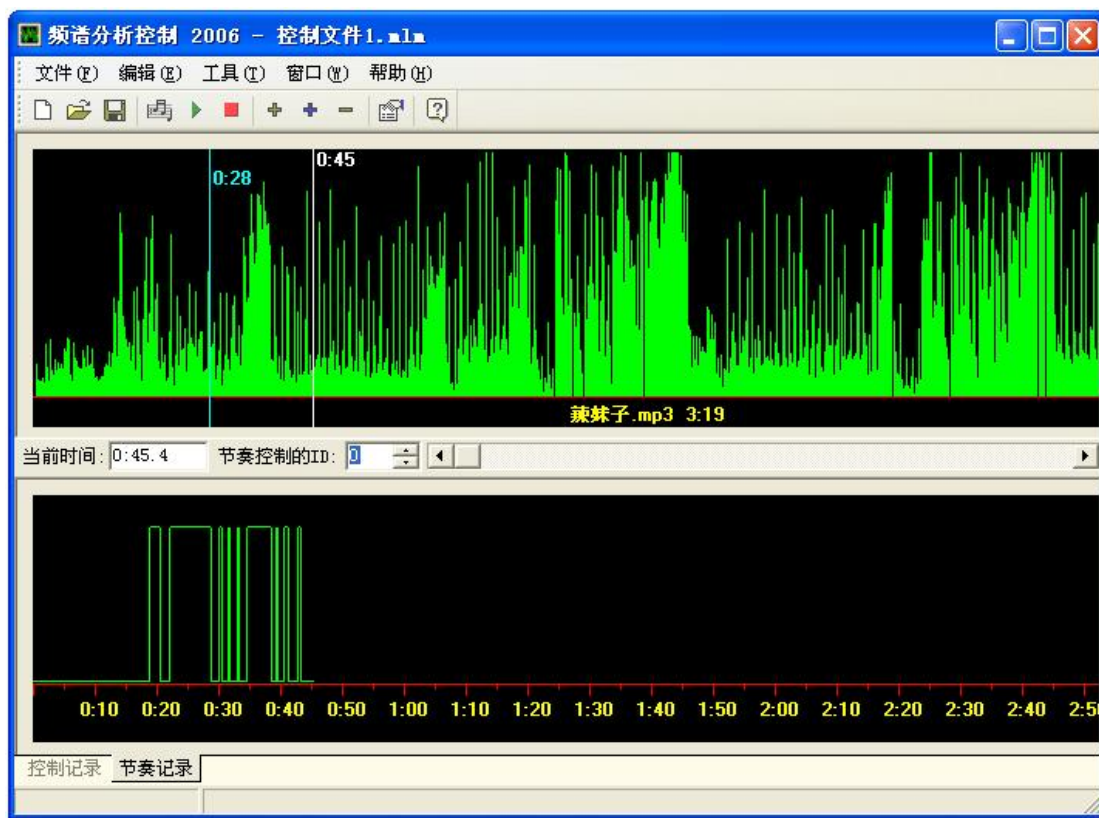


Figure2-7

## 4 common features of configuration software operation

### 4. 1 configuration software operation

There are 3 ways of fountain configuration software operation: 1: manual 2: automatic 3: Design mode

1、manual: click on  in the toolbar, enter manual operation so you can operate control points manually, double-click corresponding icon can finish it. When you need to close, just double-click.

2、automatic: click on  in the toolbar, enter manual operation, click it to operate according to control document to output automatically. Generally after designers finishing the design the document is set to open the file into the automatic mode (Figure 3-1).

3、Design mode: click on  in the toolbar, enter design mode, users can set the music play list and control document list. Advanced users can design control the screen, and produce control document, set timing task etc. Suggest users not to use the function, designers set up a lock password after finishing design, so if no password will not be able to modify the operation.

#### 4. 2 overtime and time settings and password settings

When the control point will output too early, click options (Figure 2-8) in tool, then change the action overtime to make it consistent with the next time. Configure software has the function of timing shutdown(Figure 2-9) . In order to prevent others changes you can set a password, click on the icon  in the toolbar, there will appear dialog box (Figure 3-1) . Enter the password in “lock password”, click to make sure. When you want to change the document, you need to enter the password.

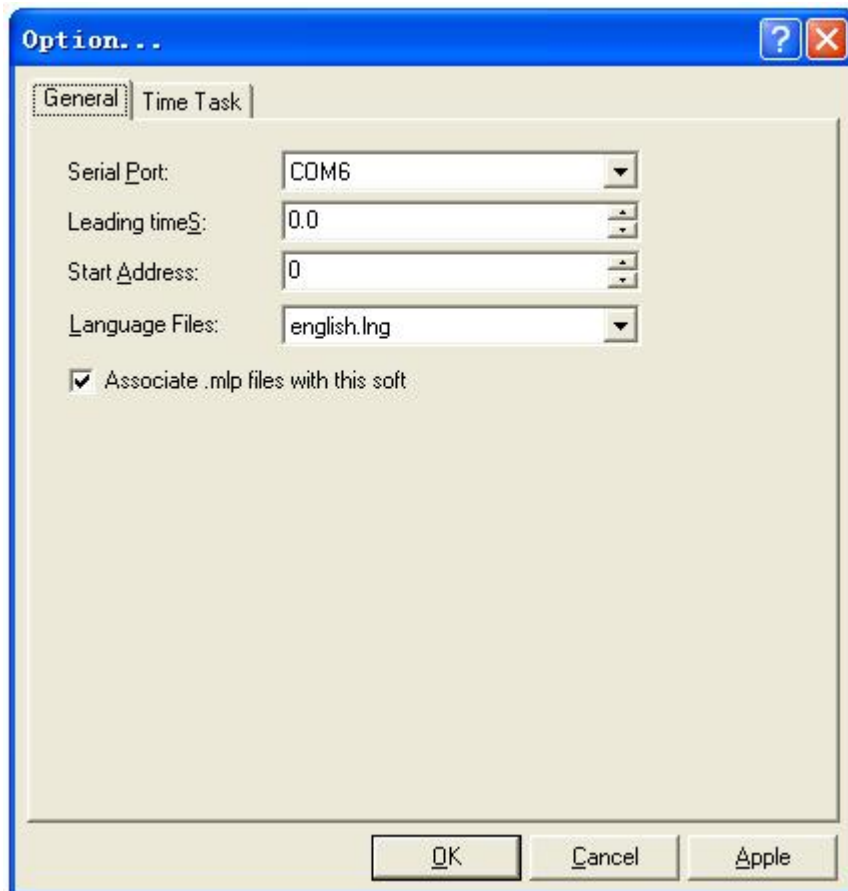


Figure2-8

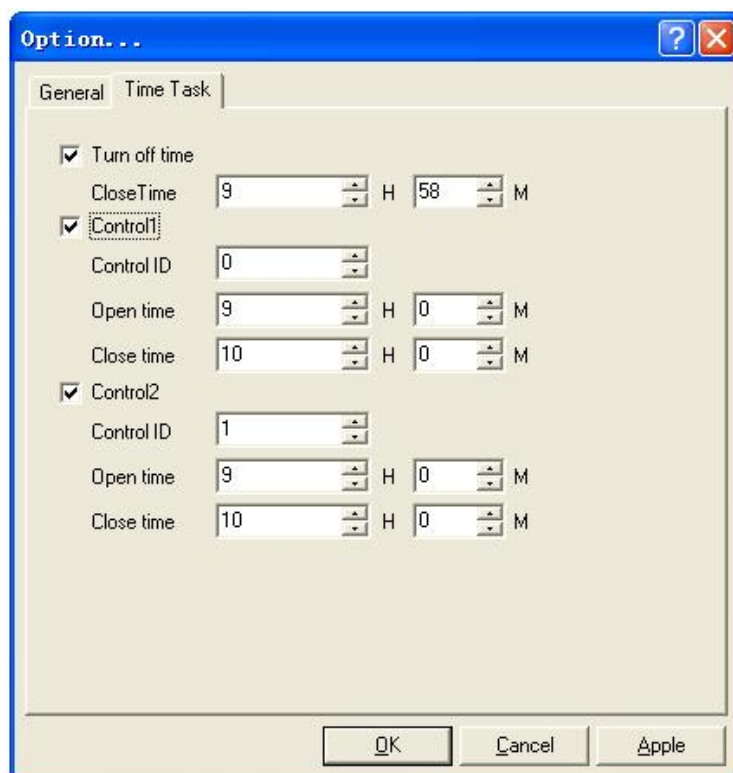


Figure2-9

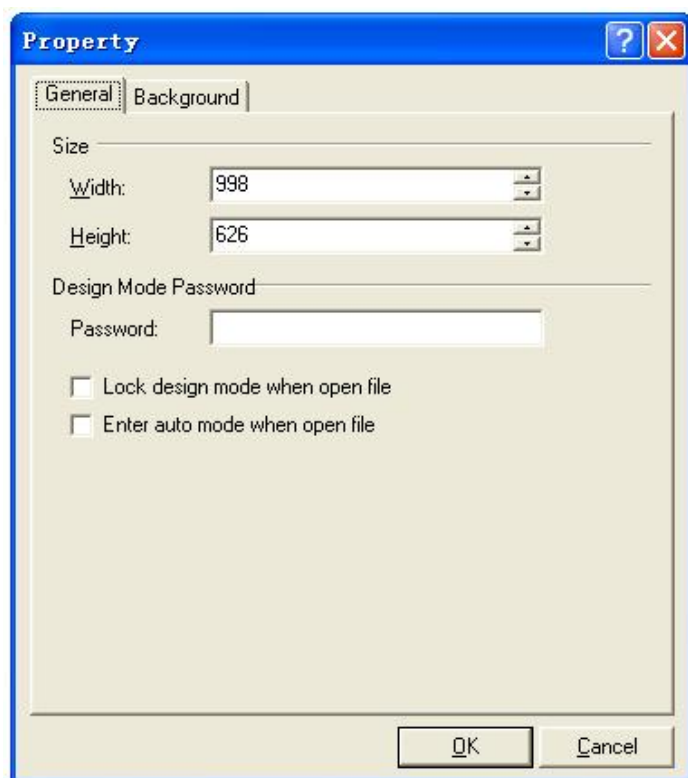


Figure3-1

## 5 NOTES

1. The software carries a dongle which must be kept under safe custody. A set of software with a dongle, if you lost it we take no responsibility. If dongle is damaged please contact with us.
2. In the production of controlling document please pay attention that there should be no output in two accumulated time points of the end of singing and song end. Otherwise when the song end output will still continue, the fountain will still spurt.
3. When you press “manual” or “automatic”, if there will be “hardware not be detected” in the screen, please check the communication cable between computer and controller whether normal.
4. If your computer’s system is windows2000, you need to install a patch. When you install we will provide.
5. Sometimes dongle will can not be identified when you register, please pull out the dongle, plug it again. If the dongle is still not detected, you should re-install the latest driver of USB.
6. When you produce the document, do not choose time point before music begins.