L.I.S 2 English Manual

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VLSystem

I n d e x

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I. Introduction

1-1. L.I.S 2 Key Features

LIS Indicator displays in real-time information of PC hardware and software, multimedia through the VFD and LCD windows. For useful PC using, it provide mail checking, message alarm and auto fan controlling. And also it can display various information for the multimedia related to M-Play (Multimedia remote controller) which is released from our firm.

- Support Windows XP Media Center Edition

When L.I.S 2 Indicator operates "**Windows XP Media Center Edition 2005**" of Microsoft, it is upgraded to display operating information.

- Multimedia information

Visualization – It displays various pieces of playing information and graphic analyzer with Winamp or Windows Media Player.

PC sound – It displays an graphic analyzer to accompany the sound.

- System information

It supports Hyper-Threading CPU, displays hardware and usage's information of CPU/ RAM/ HDD.

L.I.S 2 indicator displays software information of OS/ Network/ Direct X and also displays various data through SpeedFan/MBM (Motherboard Monitoring).

- Facility function

POP3 mail checking - If new mail has arrived, it will be indicated on the display panel.

Message alarm - On the corresponding date, the indicator will display a reminder if the user has an appointment or obligation by displaying the message or playing sound file.

- Useful function

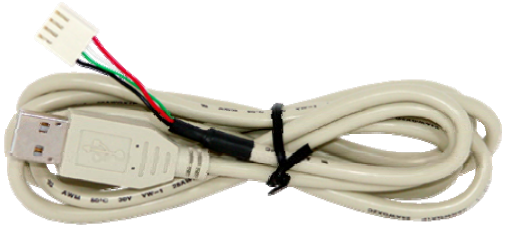
CG Builder – User can be built a unique own symbol mark or logo with the CG builder.

1-2. Specification

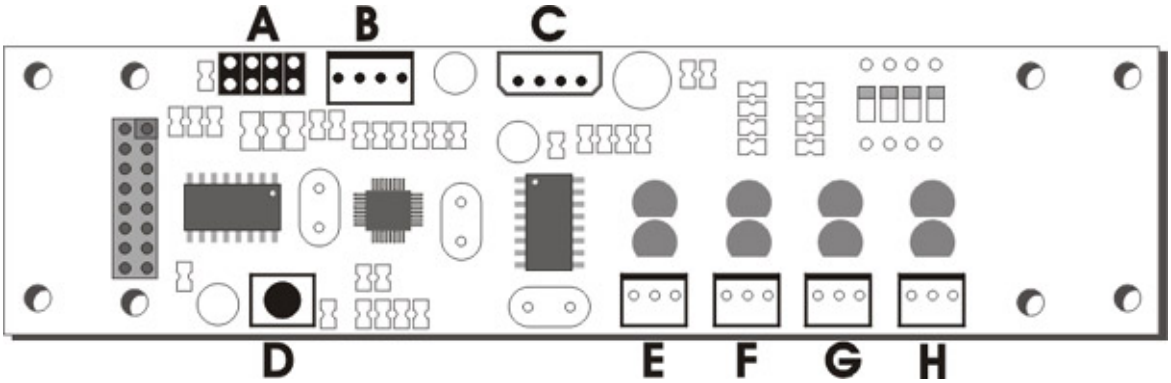
Controller	- USB 1.1 / 2.0 support
LCD	- Liquid Crystal Display - Blue Negative type - HD44780 Compatible - Character type - 20 x 2 Size
VFD	- Vacuum Fluorescent Display - HD44780 Compatible - Character type - 20 x 2 Size
CABLE	- USB Cable (Internal 1ea, External 1ea) - Power Cable (1ea) - W33EC (3Pin Fan Extend Cable, 3ea) - W34EC (4Pin Fan Extend Cable, 2ea)
INPUT VOLTAGE	- DC 5V - DC 12V
Dimension	- 149.30(W) × 42.50(H) × 80.0(D) mm

1-3. Package & Controller layout

Please check hereunder L.I.S 2 specification before using.

L.I.S 2 Body (1ea)	Install CD (1ea)	Install Guide (1ea)
3Pin Fan Extend Cable (3ea)	4 Pin Fan Extend Cable (2ea)	
		
Power Cable (1ea)		
USB Internal Cable (1ea)	USB External (1ea)	

- Controller layout & Jumper setting



A - Color of LCD backlight, Order Reset / R / G / B. Default - Blue.

Important: Do not change the setting as this might cause damage to the product.

B - Connector to the USB cable

C - Connector to the Power cable

D - V.R (Various Resistance). Text brightness configuration

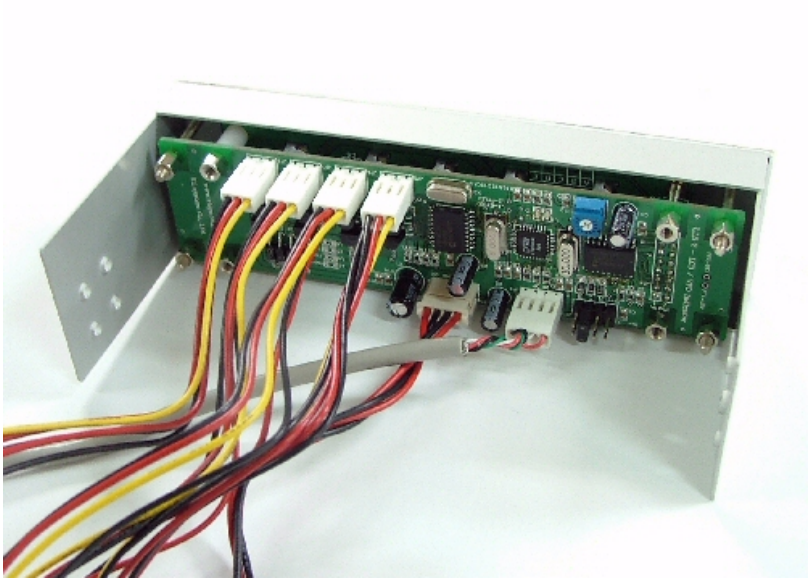
E, F, G, H - Fan speed controller: 1CH, 2CH, 3CH, 4CH

II. Install Guide

1. Turn off the PC

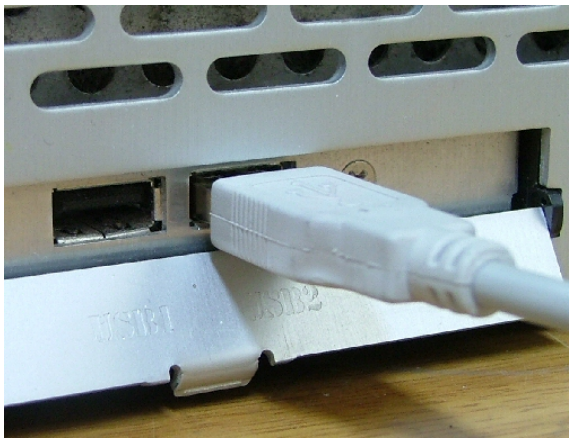
2. Connect the USB, power and fan cables to the L.I.S 2

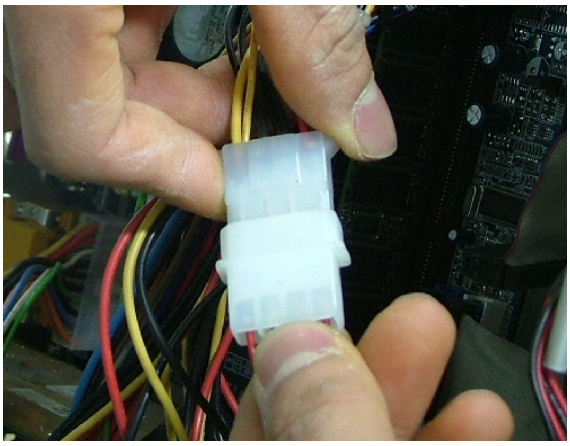
3. Either the external or internal USB port may be used. After the fan cable has been installed, arrange the fans by tying the cable. This will make the process much easier if more fans need to be installed in the future.



4. Slide L.I.S 2 into the 5.25” bay

5. Connect USB cable as well as the Power cable





6. L.I.S 2 can also be installed on USB1 or USB2 headers in your motherboard. Refer to your motherboard manual to find out more about this process.

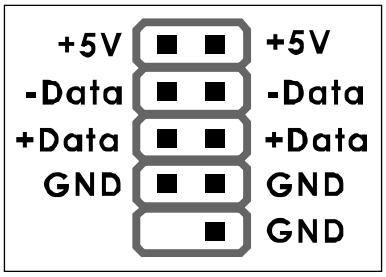
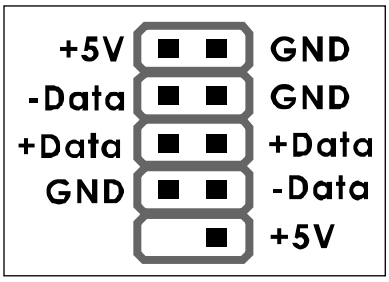
7. After turning on the PC, install the Driver located in the ‘USB_Driver’ folder of the CD provided.

Installing in to internal USB port

1. If the electrical charges are misconnected, it might cause a critical damage to L.I.S 2.

2. There are +5V, -Data, +Data, GND connecters on the USB. However, not all motherboard has the same layout. Please refer to your motherboard manual before connecting to the internal USB port.

3. USB pin layouts are shown below. Before installing the product please refer to your motherboard manual.

	ASUS, INTEL, IWILL, SOYO, TYAN, ABIT, AOPEN , UNITEC, MSI, EPOX, SUMA, etc.
	GIGABYTE, ECS, AZZA, etc.

4. USB Pins definition

+5V	+5 or VCC or (USB) Power
-Data	-D or USBP- or USBN
+Data	+D or USBP+ or USBP
GND	GND or GROUND

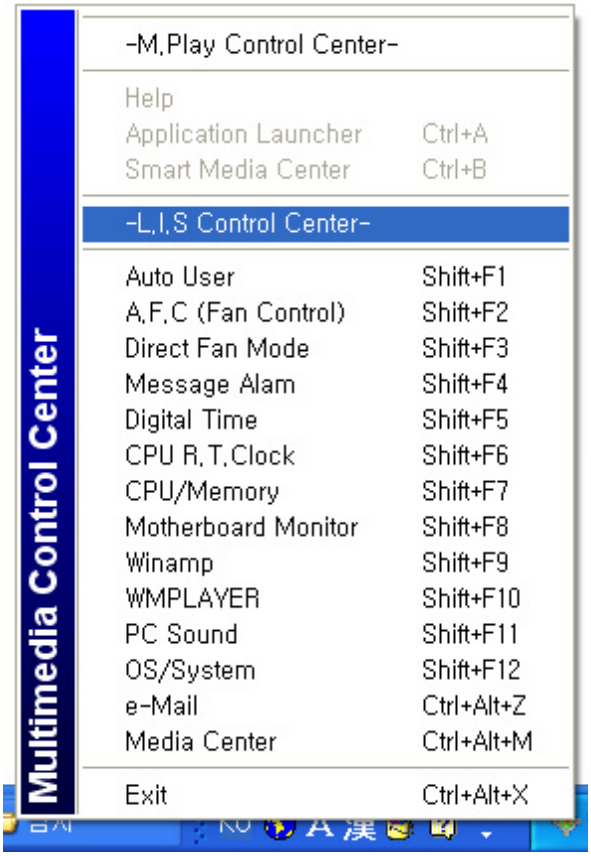
Some manufacturers use different name as ‘NC’ or ‘Key’.

III. Multimedia Control Center Guide

All functions of L.I.S 2 can be managed easily from the Multimedia Control Center. Because the program has so many features, it might rather be difficult if you are new to L.I.S 2. So please go through the guide carefully.

3-1. Intro

To see the extracted menu, hover the mouse pointer on the Control Center which is located the tray on the right down side of monitor and right click.



The Control Center features menu will slide up from the Control Center. We will explain the details of each option in the section below.

After you click the slide up menu, it displays the select menu. Then you can set the menu at Control Center.

Help : You can see the Control Center's "Help".

Basic setup : Setting hardware's device and start/ ending message.

Auto User : This feature can organize and order items according to priority.

A.F.C (Fan Controller) : This can adjust the speed settings of your fan.

Message Alarm : Setting the function of alarm.

Time : This displays the current time and date.

R.T.Clock : RTC display for watching the CPU's running clock.

CPU / RAM : It displays you the CPU information and resource usage.

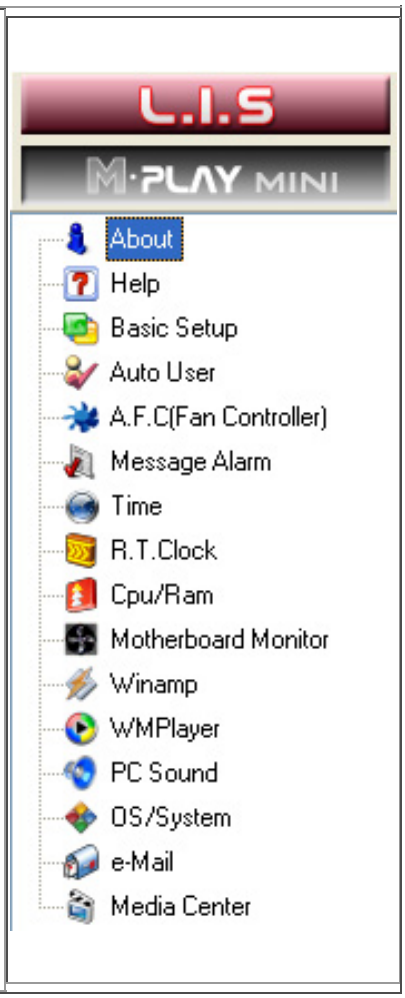
Motherboard Monitor : It can set expression user who is installed SpeedFan/MBM.

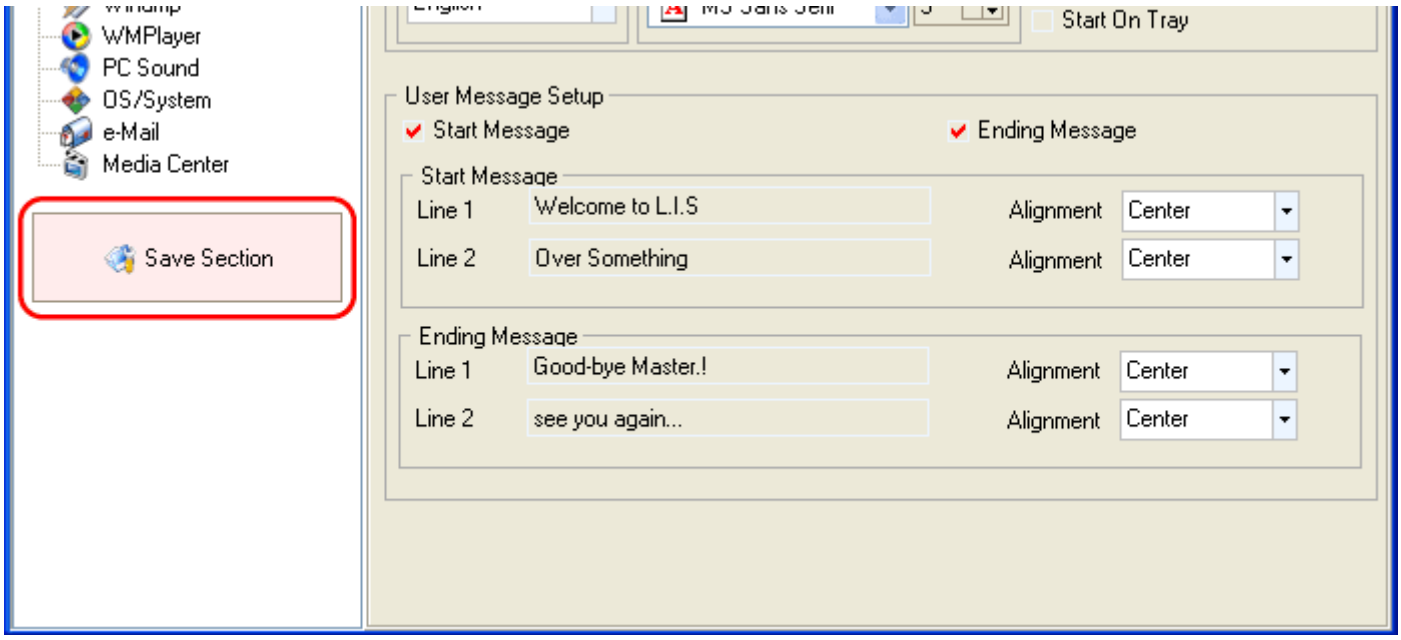
Winamp : This feature displays the graphic analyzer through the Winamp plug-in.

WMPlayer : This displays the graphic analyzer screen through the Windows Media Player plug-in.

OS / System : It shows the system and O/S information.

E-mail : The Control Center will check POP3 mail accounts that the user has configured.





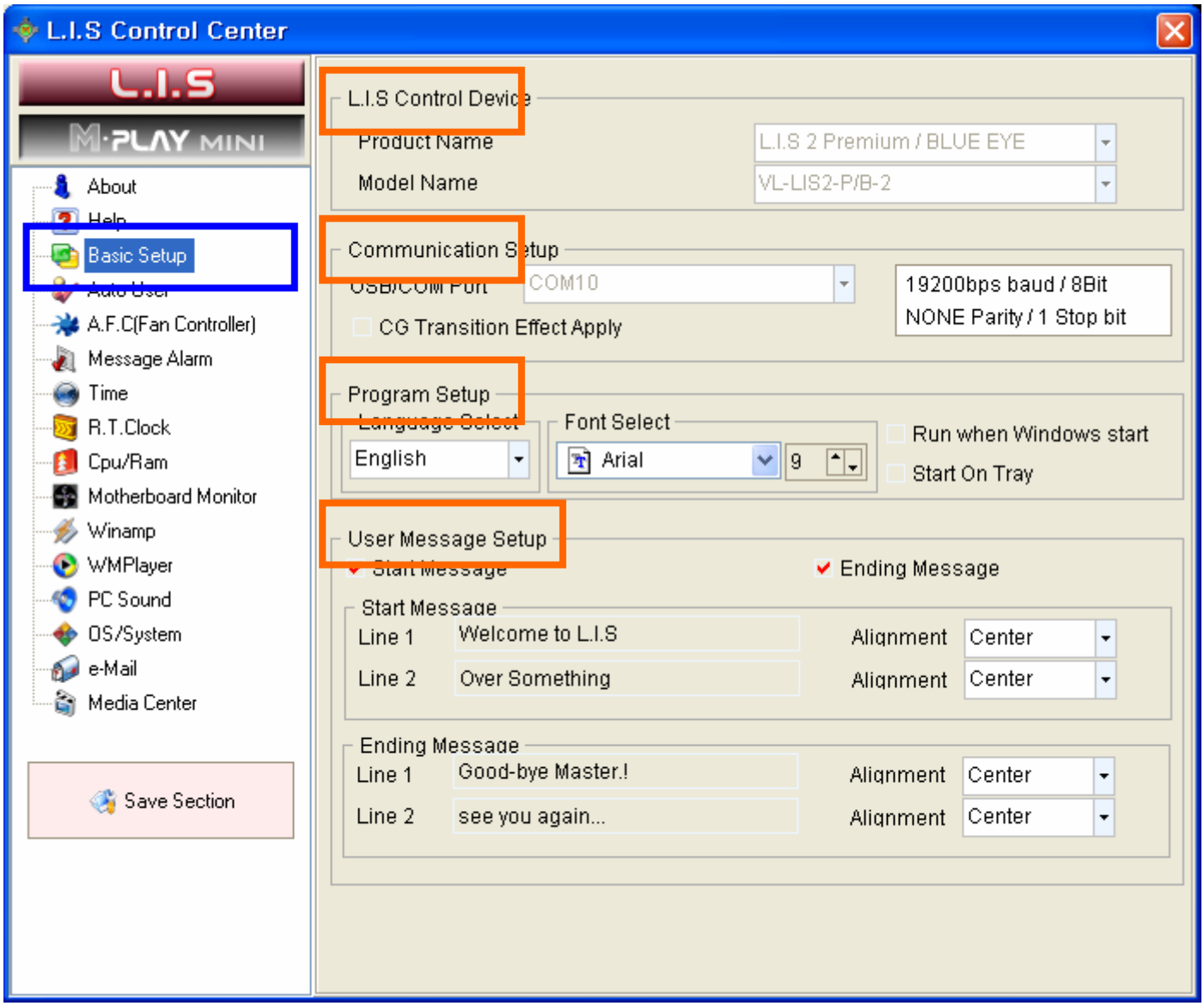
Note – Please be advised that after altering the settings, you must click on '**Save section**' to save the settings.

3-2. Control Center

Basic Setup

Control Center

You can assign the USB/Com port, font, language and change the Starting and Ending Messages.



L.I.S Control Device : Select to suit your personal product.

Communication Info : After installing the Control Center for the L.I.S 2, it will automatically detect COM ports. However POP need to setup manually. In most cases this will not be necessary.

Program Setup: You can select Control Center language as well the letter type. When it starts Windows, you can set to start Control Center together and position the tray at the right down side.

User Message : You can write your own starting/ ending messages.

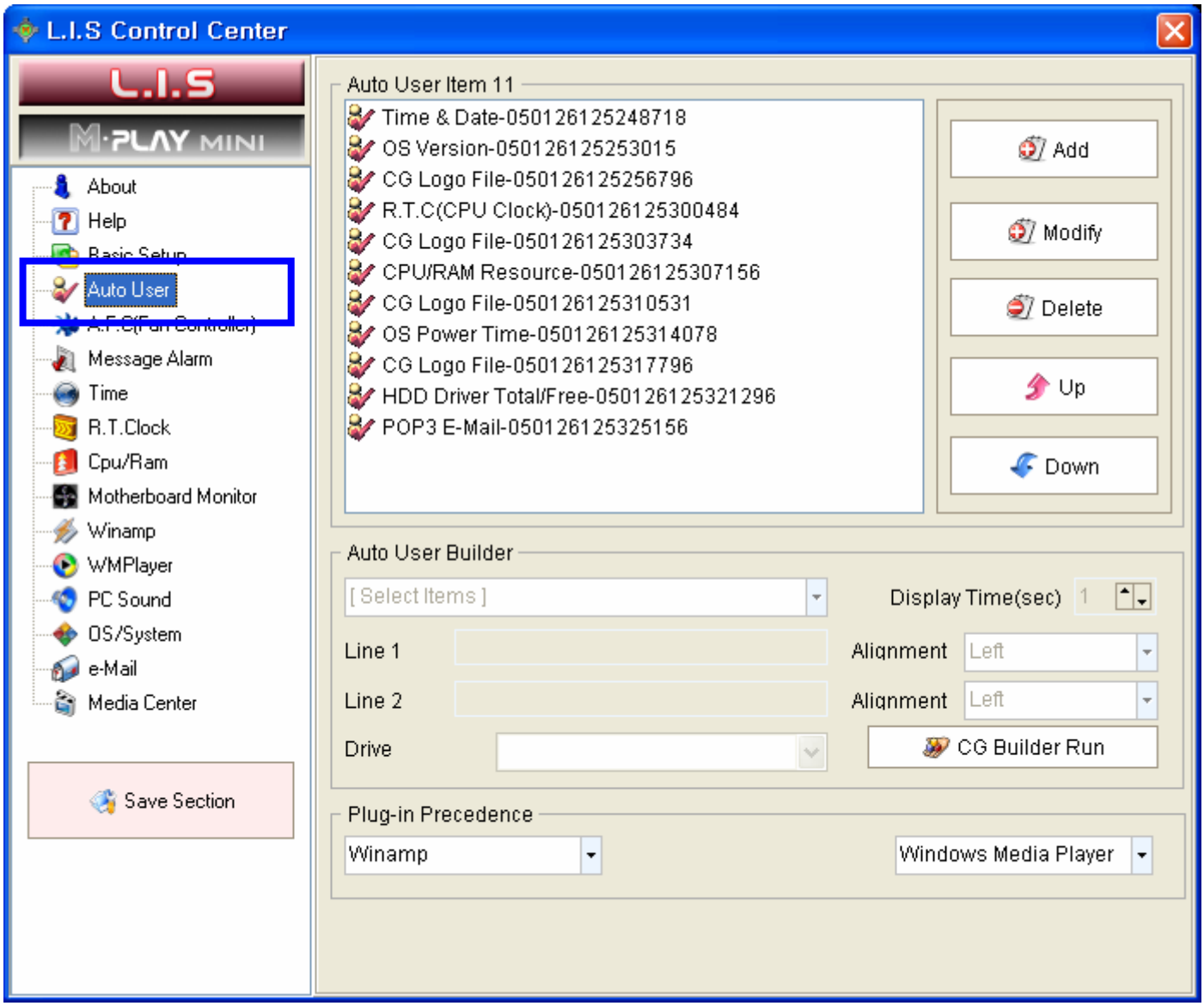
Auto User

Control Center

Auto user menu is the mode to treat users setting list and 'plug-in precedence' automatically. Except to see the specific information only, we recommend using this Auto user so as to look easy and various information.

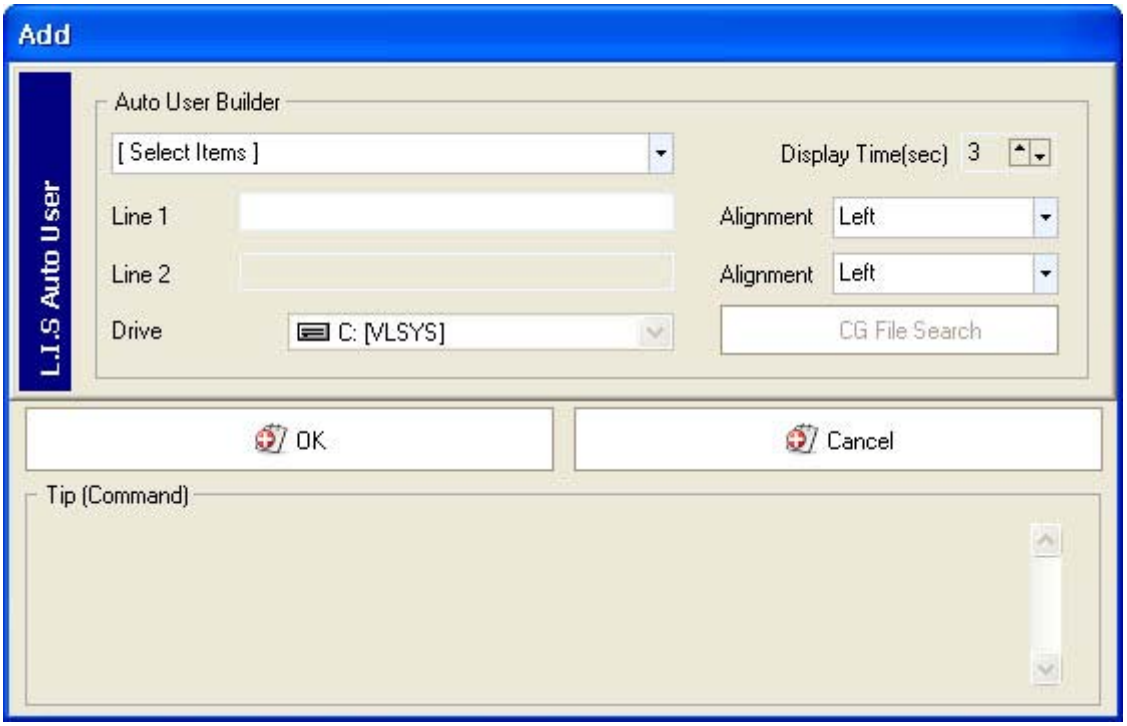
Key features of Auto user

- Auto sensing display of Windows XP Media Center Edition
  ; It can indicate the information on the L.I.S 2 by auto sensing performance of Media center.
- Auto playing Winamp, Windows Media Player plug-in analyzer
  ; It can indicate the analyzer on the L.I.S 2 by auto sensing performance of Winamp, Windows Media Player.
- Drawing output list at user's option
  ; You can use this to order items according to priority. These items show auto reversing on the L.I.S 2 screen and you can also control each display per second with this feature.



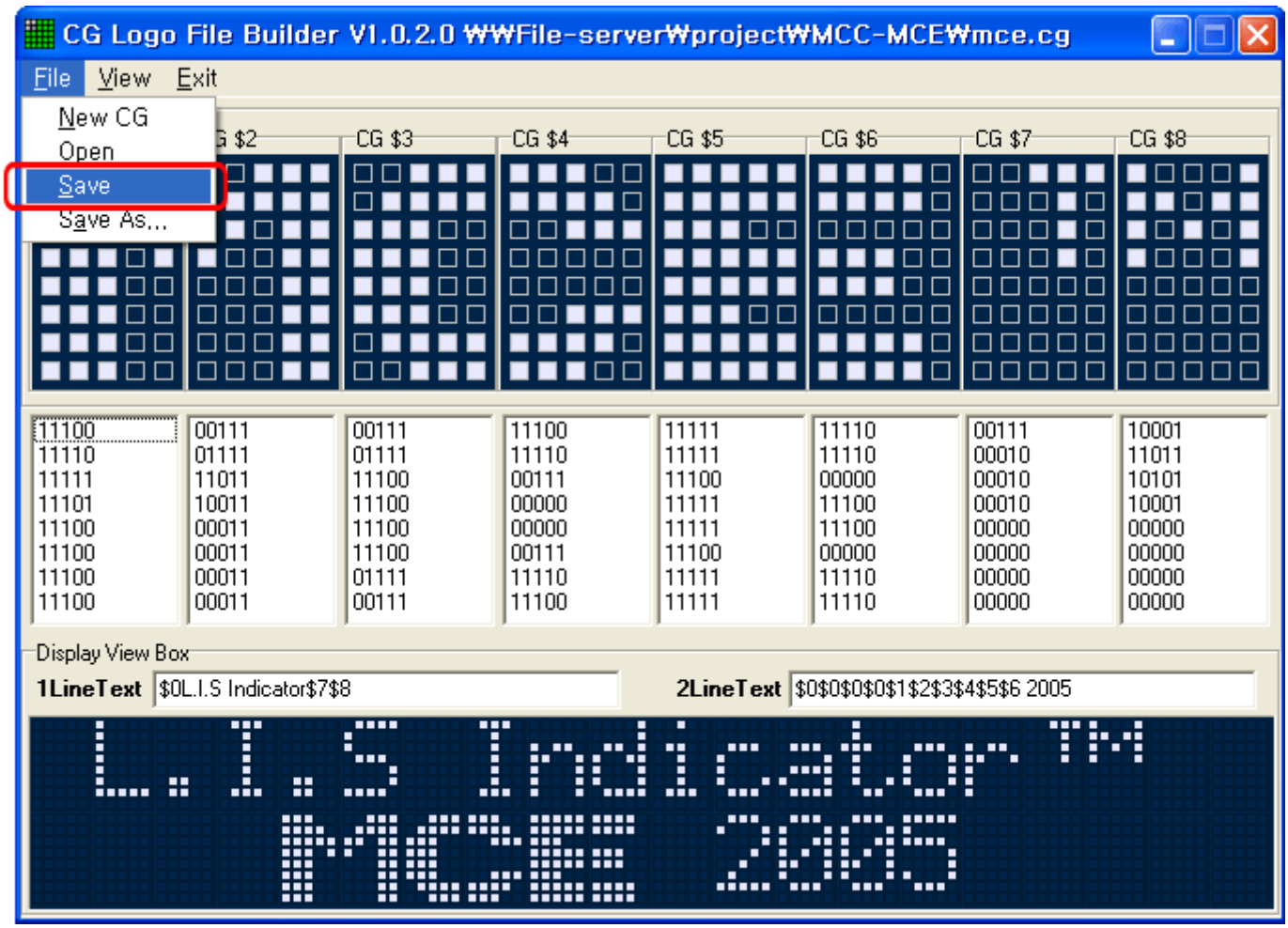
Push the 'Add' button. Then an item appears as Add window in the Table of Contents.

Go to 'Select items' and use this to select your desired items.



Adjust interval time (in seconds) of display.

If you want to change items, press the button 'Modify'. Go to 'CG builder run' and use this to select your desired items.



After modifying CG builder, you must click on 'Save' to save setting.

'Plug-in Precedence' can set up to display according to priority the graphic analyzer on the L.I.S 2 screen by automatically sensing when Winamp and Windows Media Player are being used.

In the case of the settings displayed above with “Plug-in Precedence”, if the user is playing Winamp or Windows Media Player, the graphic analyzer will be displayed. Also, priority has been given to Winamp if it is playing simultaneously with Windows Media Player.

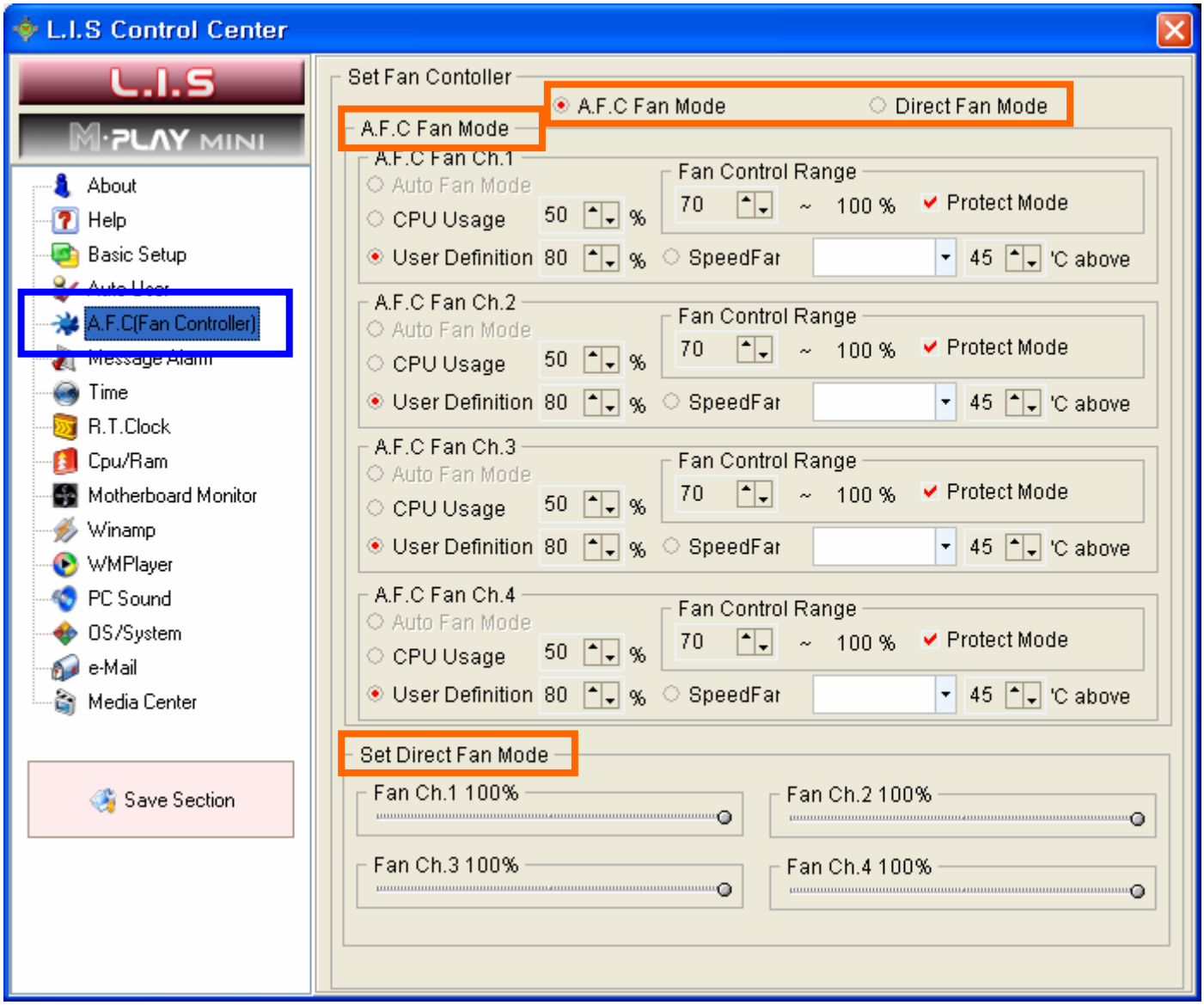
A.F.C (Fan Controller)

Control Center

This A.F.C (Automatic Fan Controller) has function to adjust auto fan controlling according to the CPU usage and system's temperature through SpeedFan/MBM. You can control to set each four channels, fan capacity is 10W (12V, 0.83A) on each channel.

A.F.C (Automatic Fan Controller) menu operate to **only L.I.S 2 user.**

The user can control each 4-Channel fan with the L.I.S Control Center.



A.F.C Fan Mode : This A.F.C (Fan Controller) operates only at the setting chosen by the user.

Direct Fan Mode : User can control the fan speed by moving the slide bar manually.

1. A.F.C Fan Mode

- **Control range** : You can set the lowest speed as control range. If you check this Protect Mode option, the safety range will set over 50%.
- **CPU usage** : This control fan speed based on CPU usage.
- **User Definition** : User can set the fan speed manually. Please keep in mind that the fans at an excessively low level cause to damage to your system or unstable condition. This setting is different from Direct Fan Mode.
- **SpeedFan/MBM** : User who is installed SpeedFan/MBM can control the fan based on temperature sensing from SpeedFan/MBM.

2. Set Direct fan mode

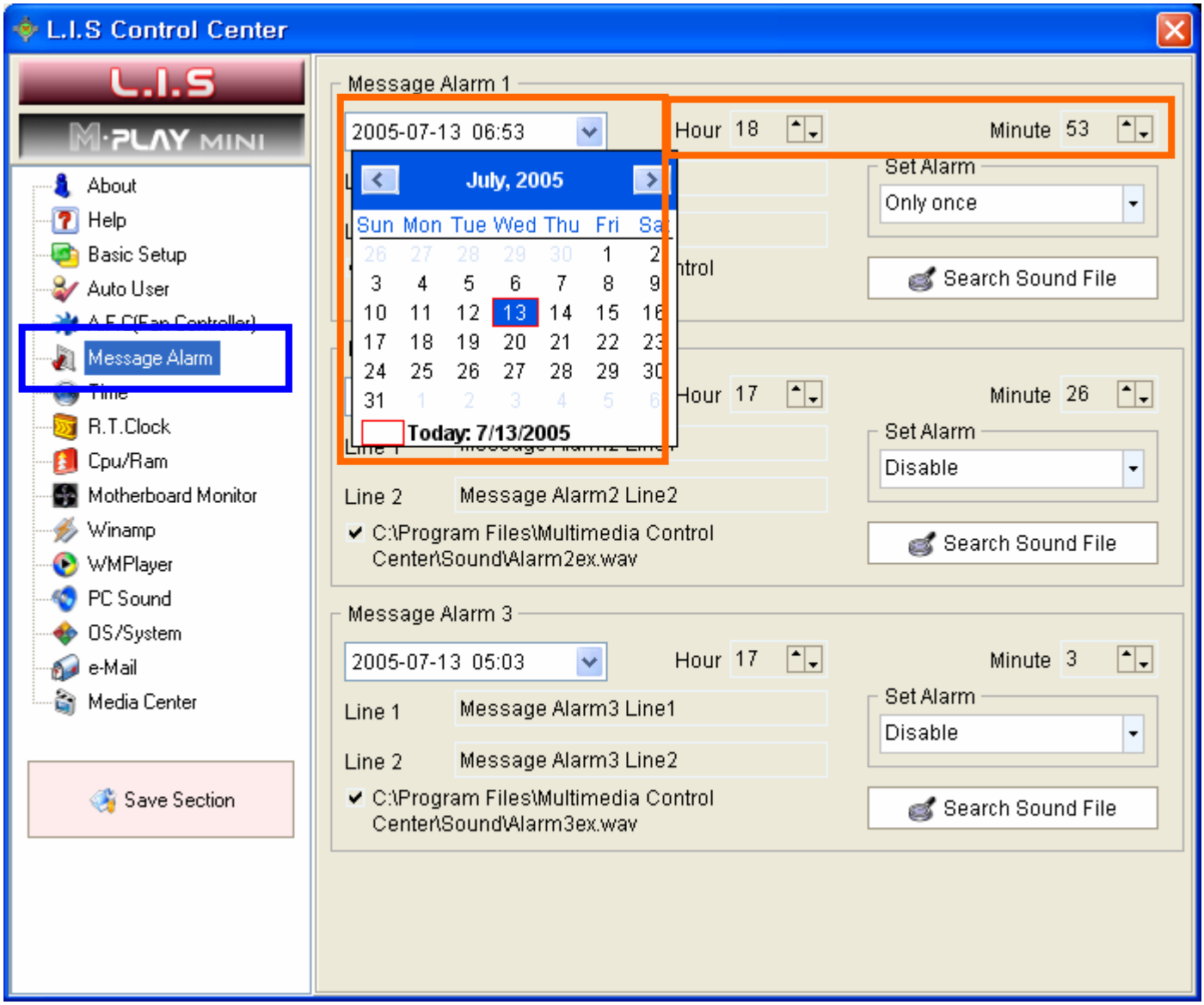
In Direct fan menu, user can manually adjust the fan speed in real-time using the slide bar.

This is able to turn to 'Direct fan mode' directly by using 'Shift +F3' key. It's possible for user to set the range of control for each channel.

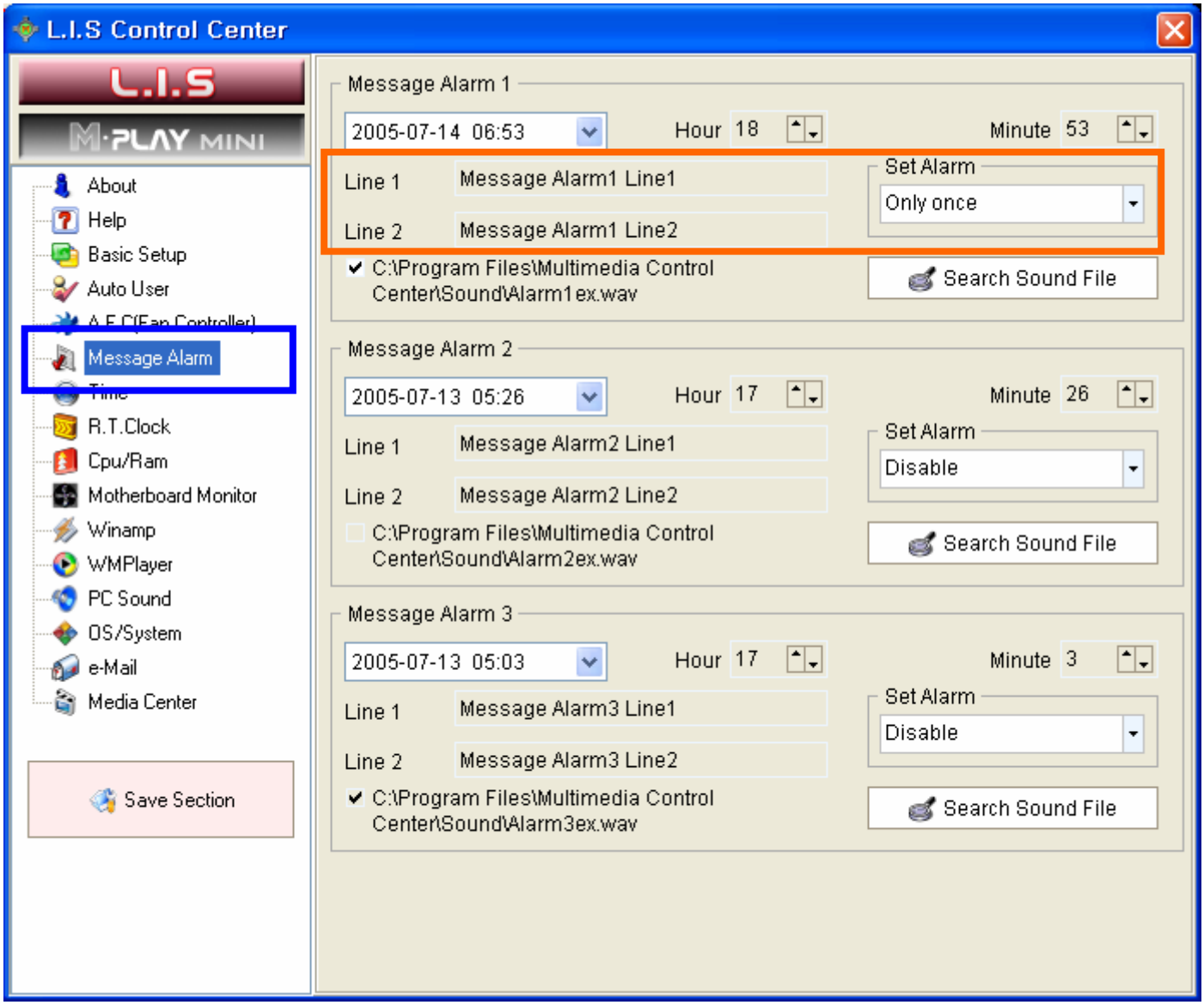
Message Alarm

Control Center

The alarm can be set for an appointed date and time. Also, the user can choose the sound it makes.

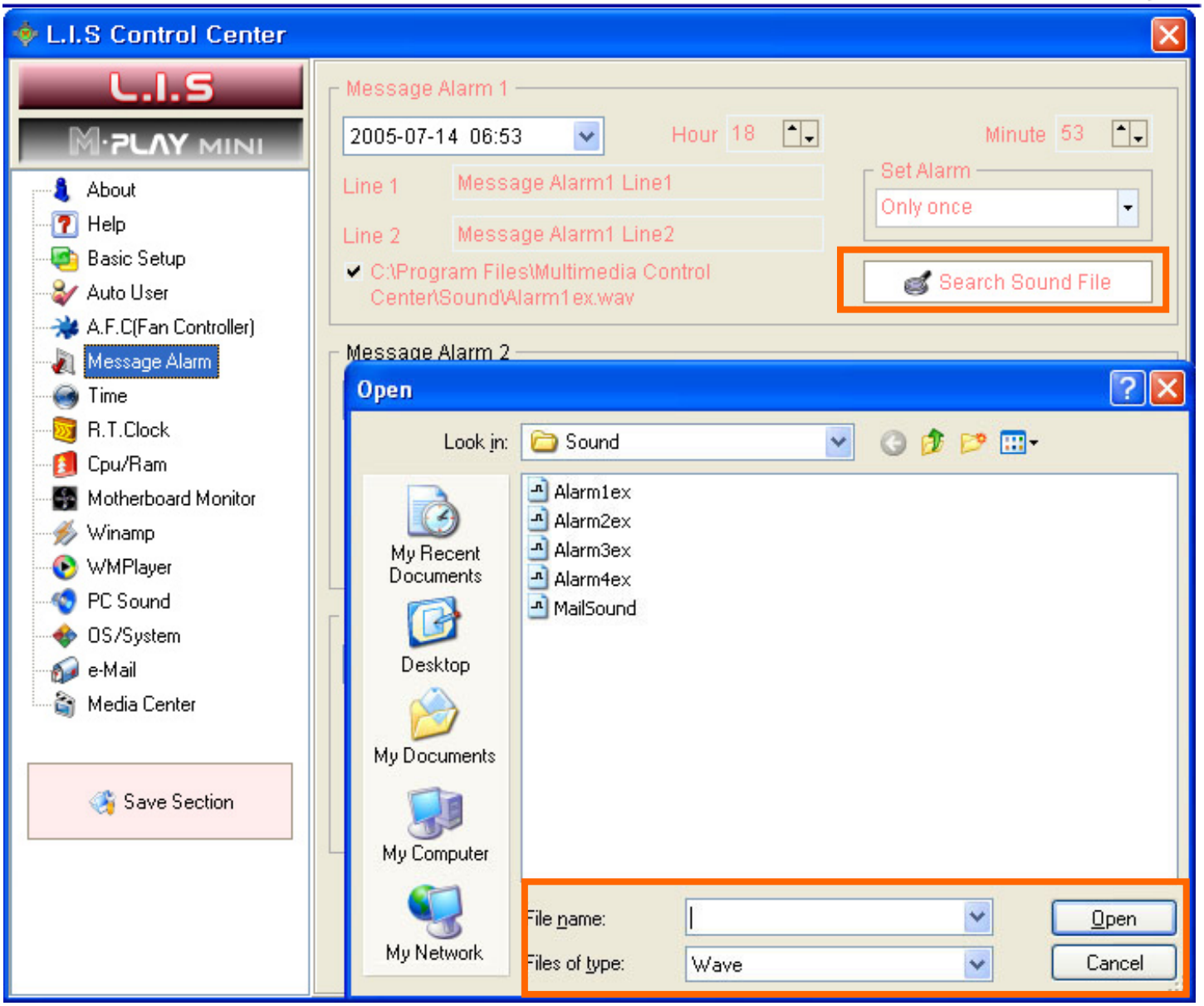


Select the date that you want the alarm to go off. Then select the hour and minute of the day.



Add the sentences which you want displayed on the L.I.S 2 screen.

Set Alarm - You can set the message alarm's interval to a single instance or every day.



When the alarm goes off, check this option if you want the message to be accompanied by a kind of sound.

Push the 'Search Sound File' button and set up the sound file you want to accompany the alarm.

Time

Control Center

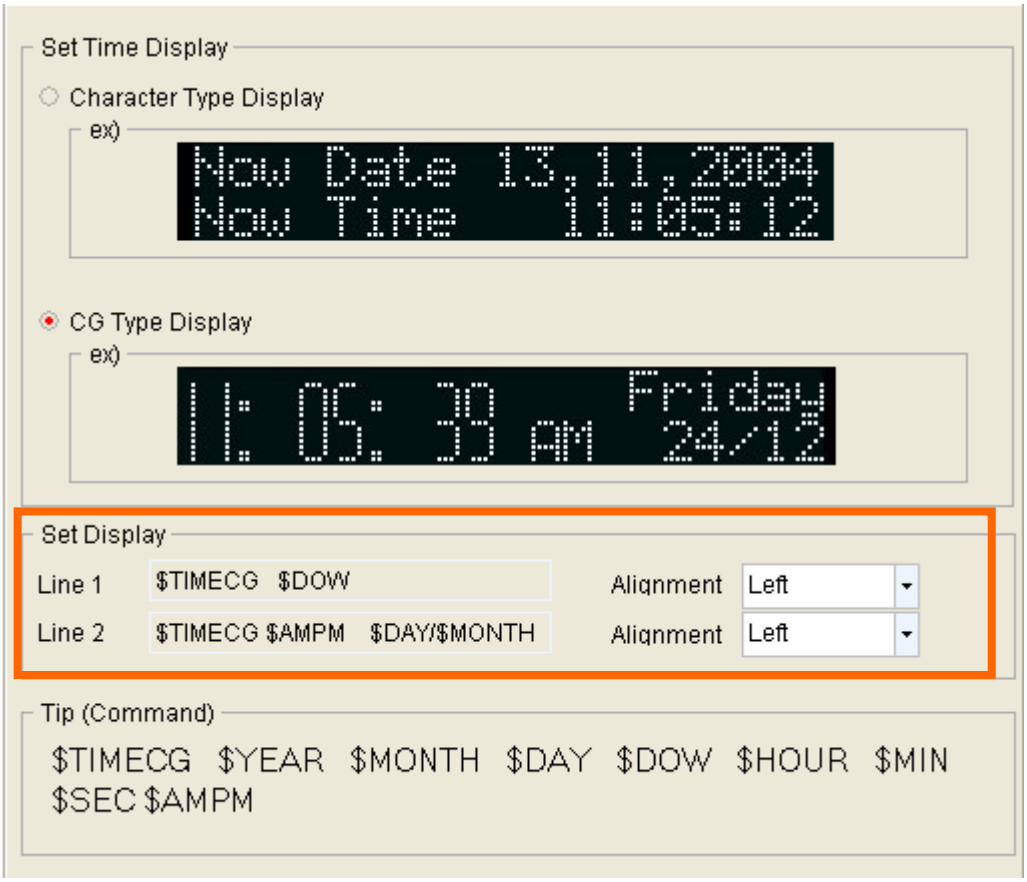
This is for selecting the current date and time that you want displayed on the L.I.S 2 screen.

Set time display : It shows the visual type.

Set display : User can change the visual type by inputting the below Tip or letter manually.

Example 1

Let us explain using the following example.



Add acouple explanatory letter and command.

You can change Time CG Display same as above method.

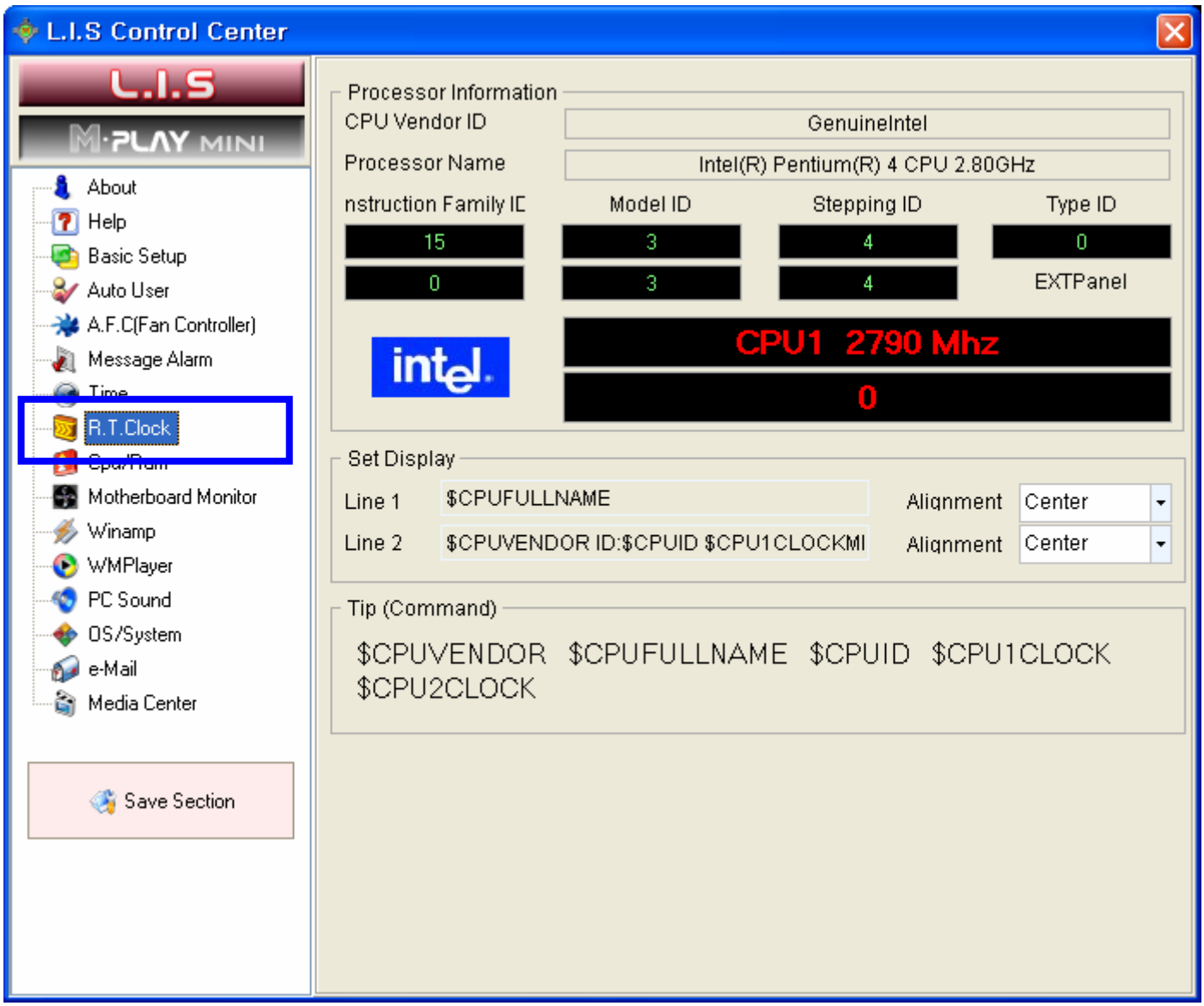
Command :

$TIMECG : Display time as the large digit type of two line
$YEAR : Year
$MONTH : Month
$DAY : Day
$DOW : A day of week
$HOUR : Hour
$MIN : Minute
$SEC : Second
$AMPM : A.M, P.M

R.T.Clock

Control Center

RTC displays the CPU's real time clock down to the second decimal at any given moment. Also it can support each R.T.Clock in the case of a Hyper-Threading or dual CPU system.



Set display : User can output the display type by using command of Tip.

Command :

$CPUVENDOR : CPU Manufacturer
$CPUFULLNAME : CPU full name
$CPUID : CPU ID
$CPU1CLOCK : CPU1 clock frequency
$CPU2CLOCK : CPU2 clock frequency

Example 1

Display Text (Single CPU)

$CPUVENDOR $CPUFULLNAME

ID:$CPUID $CPU1CLOCKMhz

Example 2

Display Text

(Dual or Hyper-Threading CPU)

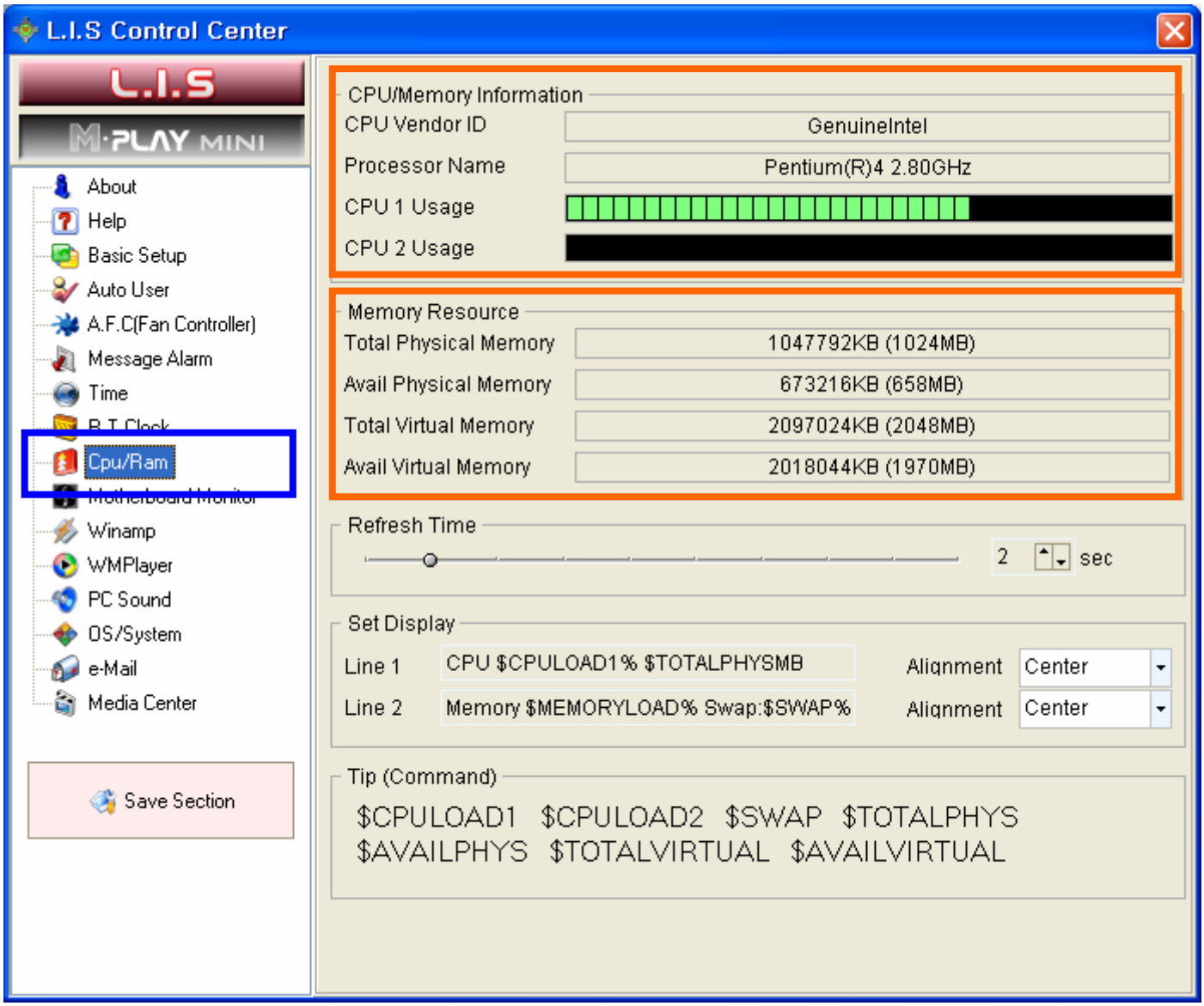
$CPUVENDOR $CPUFULLNAME

$CPU1CLOCKMhz/$CPU2CLOCKMhz

Cpu / Ram

Control Center

The CPU/ RAM option shows the usage rate of the CPU and Memory.



Set display : User can output the display type by using command of Tip.

Command :

$CPULOAD1 : CPU1 usage
$CPULOAD2 : CPU2 usage
$SWAP : Amount of swapping in HDD
$TOTALPHYS : Total physical memory
$AVAILPHYS : Available physical memory
$TOTALVIRTUAL : Total virtual memory
$AVAILVIRTUAL : Available virture memory
$MEMORYLOAD : Memory usage

Example 1

Display Text (Single CPU)

CPU Load $CPULOAD1%

Ram: $RAM% Swap: $SWAP%

Example 2

Display Text (Dual or Hyper-Threading CPU)

CPU $CPULOAD1% $CPULOAD2%

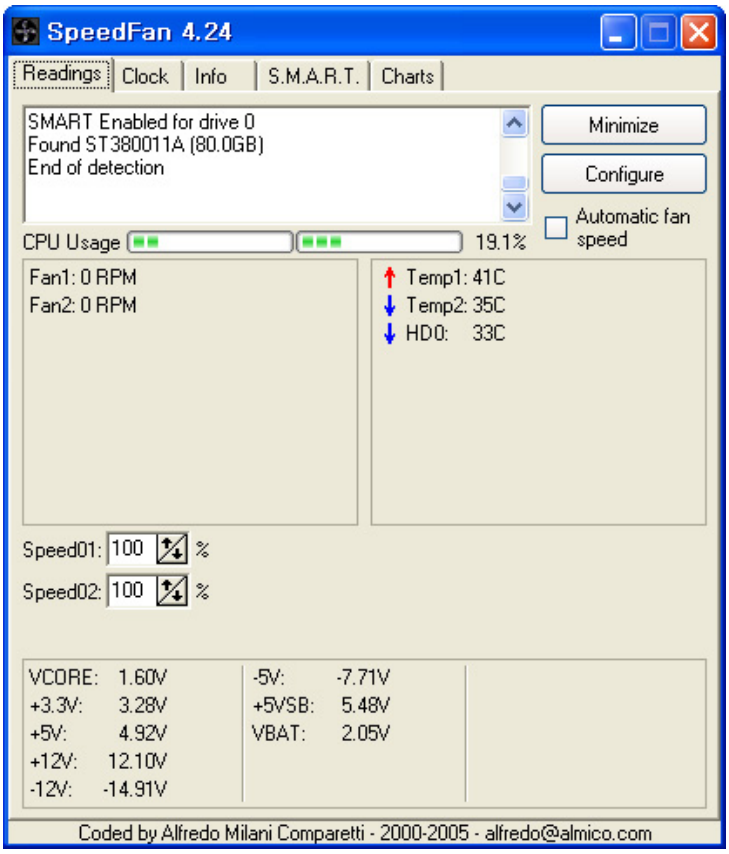
Ram: $RAM% Swap: $SWAP%

Motherboard Monitor

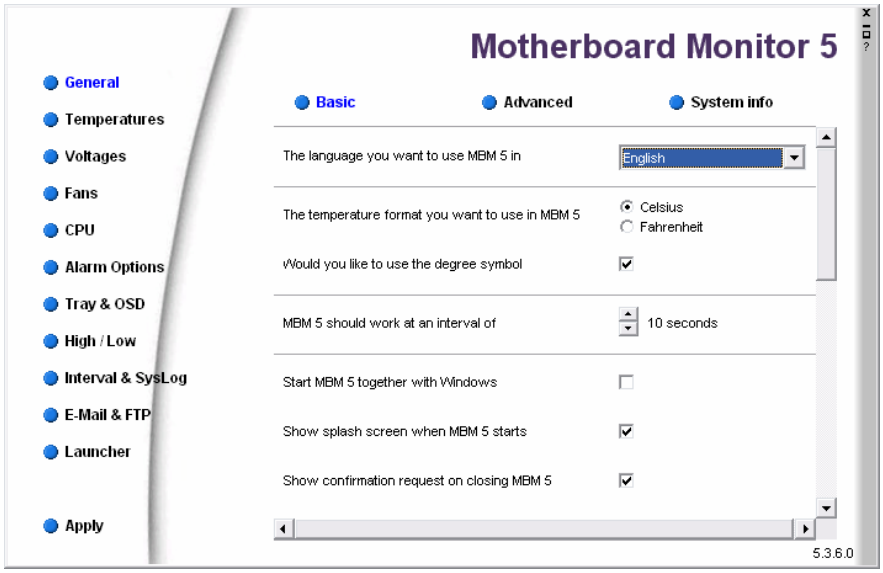
Control Center

If you install the SpeedFan or MBM, these options show the shared data. So the A.F.C can control the fan automatically with this feature.

In order to use this function, SpeedFan or MBM should be installed, and you should test it with this function. If you want to view the website shown above for more information, go to

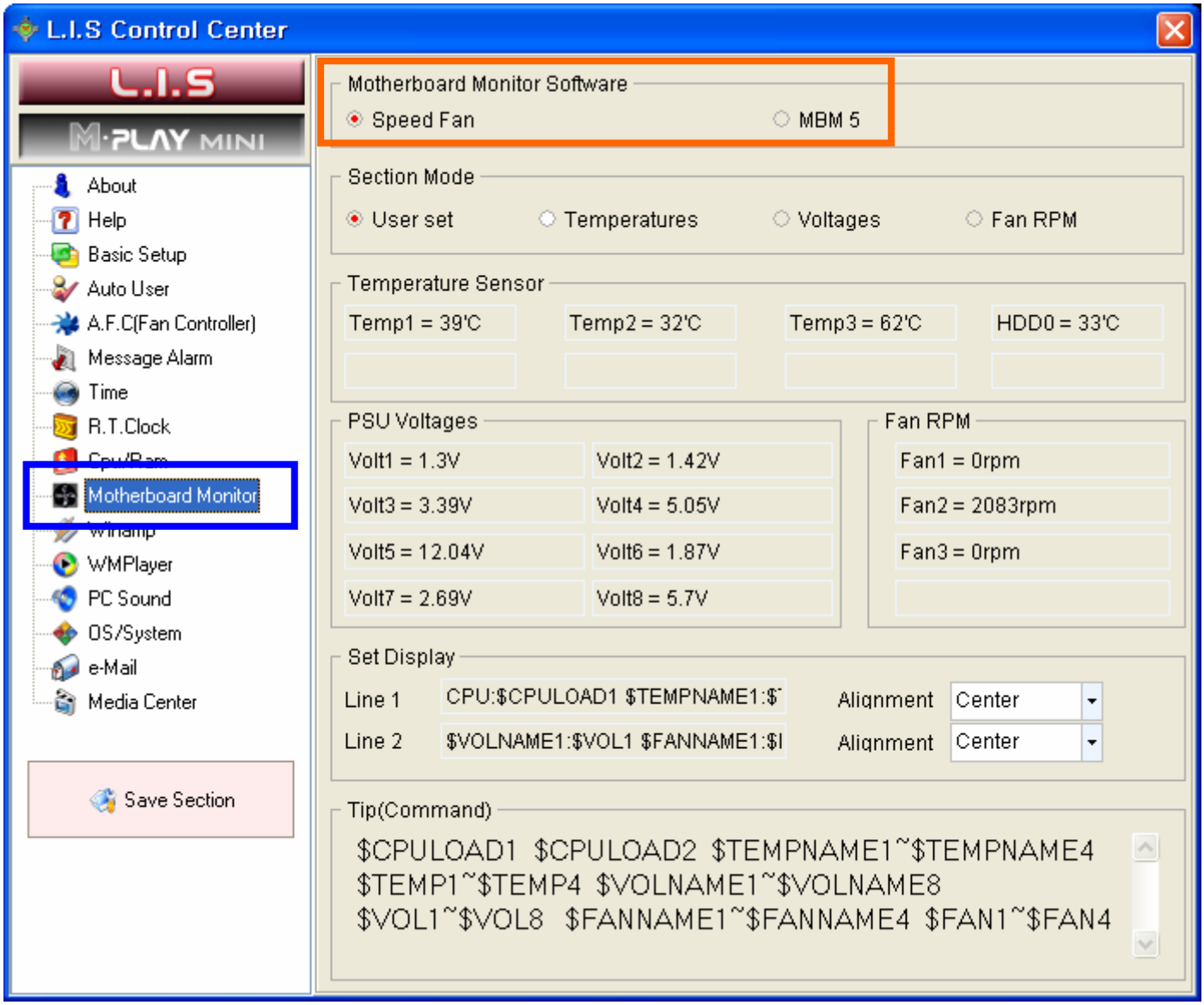


SpeedFan：http://www.speedfan.net



MBM：http://mbm.livewiredev.com

! Please note that user cannot use this function for the motherboard that does not support Speedfan & MBM.



The user can select the type of data he wants received from MBM or SpeedFan.

If MBM or SpeedFan installed properly, voltage and temperature will be displayed on the L.I.S 2 screen.

Command :

$CPULOAD1 : Usage of CPU1

$CPULOAD2 : Usage of CPU2

$TEMPNAME1~4 : Name of thermal sensor name 1~4

$TEMP1~4 : Value of thermal sensor 1~4

$VOLNAME1~8 : Name of voltage 1~4

$VOL1~8 : Value of voltage 1~4

$FANNAME1~4 : Name of fan 1~4

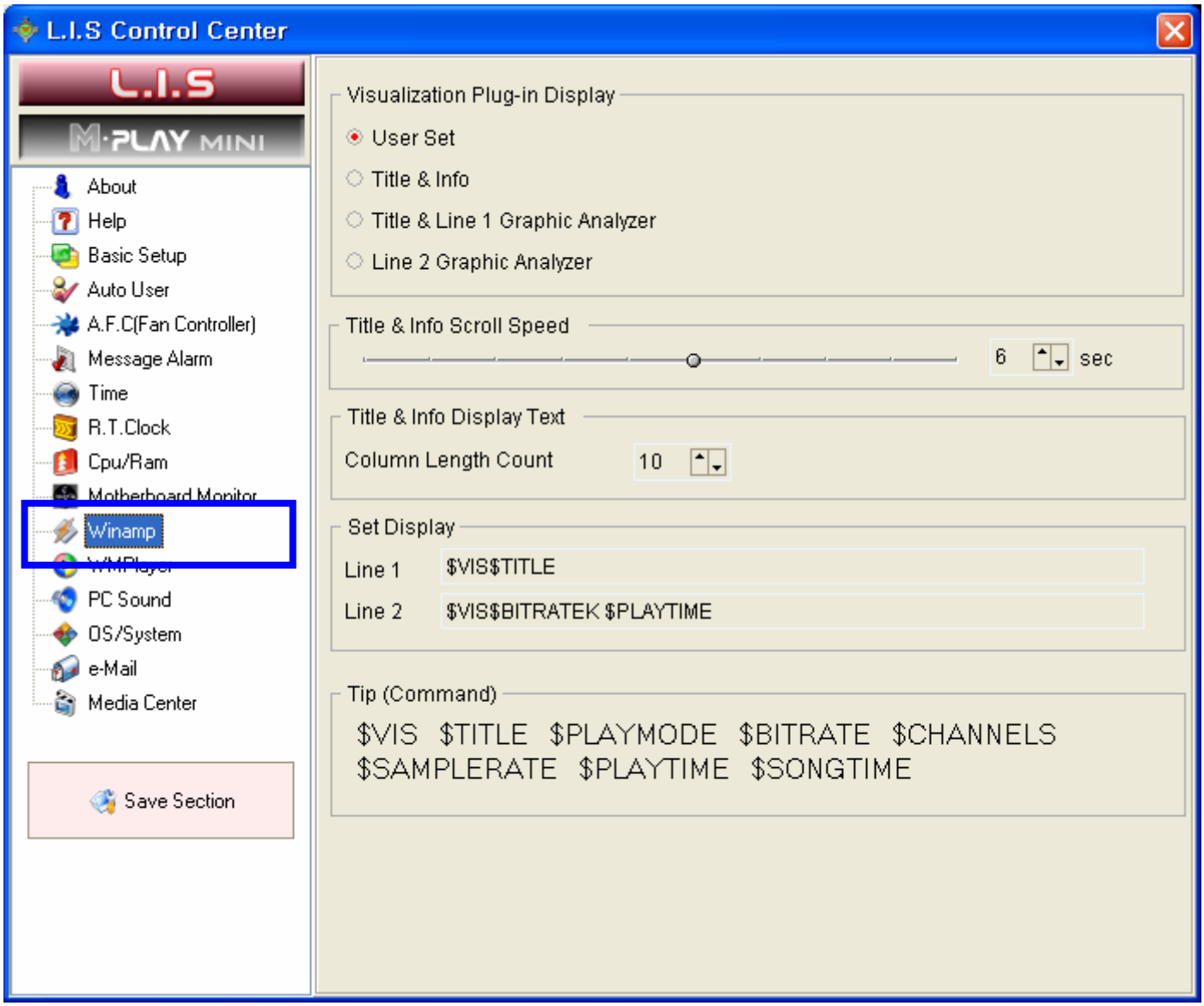
$FAN1~4 : Value of fan 1~4

Winamp

Control Center

The graphic analyzer will be displayed on the L.I.S 2 screens if the Winamp plug-in is installed.

It supports the 2.x and 5.x versions of Winamp.



Visualization Plug-in display

: This is for selecting the type of analyzer that you want displayed on the L.I.S 2 screen.

User set : User can set the command and some letter on the Display text directly.

Title & Info : This is not for analyzer, shows information about the title, channel, bit rate, playing time.

Title & Line 1 Graphic Analyzer : It's scrolled the title on the head of L.I.S 2 screen and displayed 20 bands analyzer of 20x1 on the lower line.

Line 2 Graphic Analyzer : 20 bands analyzer display more bigger 20x2.

Title & Info view scroll speed : This is for scrolling speed of the title and play.

Plug-in installation

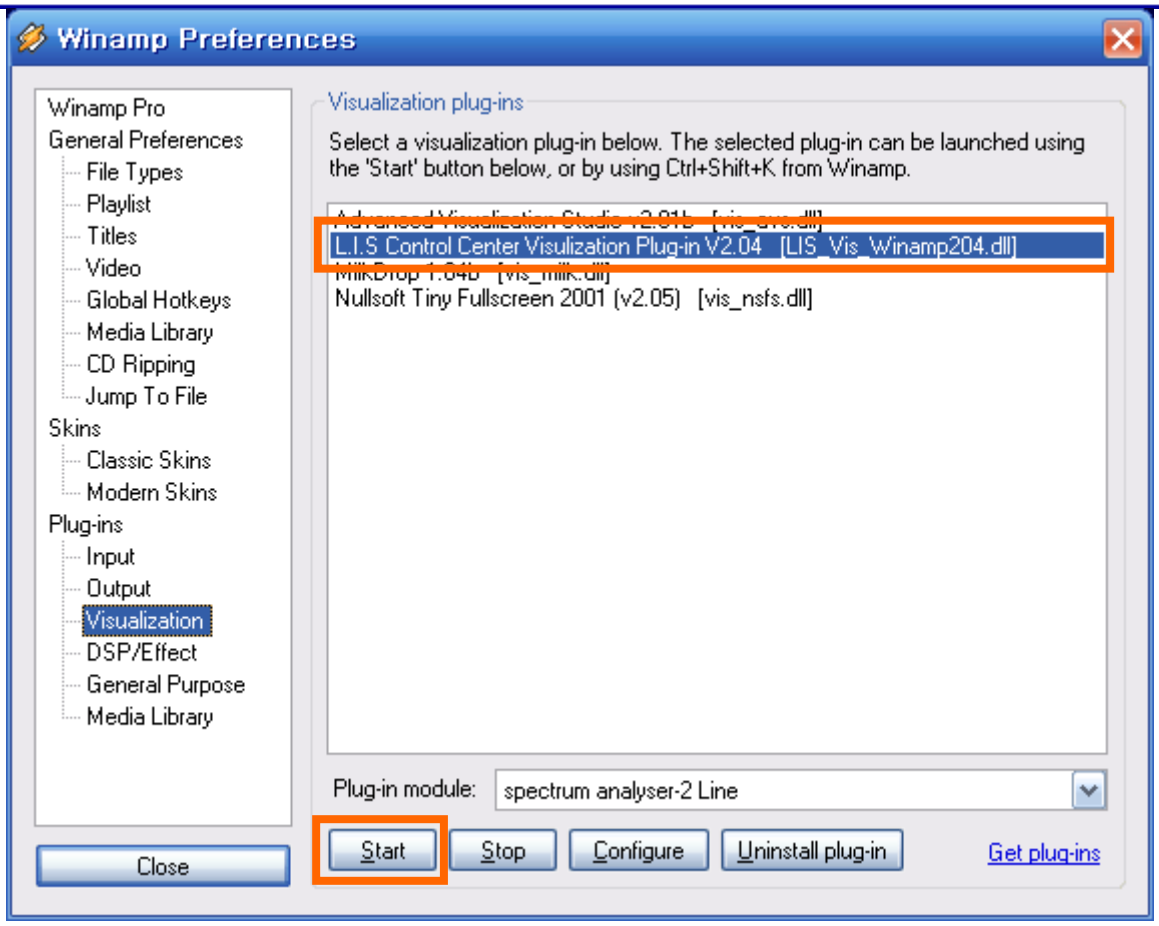
After installing ControlCenter, this will install the plug-in automatically. But if you install ControlCenterand subsequently install Winamp, then you should manually install the plug-in.

☺ Manual installation of plug-in

The LIS_Vis_Winamp204.dll is found in the plug-in folder (C:\Program Files\Multimedia Control Center\Plugins). In order to make a path for Control Center, you will need to copy it to the following plug-in folder: (C:\Program Files\Winamp\Plugins).

Once you select the visualization plug-in that is now installed, right click the mouse button when the pointer is located on Winamp.

Now select 'Visualization -> Select plug-in...'.



After selecting L.I.S plug-in, push the 'Start' button. Now the graphic analyzer will work. After doing this, close the window.

If the L.I.S plug-in is installed properly, it displays the graphic analyzer on the Control Center.

Command :

$VIS : Analyzer

$TITLE : Music title

$PLAYMODE : Play mode

$BITRATE : Information bit rate of playing music

$CHANNELS : Channel information

$SAMPLERATE : Information sample rate of playing music

$PLAYTIME : Current time of playing music

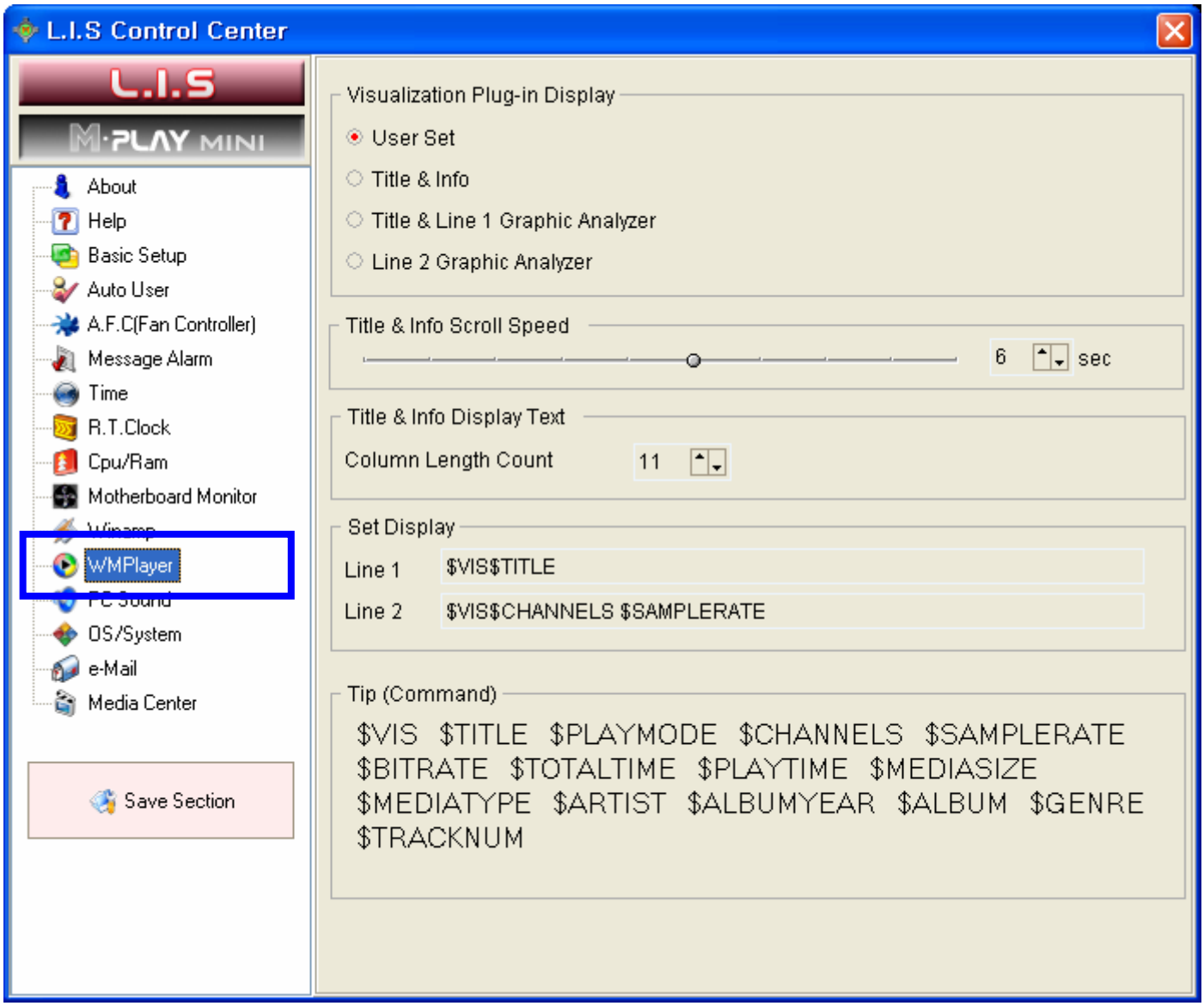
$SONGTIME : Total time of playing music

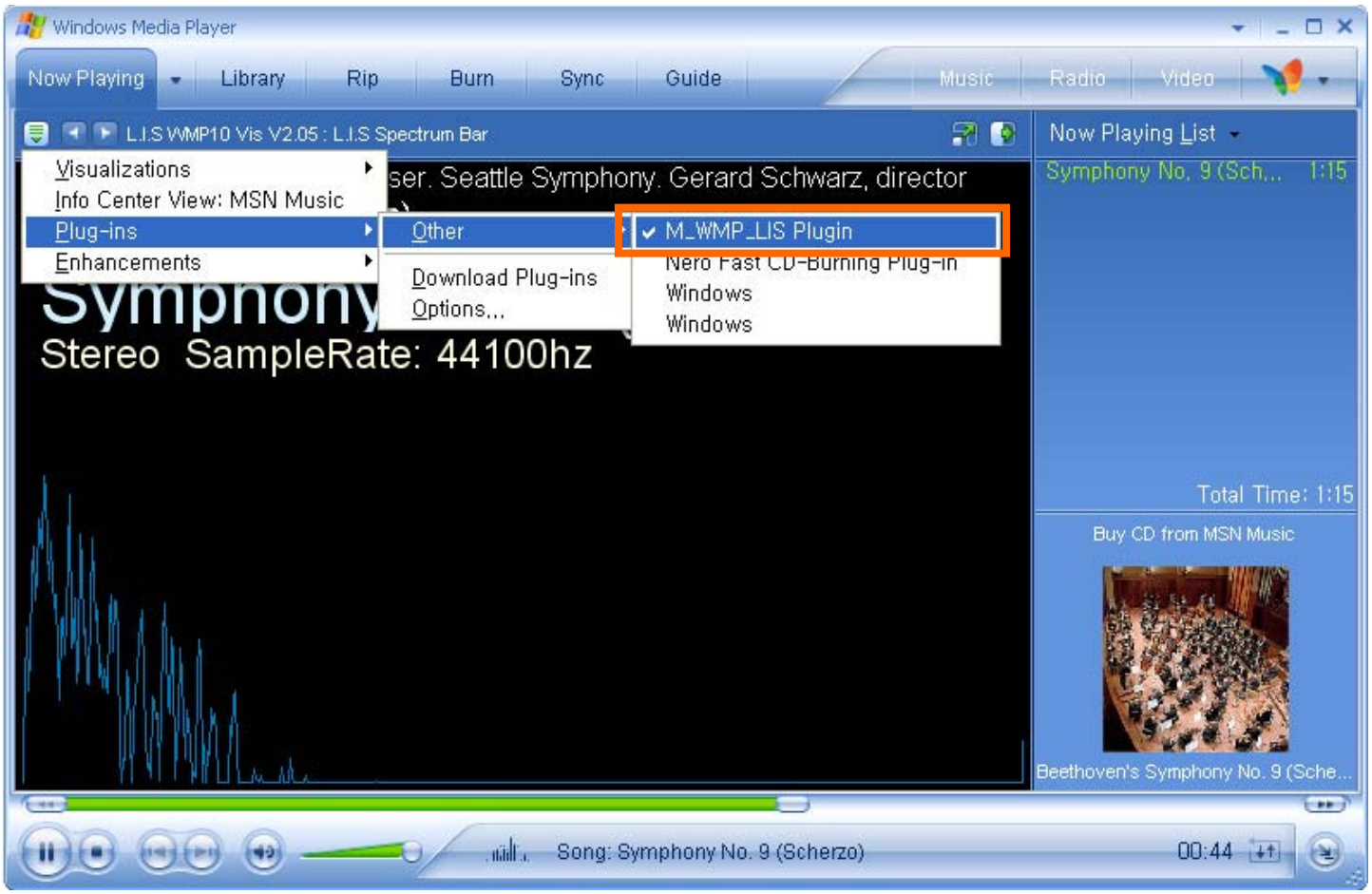
Windows Media Player

Control Center

Through the visualization plug-in for Windows Media Player can display analyzer on the L.I.S 2 screen.

Plug-in can automatically be installed when it installs the Control Center, just select the WMP_LIS plug-in at the Media player.





If you want the graphic analyzer to be displayed on the L.I.S 2 screen automatically when Windows Media Player is sensed, please refer to the Auto User menu.

Command :

$VIS : Analyzer
$TITLE : Music title
$PLAYMODE : Play mode
$CHANNELS : Channel information
$SAMPLERATE : Information sample rate of playing music
$TOTALTIME : Toal time of media
$PLAYTIME : Play time of media
$SIZE : File size of media
$TYPE : Media format type (ex: MP3/AVI...)
$ARTIST : Media artist
$ALBUM : Album title
$GENRE : Media category
$RELEASE : Album releasing year
$TRACNUM : Album track number

PC Sound

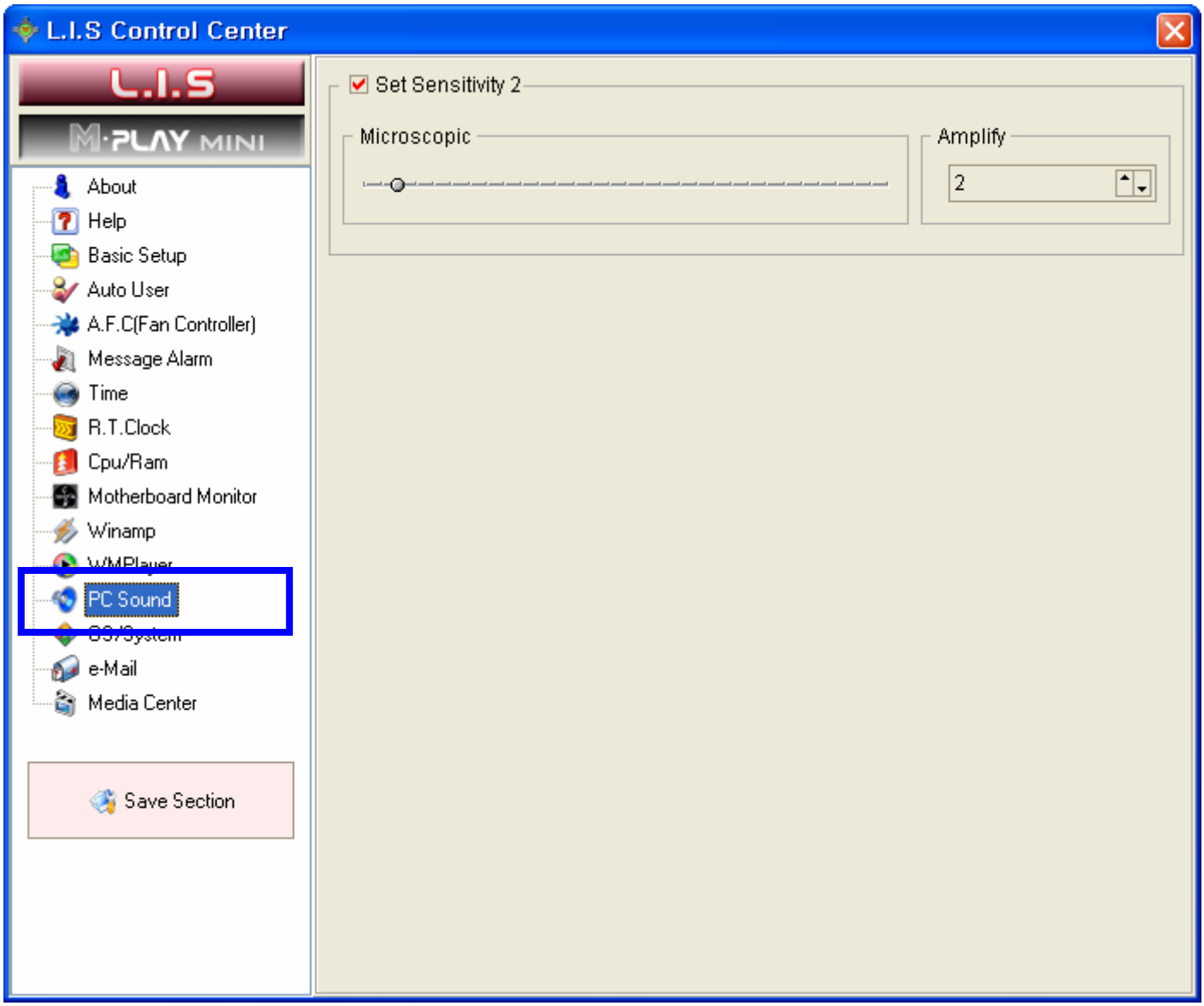
Control Center

"PC Sound" displays a graphic analyzer to accompany with all the sound of PC.

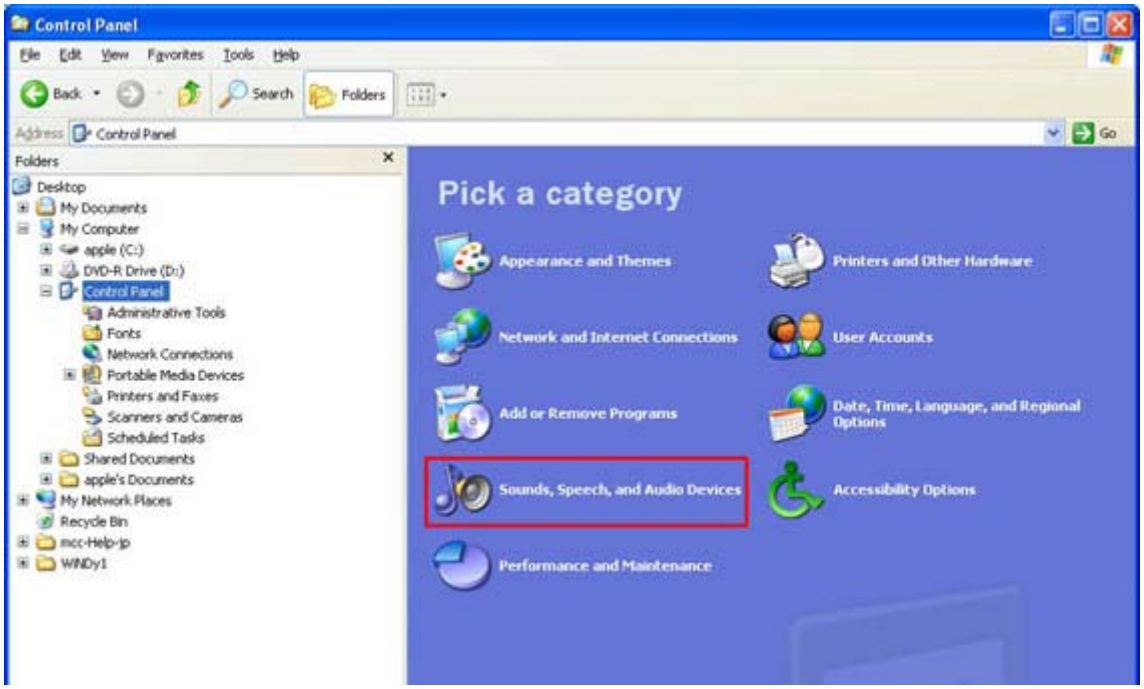
For example, on listening music, playing game, it can show the visualization and also it displays the visualization at the other music and movie player, Winamp or Windows Media Player as well.

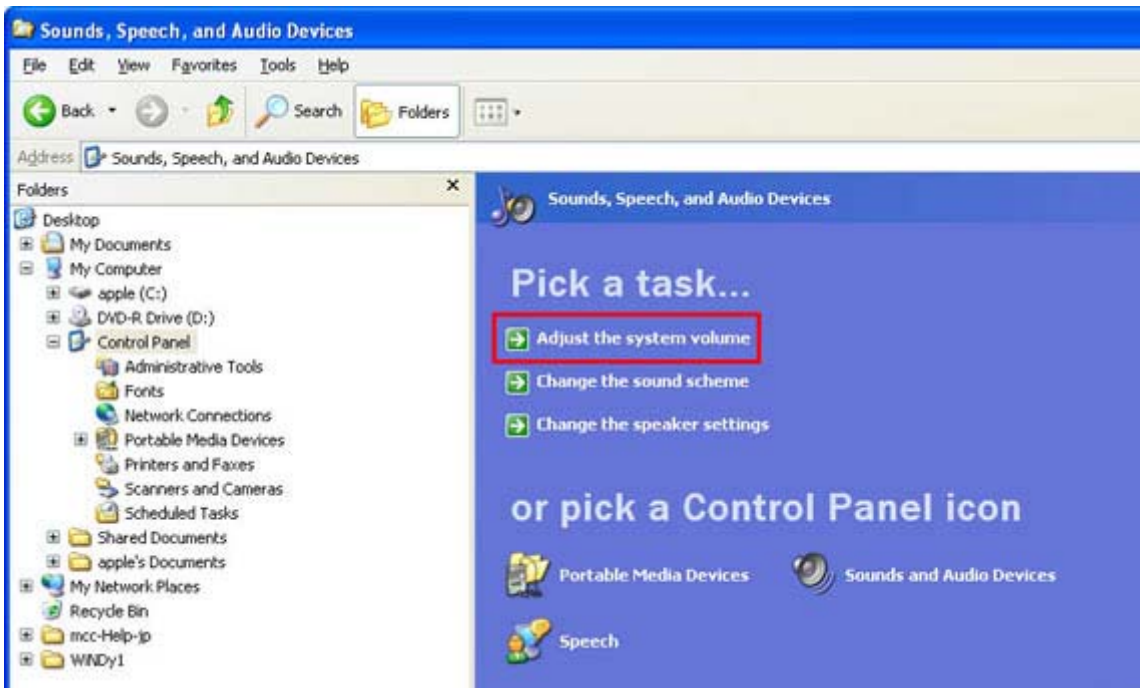
Microscopic : This can control delicately the sound's sensitivity.

Level Control : It's level up for analyzer. As user set the low condition level, this can be adjusted the low level, so it doesn't amplify its actual output's volume

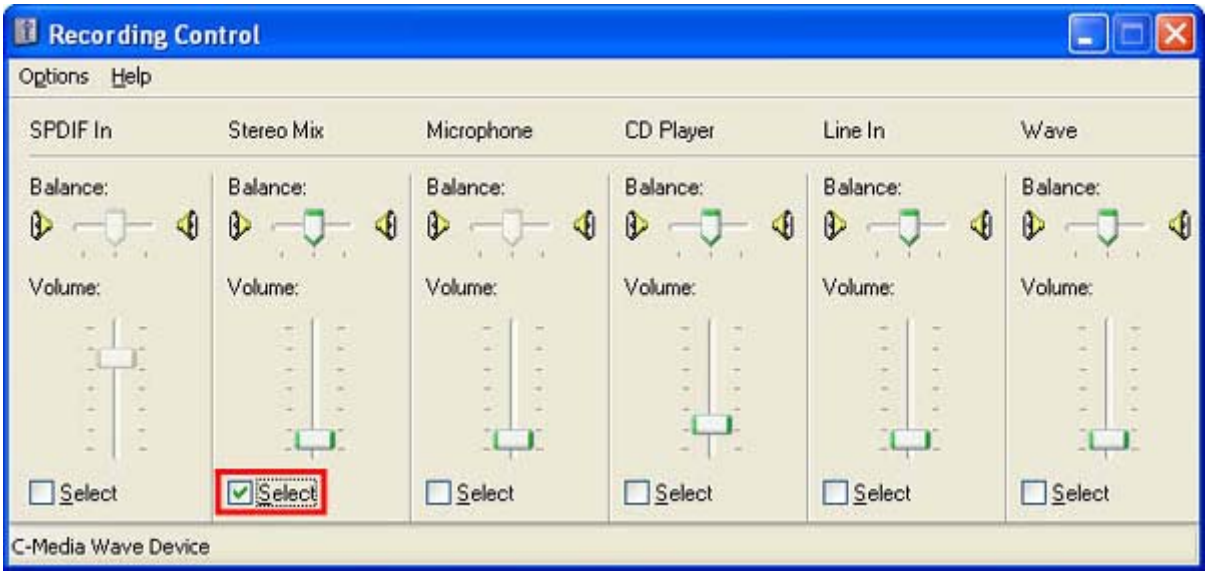


For using "PC Sound" function, it needs to set hereunder sound device.



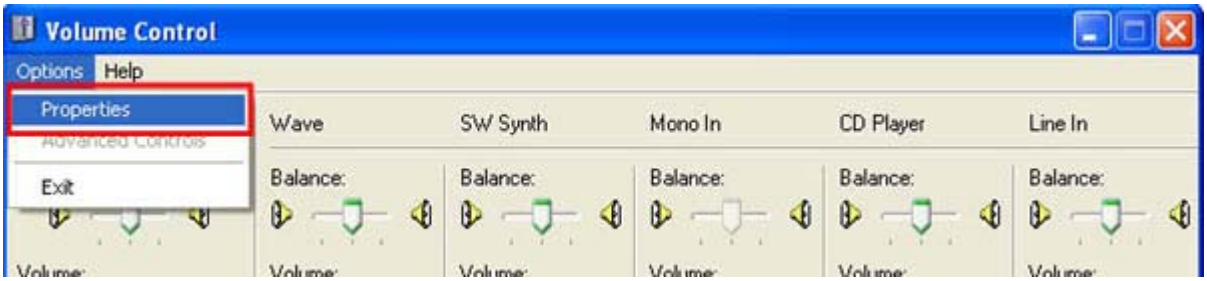


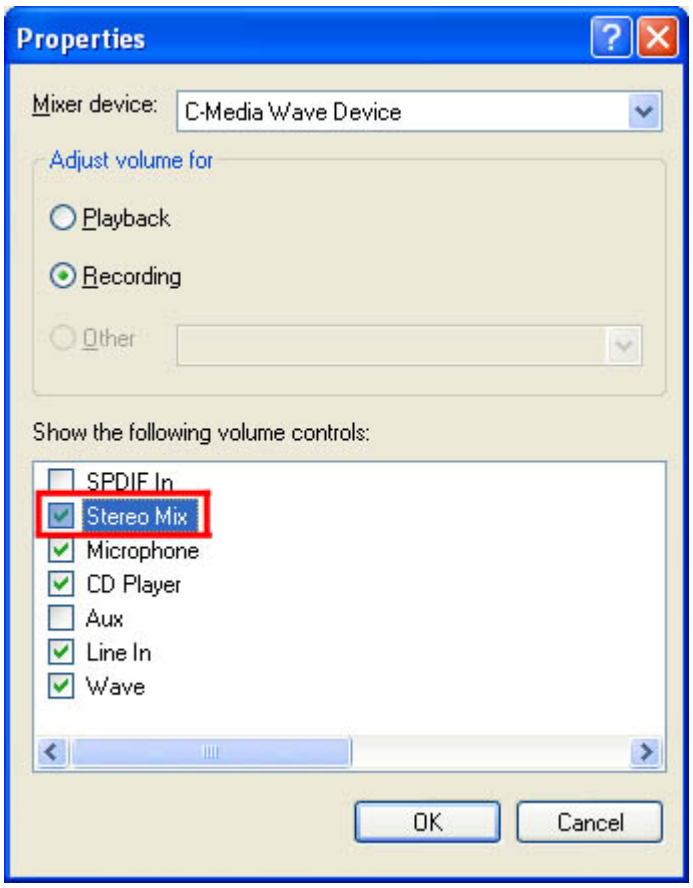
Firstly open the sound, voice and audio device (WIN2K: Sound and Multimedia) in the control panel, then click system volume control (WIN2K: Audio-Recording-Volume).



Check the “Stereo Mix”.

If you can’t find “Stereo Mix”, select “Option” – “Attribution” and then add or delete the menu of recording control.

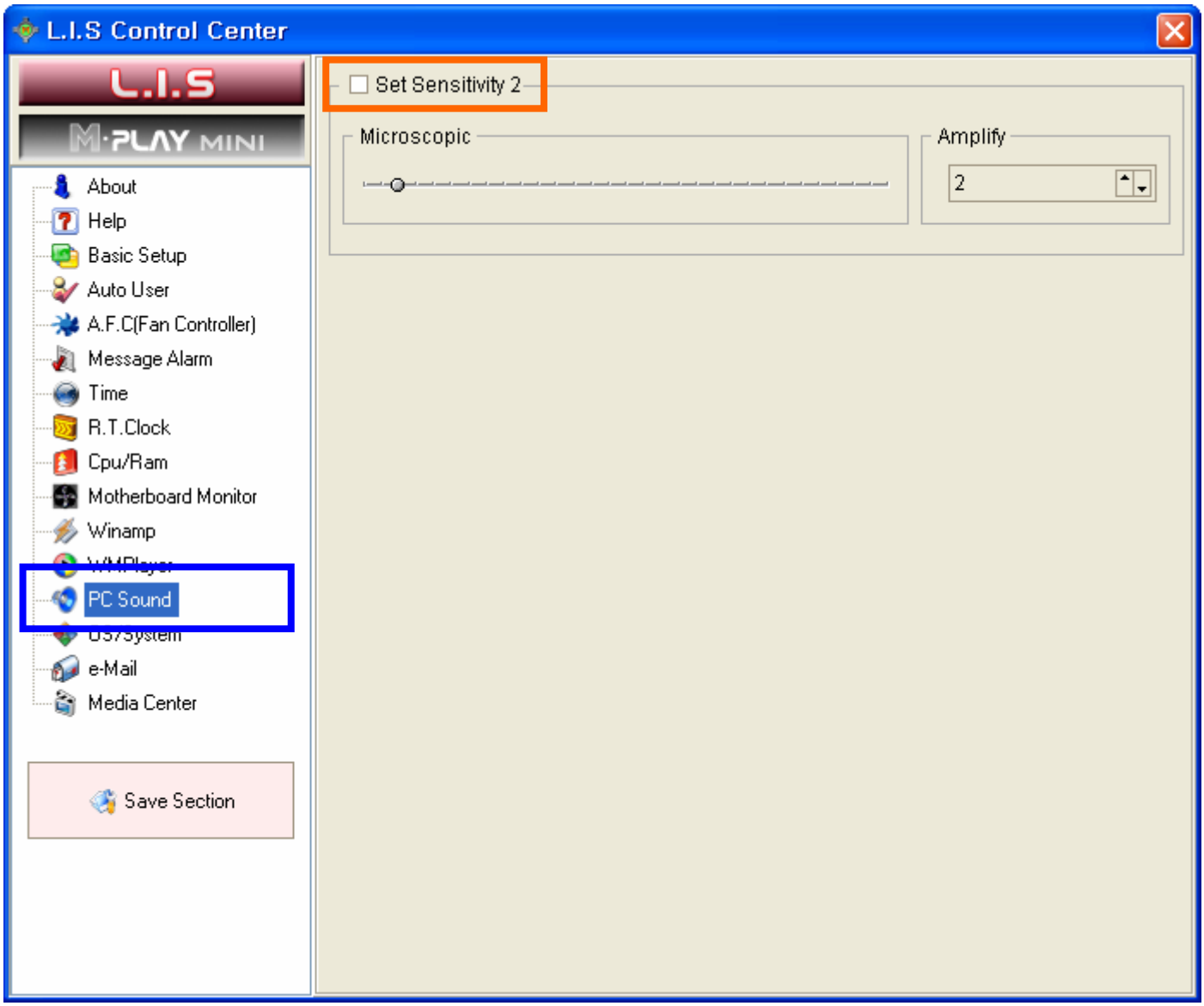




Note : Depending on user’s sound card type, it may indicate the other name instead of “Stereo Mix”.

That is, **What U Hear / Mixed Output / Post-Mix / Recording Balance / Loop Back / Stereo Output / Stereo Out / Sum**.

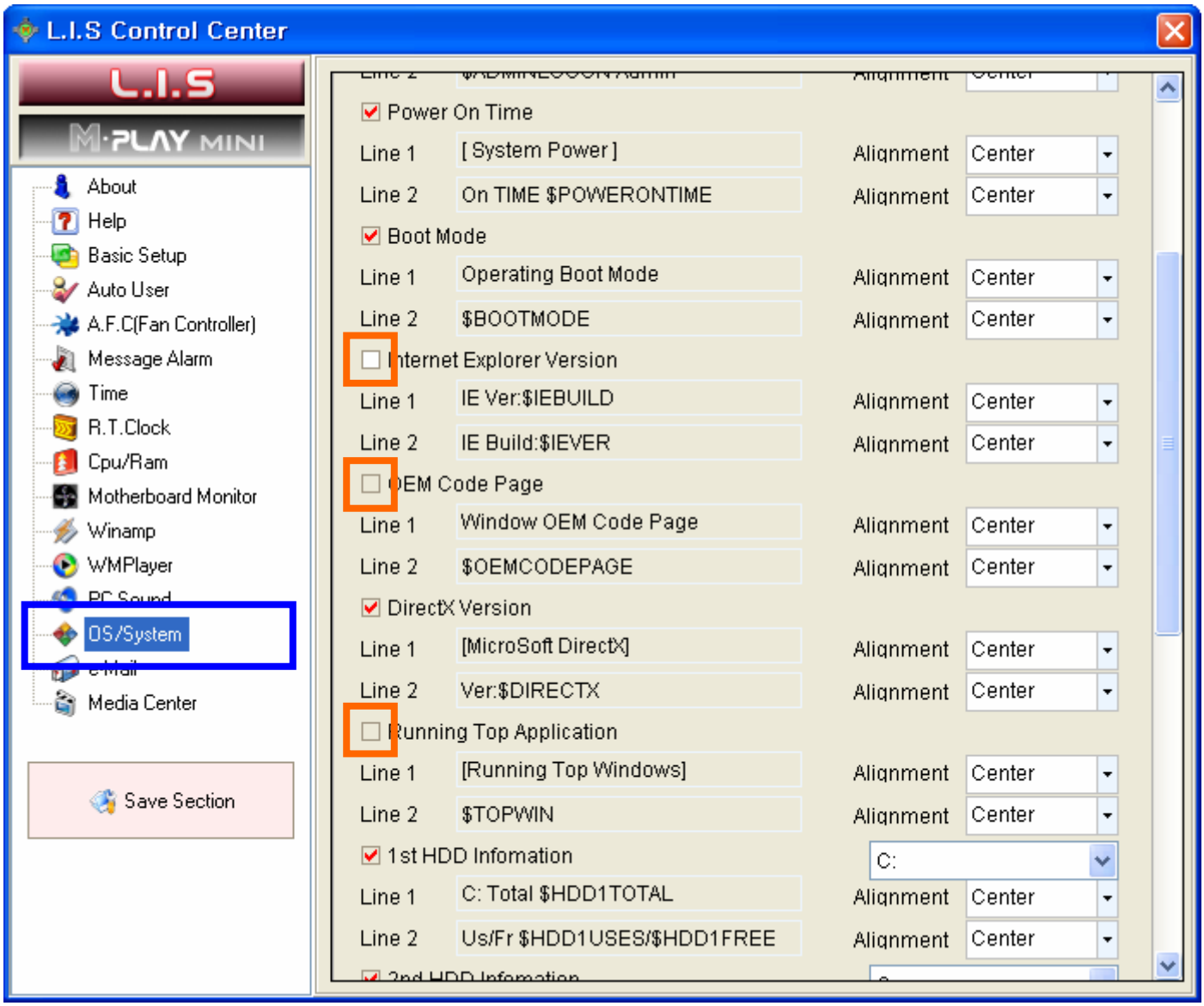
Caution : For the some of sound card, it can't support "PC Sound". In this case, use after checking cancel on the 'Sensitivity set'.



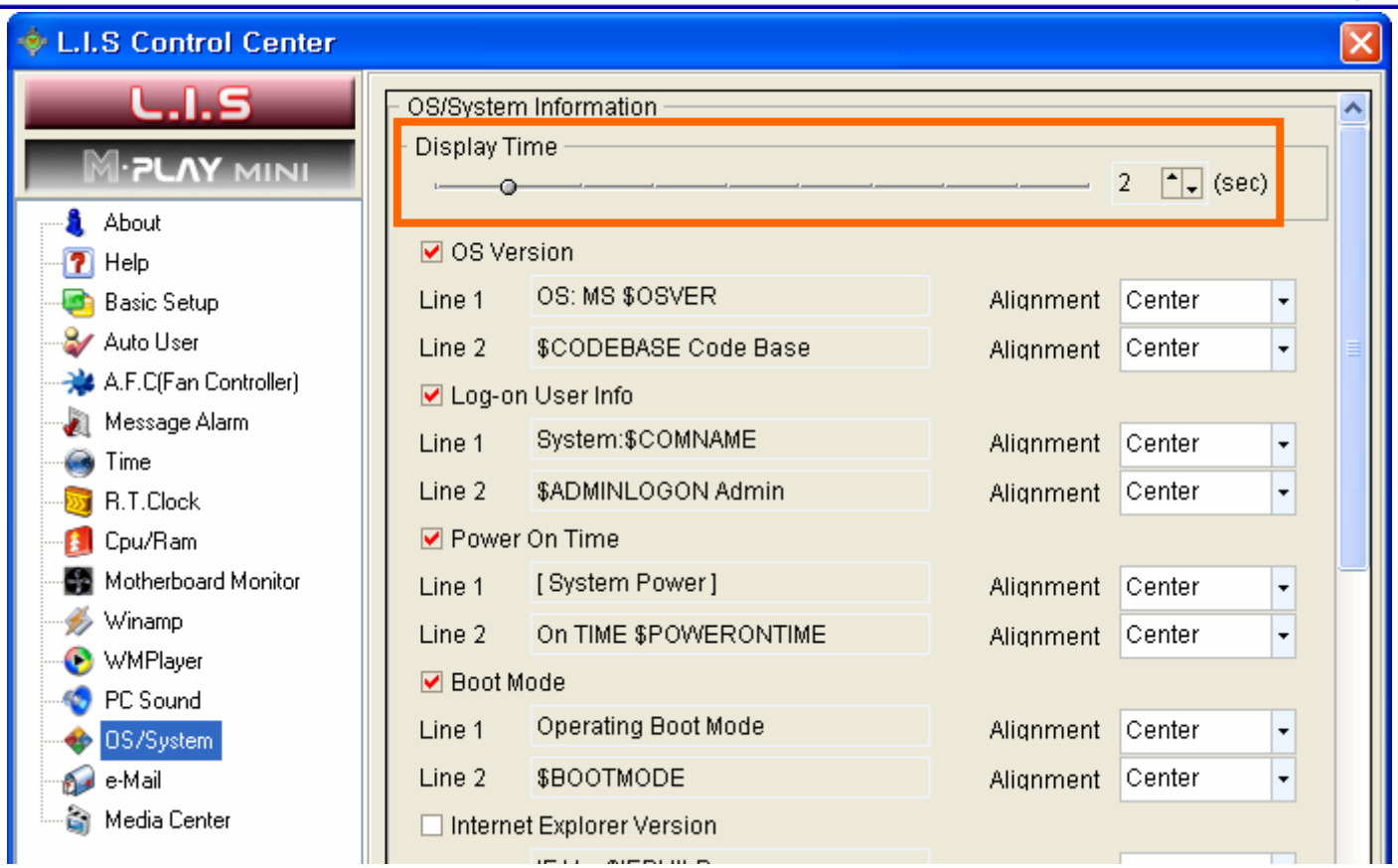
OS / System

Control Center

You can use this feature to select information on the user's OS and related System.



It can be setup to display only information relevant to the user by checking the boxes for desired items.



By adjusting the Display Time Set, you can choose how long you want this information to be shown.

Command :

$OSVER : OS Version

$CODEBASE : OS codebase infomation

$COMNAME : Computer name

$ADMINLOGON : Log-on information of administrator

$POWERONTIME : Playing time after PC booting

$BOOTMODE : Boot mode

$IEBUILD : Internet Explorer build infomation

$IEVER : Internet Explorer version infomation

$OEMCODEPAGE : OEM code page information

$DIRECTX : DirectX information

$TOPWIN : Top of running program information

$HDDTOTAL : HDD total capacity

$HDDUSE : Used HDD capacity

$HDDFREE : Available HDD capacity

$COMPANY : Company name

$OWNER : Owner name

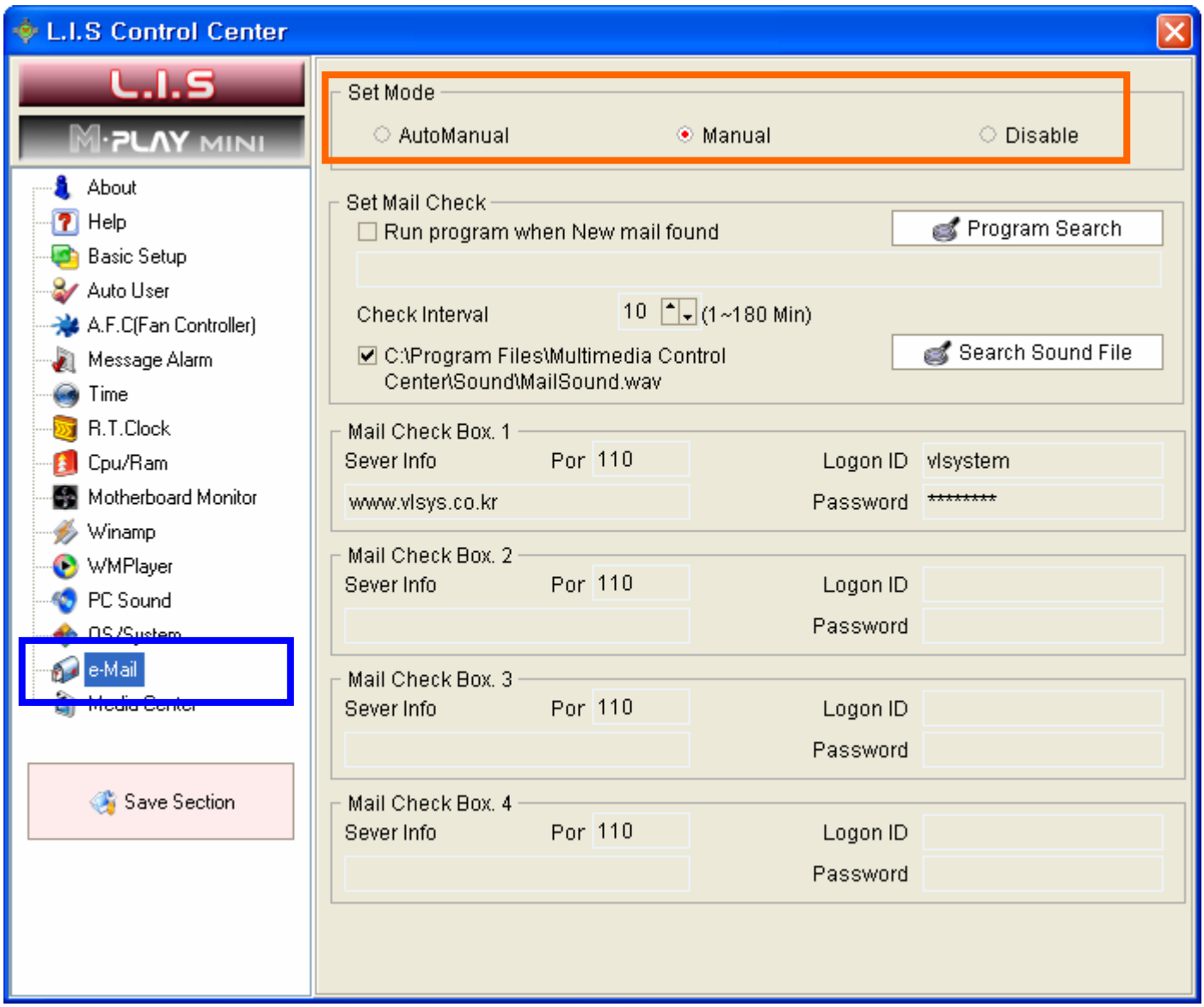
$IPADDRESS : IP address

$INTERNETCON : Internet connection information

e-Mail

Control Center

L.I.S 2 informs you of newly arrived mail by checking every designated POP3 mail account. When new mail is detected, there is a performance program and sound file.



Set Mode : This is used to set the performance mode.

1. Manual – For the checking e-mail, user need to click e-mail on the Control Center or press the “Ctrl + Alt + Z”
2. Auto - You assign the POP3 mail accounts that are to be periodically checked.
3. Disable – No checking e-mail

Run program when new mail found : A program file is assigned here, for when new mail is detected.

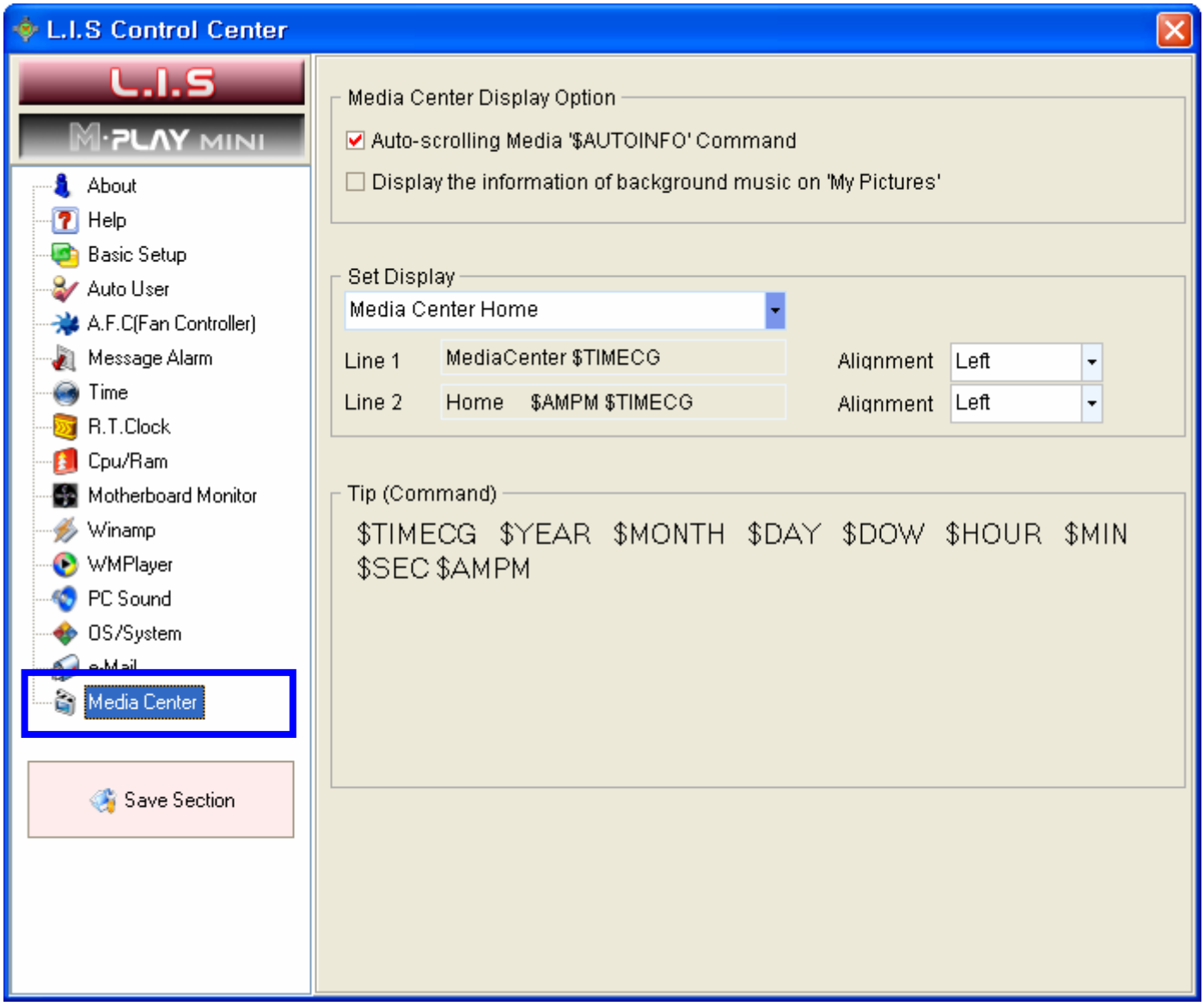
Check interval : After checking interval, press the button “Search sound file”. You can assign sound file when new mail is detected.

Media Center

Control Center

This media center displays the working of Windows XP Media Center Edition (MCE) on L.I.S 2. If you select 'Auto User Mode', it can be output related to the information by auto-sensing Media Center performance.

> For the information of TV/ DVD/ Video/ Photos/ Online spotlight/ programs, it will be displayed real time on the menu of Media Center.
>
> On occasion of installing MCE OS by Microsoft, this function will be operated on your system. MCE version is above MCE 2005.

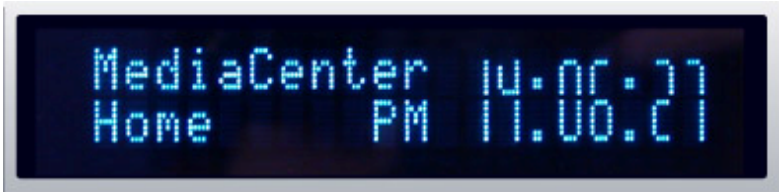


Auto scrolling Media '$AUTOINFO' Command – This scrolls automatically too long for its sentence title, name & etc to display.

Display information of background music on playing 'My photo' - When it performs photos slider show, it displays information of background music on playing.

This (Display type related to the MCE action) can be controlled the item and location by using each menu's command at user's option.

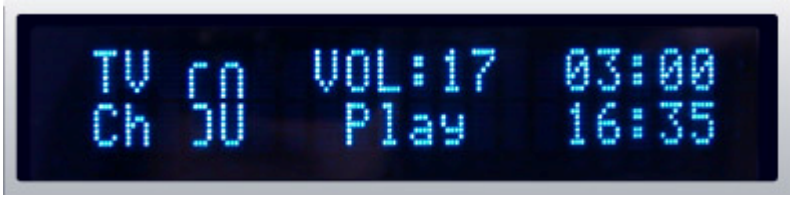
Command

$TIMECG : Current time $YEAR : Year $MONTH : Month $DAY : Day $DOW : A day of week $HOUR : Hour $MIN : Minute $SEC : Second $AMPM : A.M, P.M	
	MediaCenter $TIMECG Home $AMPM $TIMECG

Support of Windows XP Media Center Edition 2005

» 1. TV

The channels, volume, title of broadcast information and play time.



$TIMECG : Current time

$YEAR : Year

$MONTH : Month

$DAY : Date

$DOW : A day of week

$HOUR : Hour

$MIN : Minute

$SEC : Second

$AMPM : A.M. / P.M.

» 2. DVD

The title, track, play time and volume.

$TITLE - DVD Title

$PLAYMODE - Play mode

$TOTALTIME - Total time of playing media

$PLAYTIME - Current time of playing media

$ENTIME - Remainning time of playing media

$TITLENUM - Title number

$TOTALTRACK - Total track number

$TRACKNUM - Play track number

$PLAYTIMECG - Display time as the large digit CG

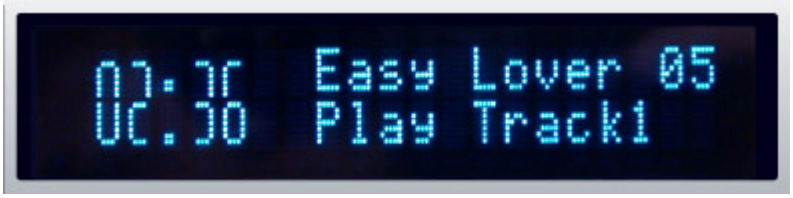
$VOL - Sound volume

» 3. Guide

It displays the moving to TV guide menu.

» 4. Music

The titles, file name, play time, audio information, analyzer, and volume.



$AUTOINFO - Auto-display media information

$PLAYTIMECG - Display large CG for play time

$TITLE - Title

$ARTIST - Player or singer

$ALBUM - Album name

$PLAYMODE - Play mode

$TOTALTIME - Total time of playing media

$PLAYTIME - Current time of playing media

$ENTIME - Remainning time of playing media

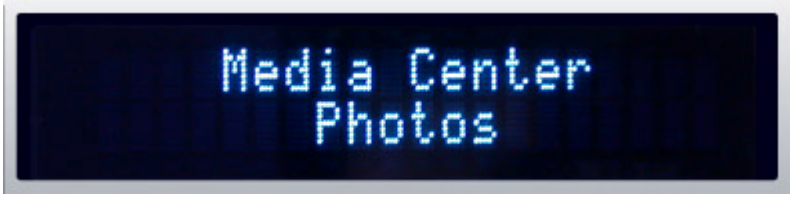
$TOTALTRACK - Total track number

$TRACKNUM - Play track number

$VOL - Sound volume

» 5. Photos

The file name and turning time for showing the image during the slide show.



$CURRPIC - Display image file name

$TRANTIME - Turnning interval time(sec)

» 6. Videos

The title of video file, file name, play time and volume

$PLAYMODE - Play mode

$TOTALTIME - Total time of playing media

$PLAYTIME - Current time of playing media

$ENTIME - Remainning time of playing media

$TITLE - Title

$PLAYTIMECG - Display large CG for play time

$VOL - Sound volume

» 7. Recording

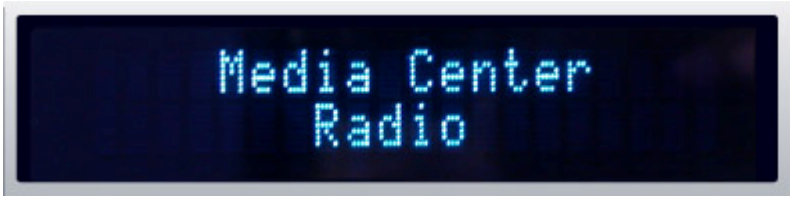
Data recording about TV, Video, Music

$REC_MEDIANAME - Media name for recording

$REC_TRACKNUMCG - Display large CG for recording track number

$REC_TRACKNUM - Recording track number

» 8. Radio



It displays the menu title moving to radio menu.

$RADIOCGCH - Display large CG for radio frequency selected

$RADIOCH - Radio frequency selected

$PLAYMODE - Play mode

$VOL - Sound volume

» 9. Online Spotlight

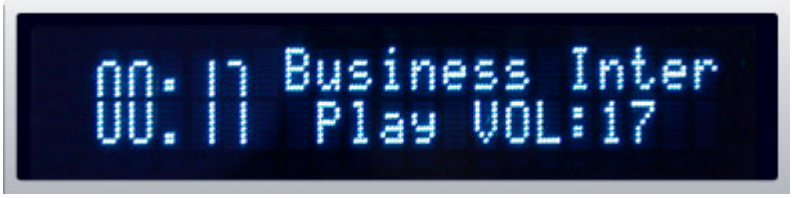
Media title, play time, volume and file name through the online.

» 10. Writing Disc

Recording information of CD, DVD
$WRITECGPER - Display large CG for recording progress rate $WRITEPER - Recording progress rate $WRITEFORMAT - Recording format

» 11. Record Shows

Play time, title, and volume when is displaying TV recorded.



$PLAYMODE - Play mode

$TOTALTIME - Total time of playing media

$PLAYTIME - Current play time

$ENTIME - Remainning time of playing media

$TITLE - Title

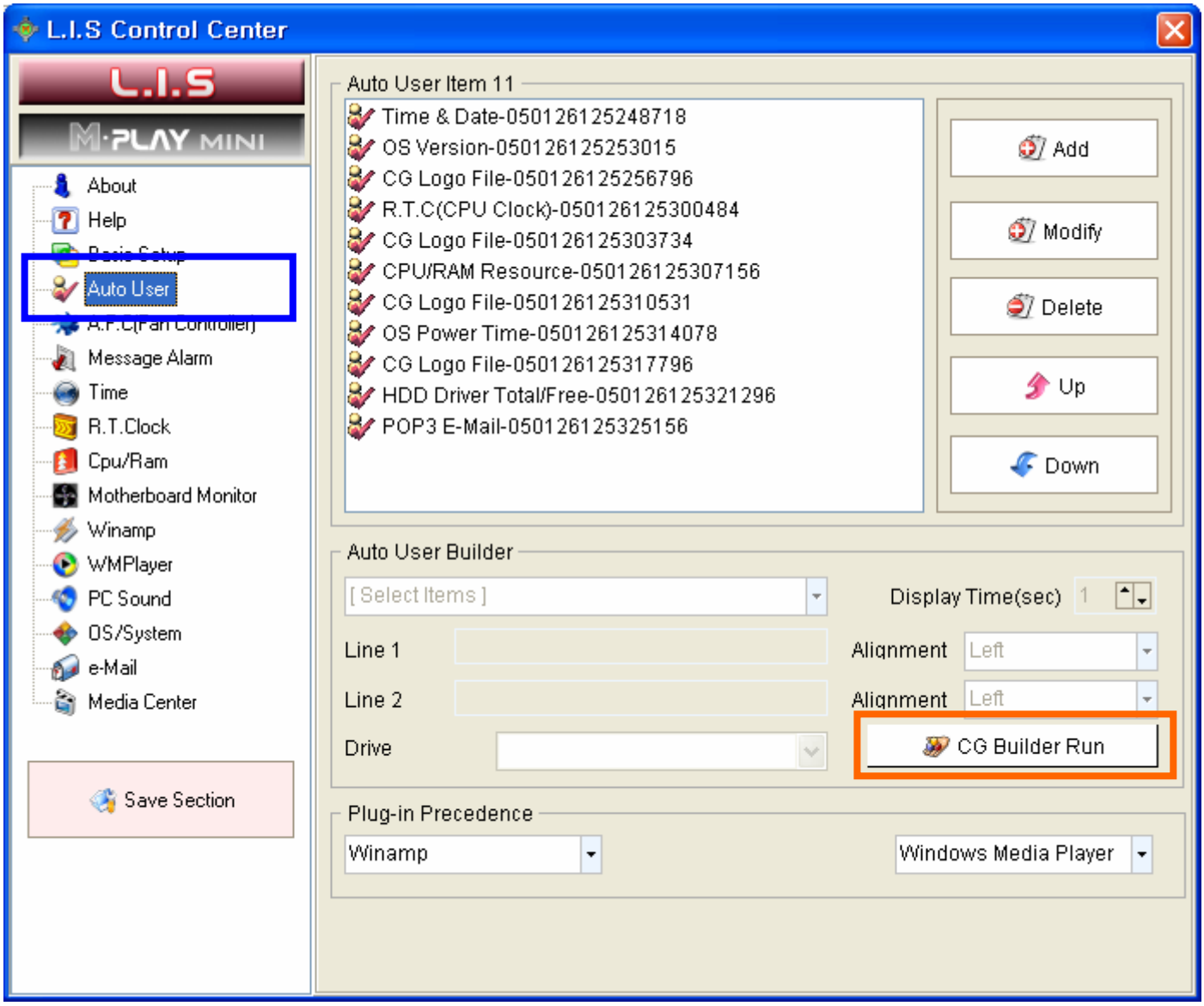
$PLAYTIMECG - Display large CG for play time

$VOL - Sound volume

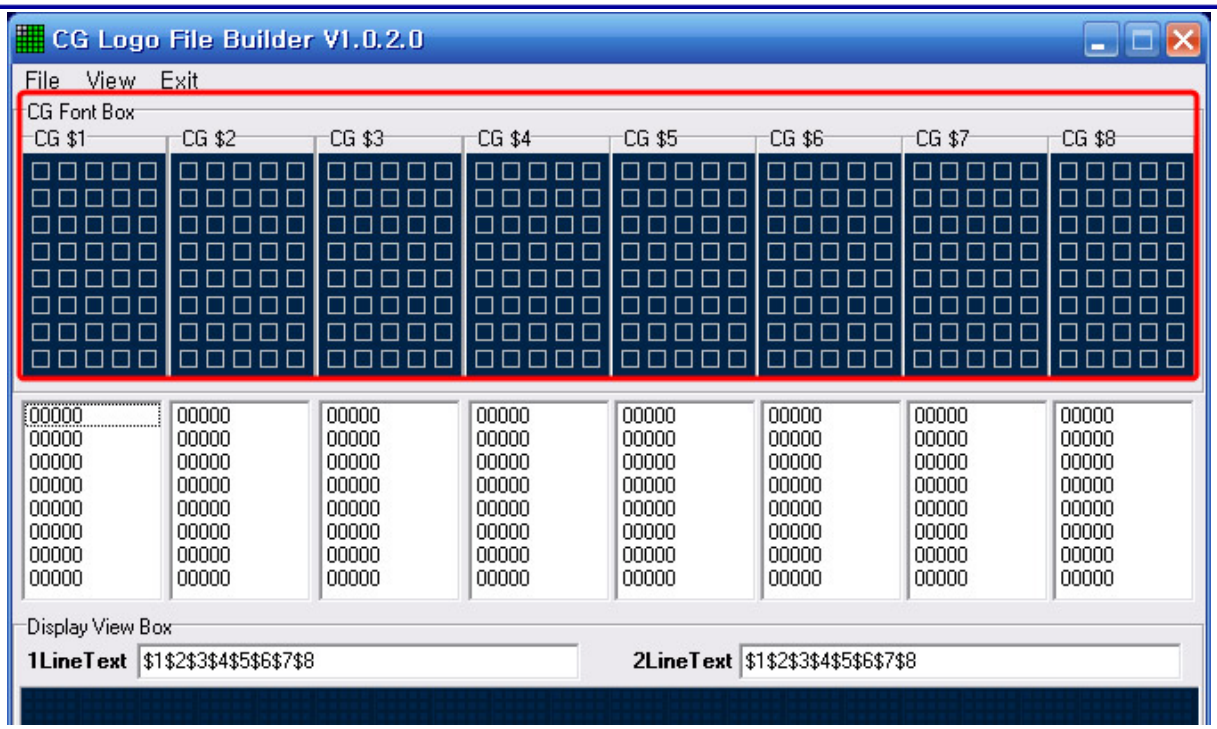
CG Builder

Control Center

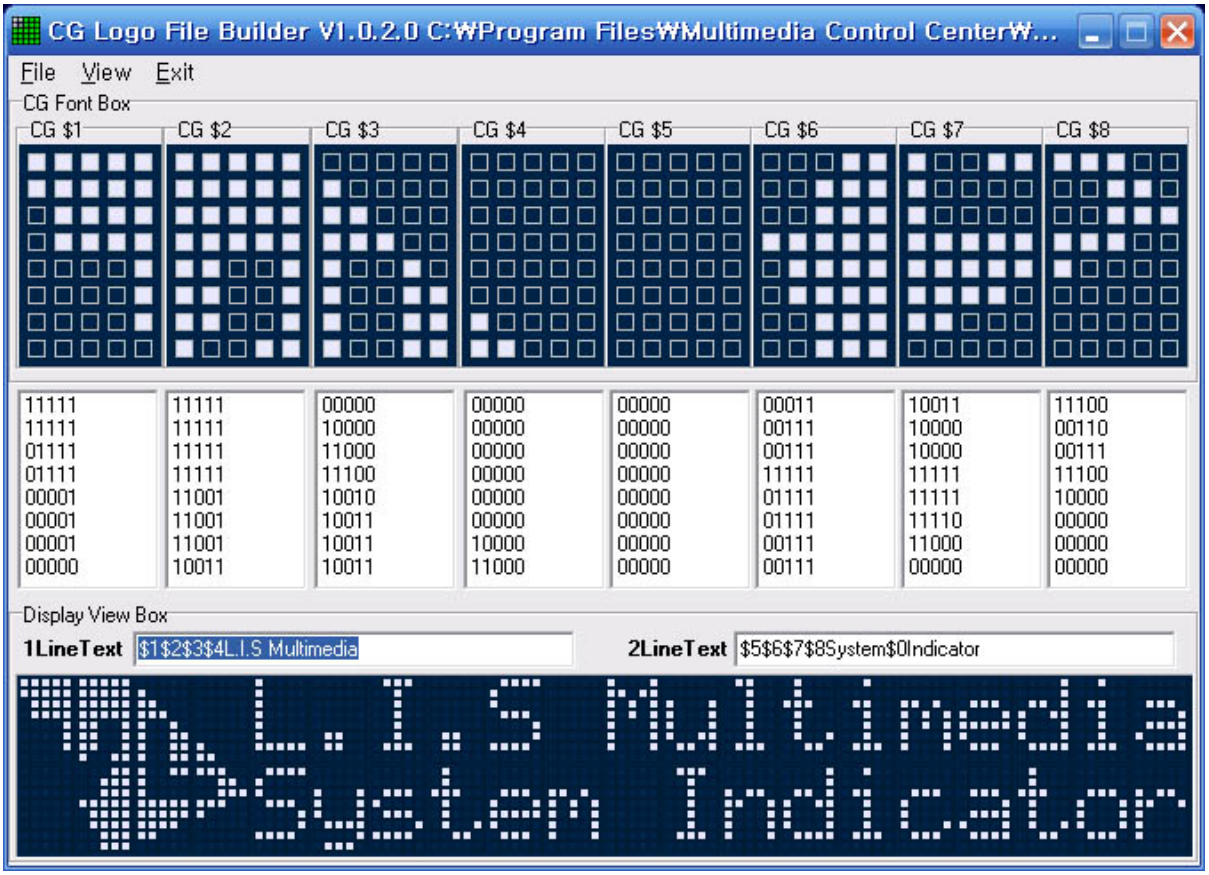
CG Builder is program which is able to make in handy user's own logo and symbol mark.



Click the button 'CG Builder Run' on the top side of Control Center, and then CG Builder put in practice.



It can be designed any logo or symbol mark by clicking mouse on the above square at user's option. On clicking the some square, it also shows you this making at below "Display view box"



You can describe marking to the string ($) 1~8 range, and for the each array of CG, you can lay them by using below Line Text at user's option. One of character's CG can be possible double arrangement; "Blank" should be marked as $0.

Caution and Technical support

*** Before using L.I.S 2 please note hereunder caution:**

* Turn off the computer while installing the L.I.S 2 indicator. Also do not plug off the Serial cable while L.I.S 2 is running. This may damage the system.

* L.I.S and L.I.S 2 use a different cable and it is not compatible. Do not plug the L.I.S cable to the L.I.S 2 indicator.

* User can set the time to shut down the system. It can also be used as Sleep mode on television.

* To use L.I.S 2 effectively, it requires the latest service pack from Microsoft.
Ex) Windows XP (service pack 1), Windows 2000 (service pack 4)

* Red, Green, Blue Jumper on the controller manages the LCD brightness. Please do not change any settings. (L.I.S 2)

* Shall you use the fan controller, do not exceed more than 10W (12V, 0.83A) on each channel. This may cause damage to the system. If the fans are set to low, it may cause severe l damage to the system. (L.I.S 2)

* V.L system is not responsible for repairing the product If the damage has been occurred due to the listed reason above.

ADD. 2nd FL. Deayang B/D, 29-5, Singye-Dong, Yongsan-Gu, Seoul, Korea 140-190
V.L.System Co., Ltd
Tel. 82-2-717-6694~5 Fax. 82-2-715-5144 URL.http://www.vlsys.co.kr

Thank for using the L.I.S 2

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It may rather make a difference typographic between catalog and product.
The specification and function can be modified it optional with maker.