



Automatic Timer Broadcast System
User Guide

Model Name : QCM-6200
VER. G

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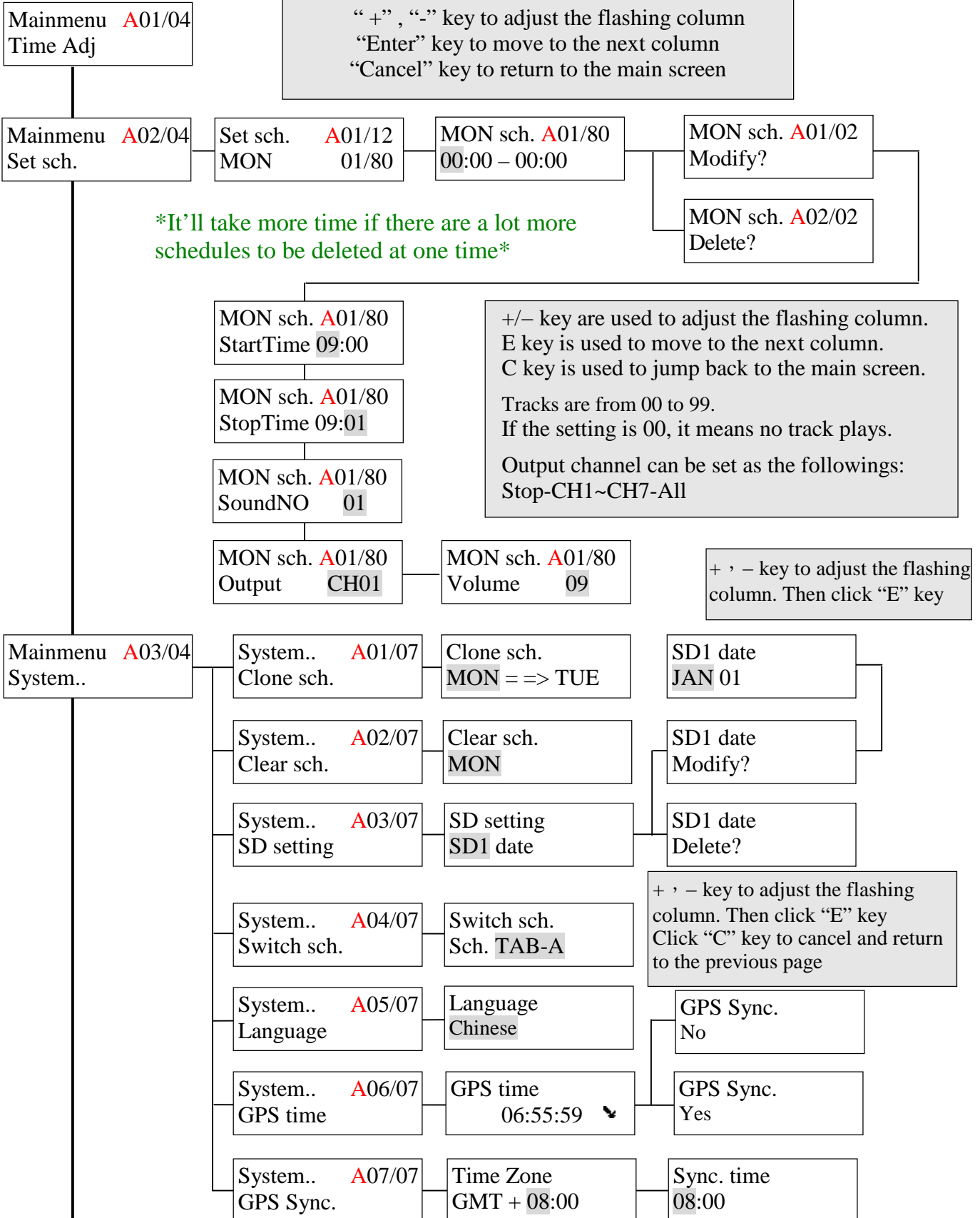
1.1 System Featu

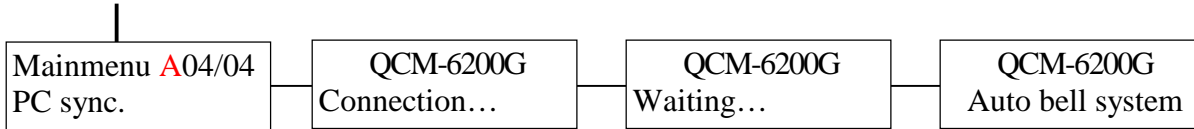
- (1) Built-in memory : **CF card**. Bells: **99 bells**
- (2) **Built-in 6 melodies.** (Please refer to the manual if want to hear the melodies in advance)
- (3) **RS-232, a communication port to PC, for schedule arrangements and data transmission**
- (4) **Volume adjustment in each schedule is controllable**
- (5) Up to 80 schedules to be set freely on each weekday
- (6) Different schedules for all weekdays
- (7) Able to have the same schedule on each day
- (8) Provide extra 5 “Special Day”s (Each has 80 schedules at most) for schedule arrangement
- (9) Provide 7 relay output pins for programming
- (10) Provide one relay output pin to be triggered for starting an outer amplifier
- (11) Fully LCD display in Chinese/English
- (12) All schedules can be operated via the LCD front panel
- (13) Output pins and melody performances can be activated manually or automatically
- (14) The schedules and calendar will be hold if power failure
- (15) Display current date and time when in stand-by mode
- (16) **External GPS module (Optional equipment. Please contact the Sales Dept.)**
*Equipment: **GPS 1 on 1 or 1 on 2,3,4... as request**

1.2 Electronic Specification [for VCM-CF series]

- (1) Power: DC 12V / 1.5A An ADAPTOR (free), AC100-240-DC 12V
- (2) Display: 122x32 pixels, Chinese/English LCD back-lit panel
- (3) Function Key: 4-key function key
- (4) Power Off Data Storage: 10 years
- (5) Minimum Unit of The Time Setting: 1 minute
- (6) Output Pin: 8 units (7 units can be used as program controller. 1 unit can be an output for default value)
- (7) Standby Status Display: Year (4-digit) - Month - Day. Clock time: Hour : Minute : Second
- (8) A.F. Output: 3V p-p / 600 ohm(Ro)
- (9) THD Rate: $P_o=20W$, $f=1kHz$, 0.02 %
 $P_o=20W$, $f=40Hz$ to $15kHz$, 0.05 %
- (10) S/N Rate: 100 – 108 db
- (11) Internal Speaker: 1W, 30 db
- (12) Frequency Response: 100-20kHz
- (13) Dimension: Standard 1U Industrial Metal box

1.3 Front Panel Photo & System Function



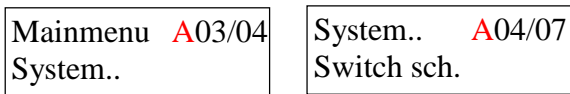


<Note>

- 1) When the system starts the transmitting program, it'll detect SCHEDIT program to see if it's connecting and downloading. If the system is disconnecting for more than one minute, it'll return to the previous page. System Reset can *shut off* the system and then turn it on.
- 2) Transmit, edit and download the schedule data via SCHEDIT.EXE tool software on PC only.

☆New Functions :

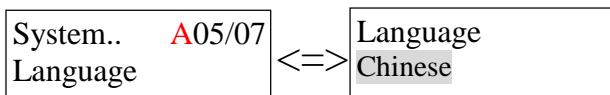
1.) Schedule Shift:



Download "Schedule A" & "Schedule B" from the SCHEDIT program.
Operate via the KEYPAD on the LCD, entering the System Setting menu→Schedule Shift.
Select the preferred schedule to program here.

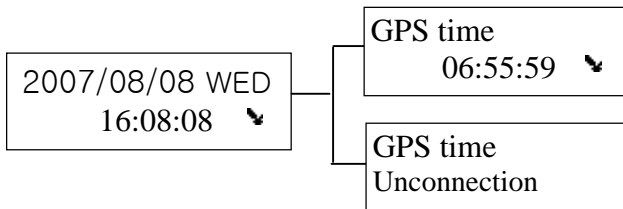
『A』 means the settings are valid in the Schedule A only.

2.) Language:



QCM-6200G LCD language interface:
Chinese/English

3.) GPS Time:

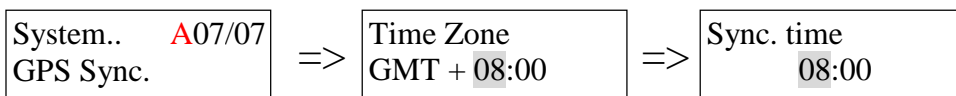


Current GPS time:
QCM-6200G synchronizes time with GPS.

P.S: If not equipped with GPS, this function remains inactive!

*When GPS connects successfully, there'll be a **satellite icon** underneath the right side of the LCD screen on the QCM-6200G!

4.) GPS Synchronization:



Select Time Zone first Then set the time in the time zone

For GPS Synchronization settings, the description is as follows:

When GPS time is at 08:00 in GMT +8:00 time zone, QCM-6200 will synchronize time with GPS!!

☆Attention :

- 1.) Please do not shut off the power supply when the system is “Saving”, “Clearing” and “Transmitting”.
- 2.) When the system is in the setting mode, the function of automatic broadcast (schedule announcement), but the clock and calendar still function.
- 3.) To sure the timer system can function, please check if it is in operation (in stand-by mode).
- 4.) Time setting rules for schedules (minimum unit: “minute”)

Sample schedule	AM 08:00		AM 08:10	
invalid message	AM 08:00		AM 08:12	*overlap with the sample “start time”
invalid message		AM 08:05		AM 08:20 *overlap with the sample time
valid message			AM 08:10	AM 08:20
valid message			AM 08:21	AM 08:30

5.) Priority Rule for Schedule: Weekday Schedule>SPD Schedule>Unavailable Day

Weekday: P1~P7 are output channels for announcement. Conduct the schedules on weekdays, MON~SUN.

SPD: P1~P7 are output channels for announcement. Conduct the schedules on SPD (SPD1~SPD5). (If there’s a weekday schedule on a SDP, the system will conduct the one on SPD instead.)

Unavailable Day: When Unavailable Day is set in the program, the QCM-6200G won’t conduct any schedules. (Including the weekday schedules on unavailable day)

EX:

Weekday Schedule (inactive)	P01	AM 08:00	3/23 MON	AM 08:10
ν SPD Schedule	P01		AM 08:05 3/23	AM 08:06
Unavailable Day			null	

EX:

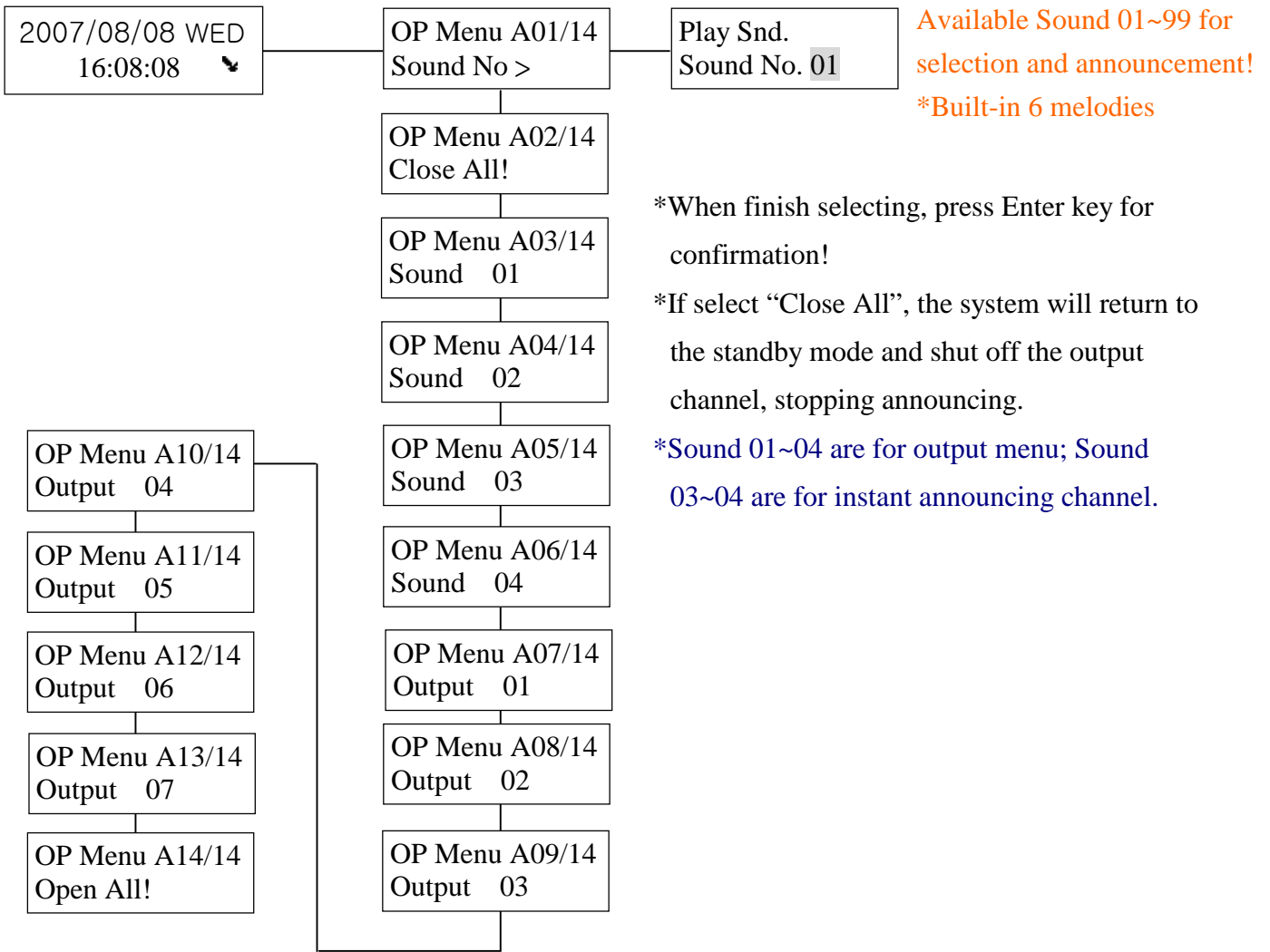
Weekday Schedule (inactive)	P01	AM 08:00	3/23 MON	AM 08:10
SPD Schedule	P01		null	
ν Unavailable Day			3/23	

6.) Schedule Arrangement Settings

	Keypad on QCM-6200G (manual)	PC Software
Weekday Schedule Settings (MON~SUN)	ν	ν
SPD Schedule Settings & SP date Setup (SPD.1~SPD.5)	ν	ν
Unavailable date Setup	χ	ν

1.4 Manual Operation List

In Standby mode, press the MANUAL key to enter **Output Menu** settings. Turn on the O/P and play the announcement manually!



1.5 Schedule Volume Output Adjustment

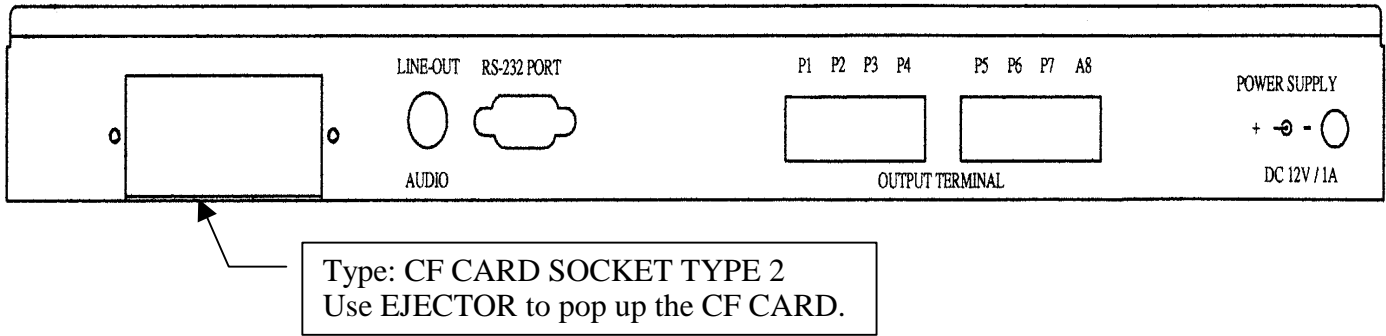


* Up to 14 degrees
 * Default value is 9th degree (0 db)

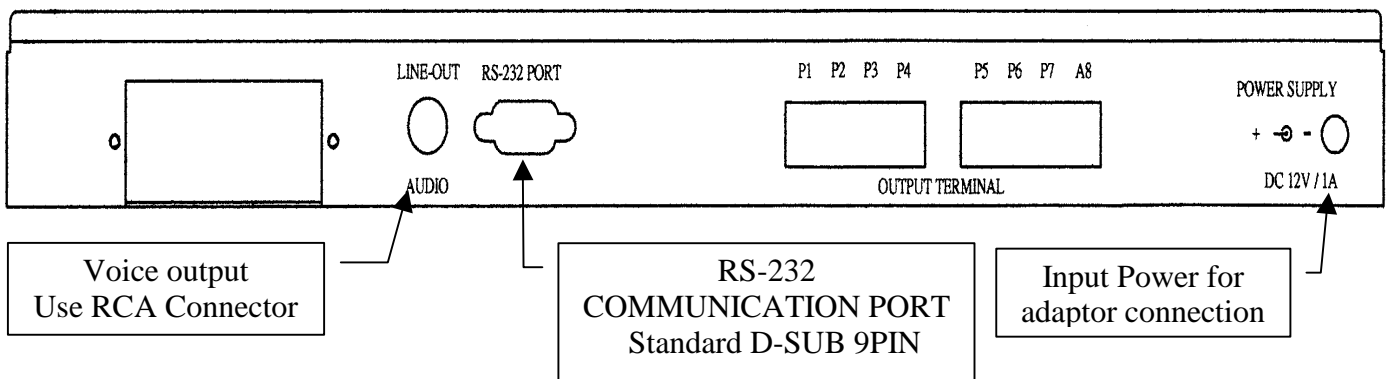
- 0 = -78 db
- 1 = -8 db
- 2 = -7 db
- 3 = -6 db
- 4 = -5 db
- 5 = -4 db
- 6 = -3 db
- 7 = -2 db
- 8 = -1 db
- 9 = 0 db
- 10 = +1 db
- 11 = +2 db
- 12 = +3 db
- 13 = +4 db
- 14 = +5 db

1.6 Back Panel Connector Illustration

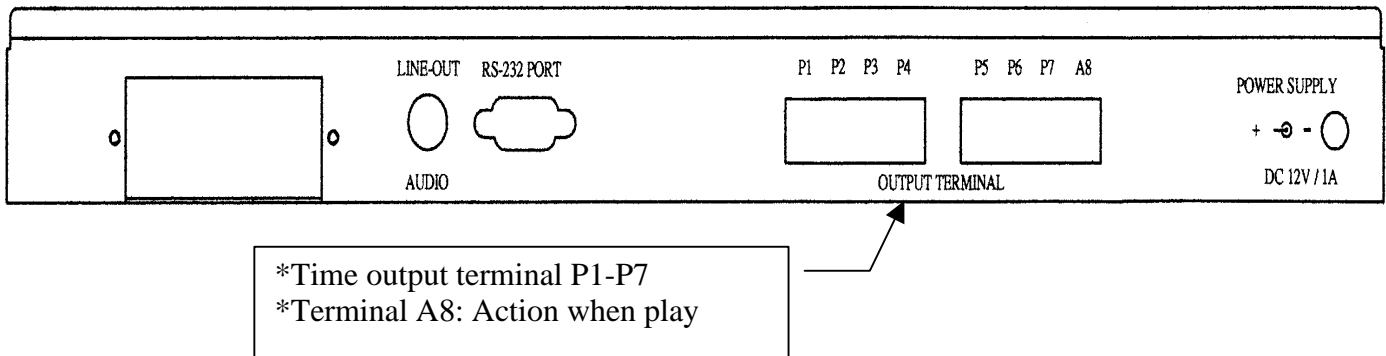
(1) Leave an open square locked by a panel on the left. It can quickly unlock the panel by dismantling the screws when change the CF CARD.



(2) Back Panel LINE-OUT / RS-232 PORT / POWER SUPPLY Illustration



(3) Back Panel RS-232 PORT/CIRCUIT CONTROL OUTPUT CONNECTOR/ POWER SUPPLY illustration

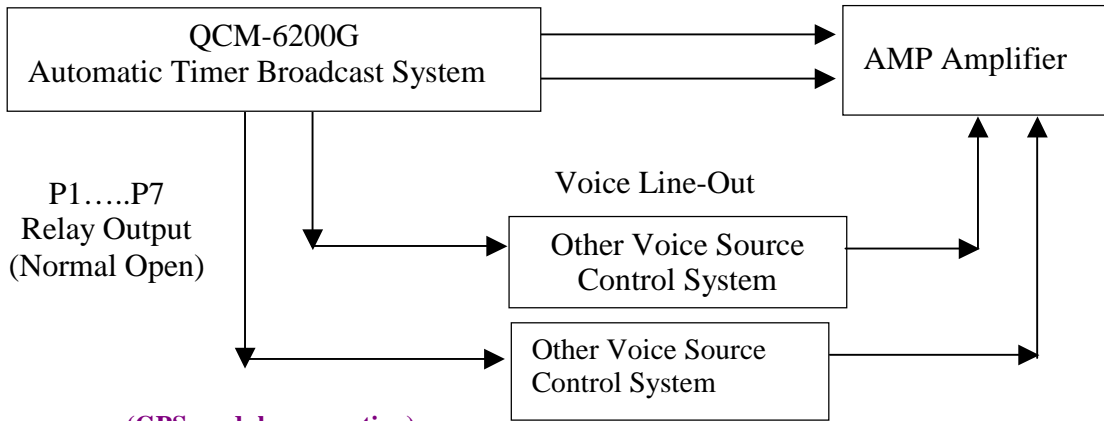


1.7 Accessory

- (1) ADAPTOR × 1 (Spec. : 100~240-VAC TO DC 12V 1.5 A)
- (2) L shape iron for fixing the standard 19" (rack for mounting) × 2 pcs
- (3) CD-ROM × 1

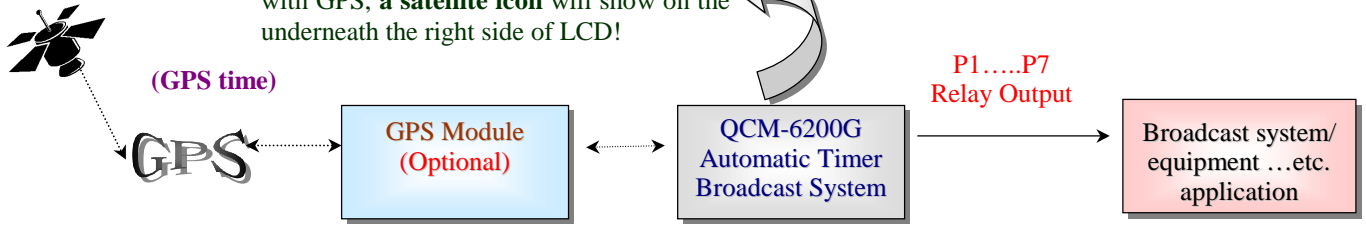
1.8 System Functional Diagram

Output Terminal A8 (default value when play)



(GPS module connecting)

When QCM-6200G connects successfully with GPS, a **satellite icon** will show on the underneath the right side of LCD!



PC connecting

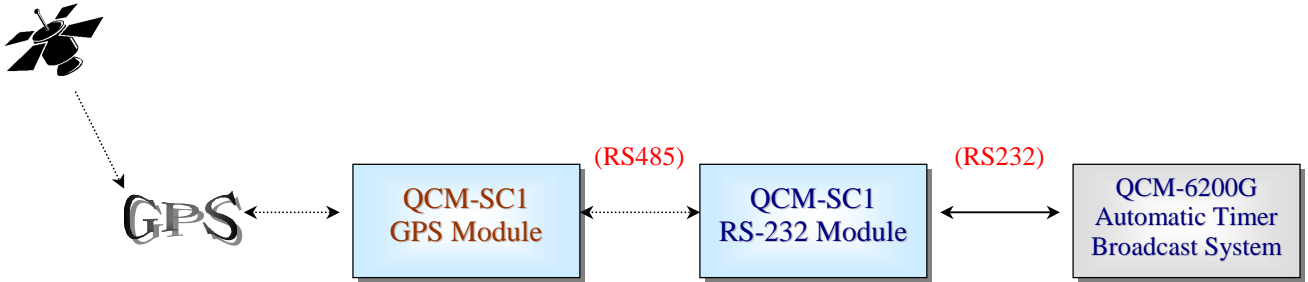


(Connection update)

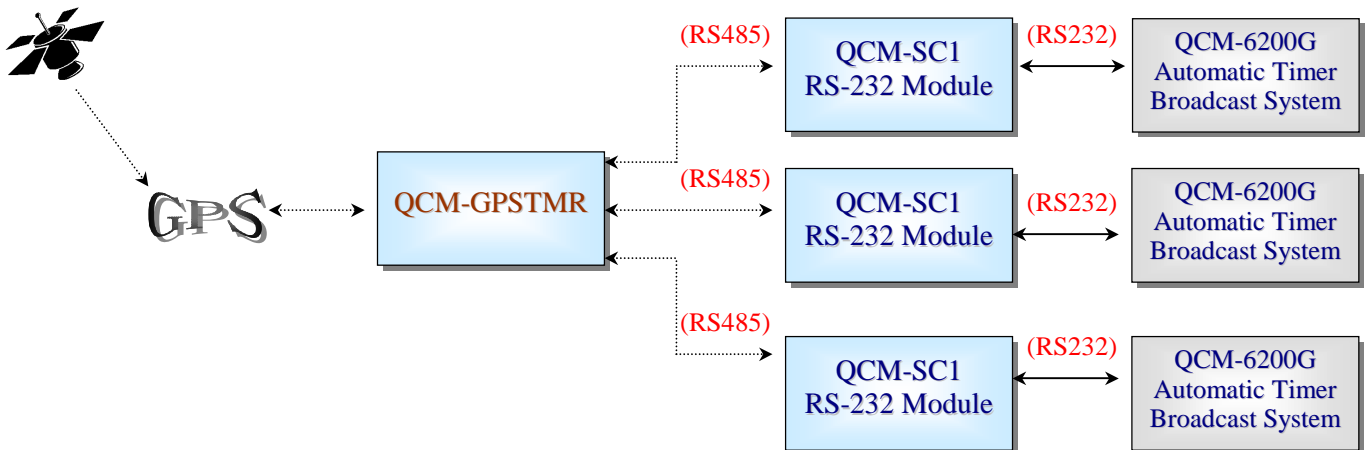
Adopt software tool, QCM-6200.exe, to program, download the schedules and system settings to QCM-6200G!

To synchronize time in QCM-6200G with it in PC, use the **synchronization** function in the software program!

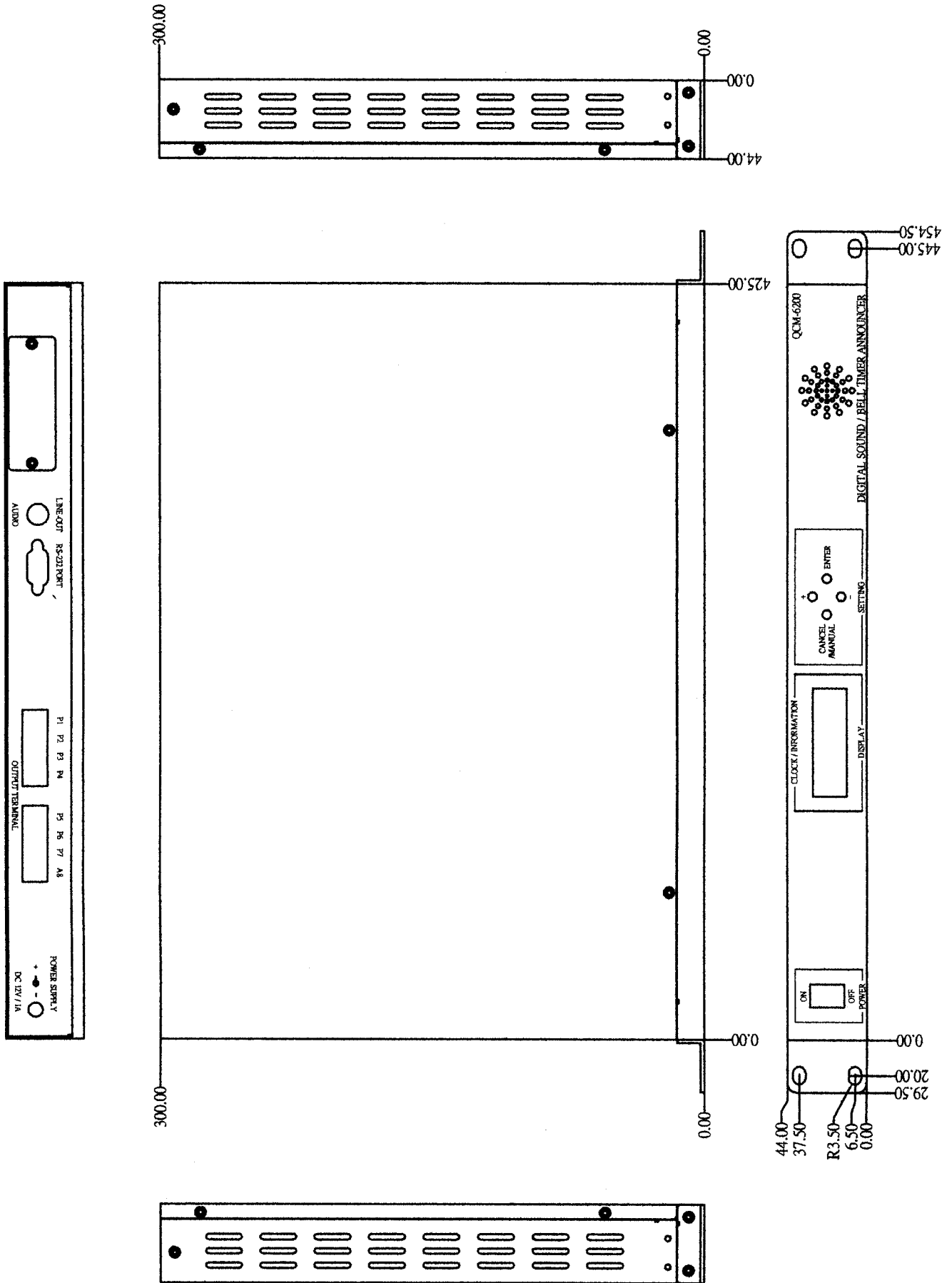
- GPS 1 on 1



- GPS 1 on 2,3,4...



1.9 Metal Box Dimension

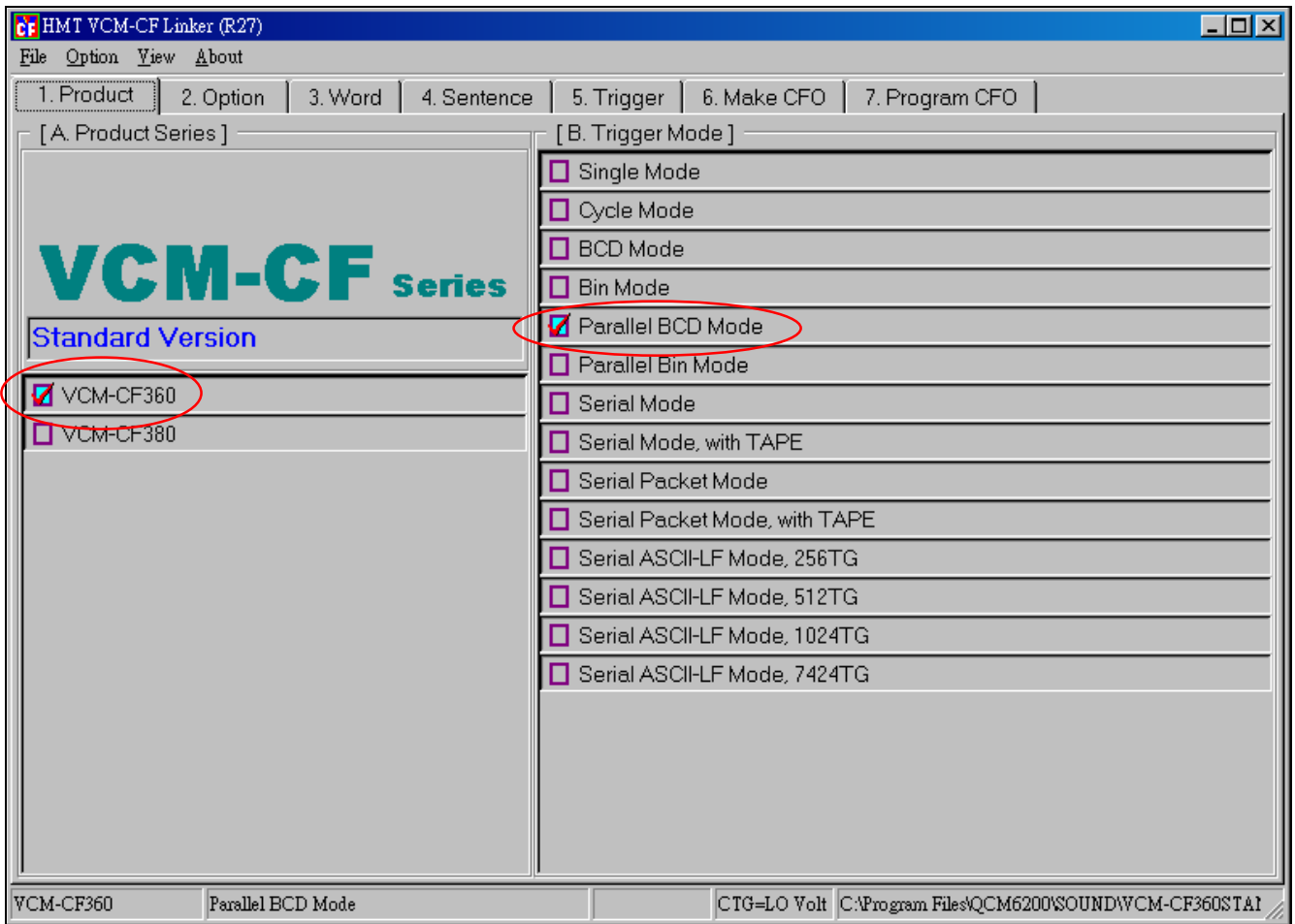


2.1 CF LINKER Tool Software Instructions



QCM-6200 is built-in 6 melodies and equipped with VCM-CF360 voice module. Via CF LINKER tool software, users can add new voice files by restoring them before making the ROM file and arrange the schedules via the LCD front panel. Clone the catalogue from the CD-ROM to hard disk C. Then load the setting file, *VCM-CF360 STANDARD.VCP*. Follow the steps below to edit and update the QCM-6200G.

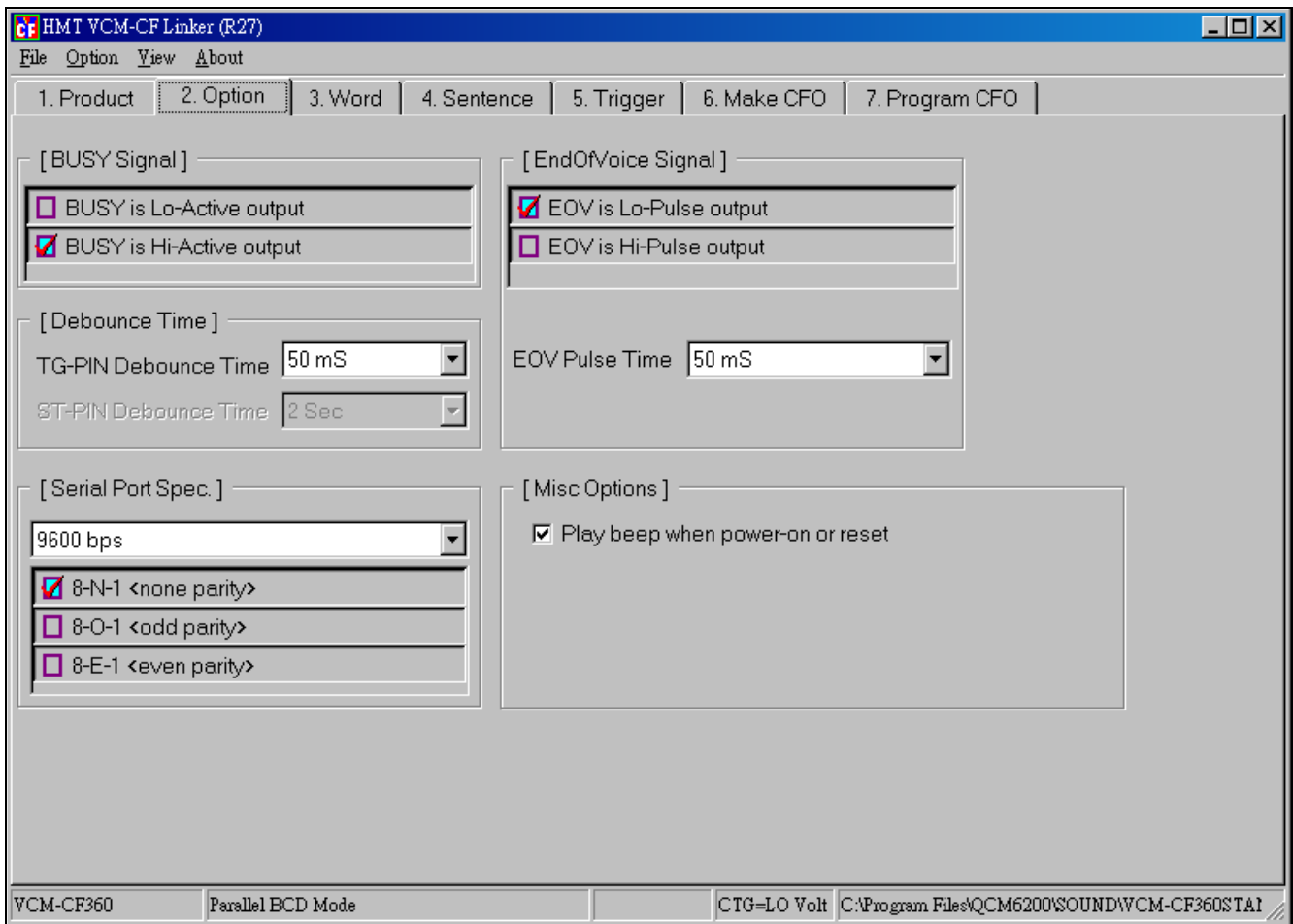
2.1.1 Selections for Product Series and Trigger Mode



*Product Series : Tick “VCM-CF360”

*Trigger Mode : Tick “Parallel BCD Mode”

2.1.2 Option Setting

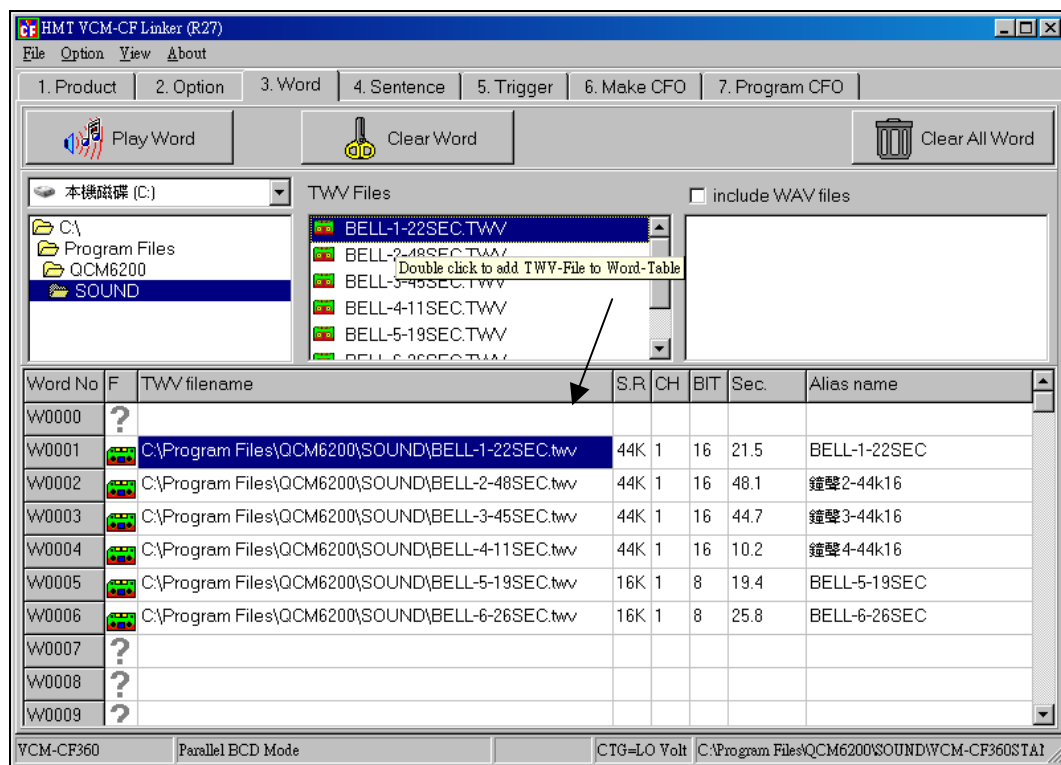


“Operation” can leave unchanged.

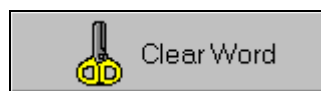
2.1.3 Voice Source File Setting

Double click on the TWV file or WAV file to place the selected file(s) to the Word Form below.

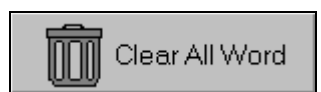
When the selected file is in a WAV format, it'll be transformed into a TWV format automatically.



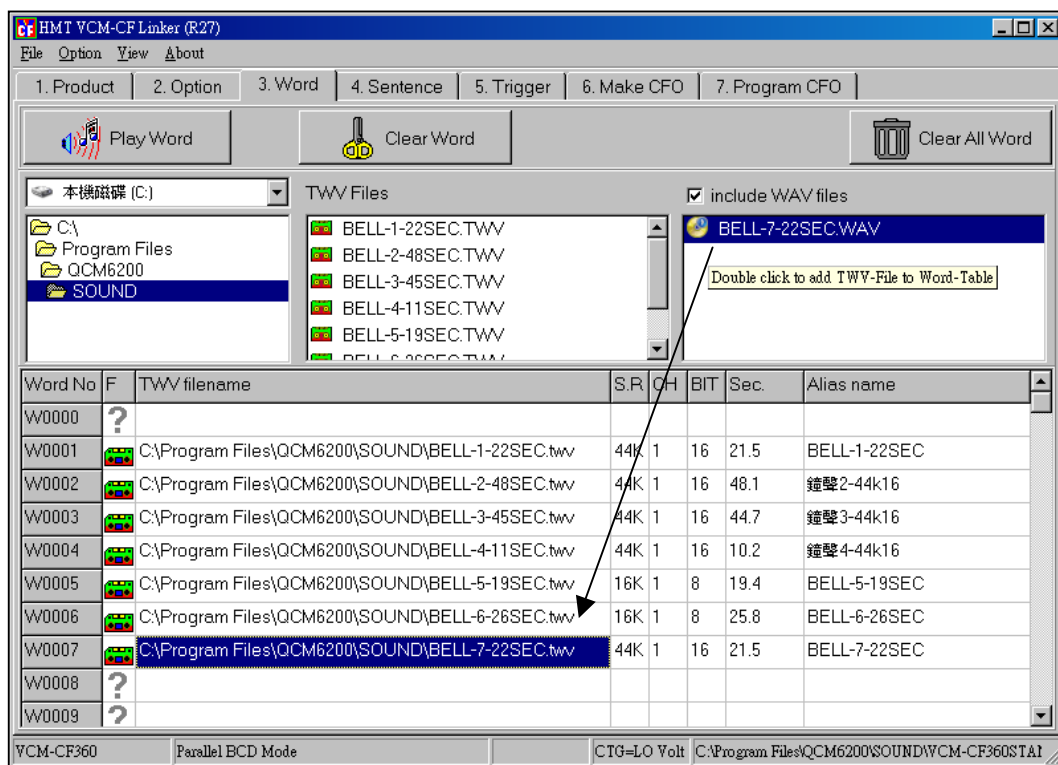
Play the selected voice file (Word file)



Clear the selected voice file (Word file)



Clear all voice files (Word files)

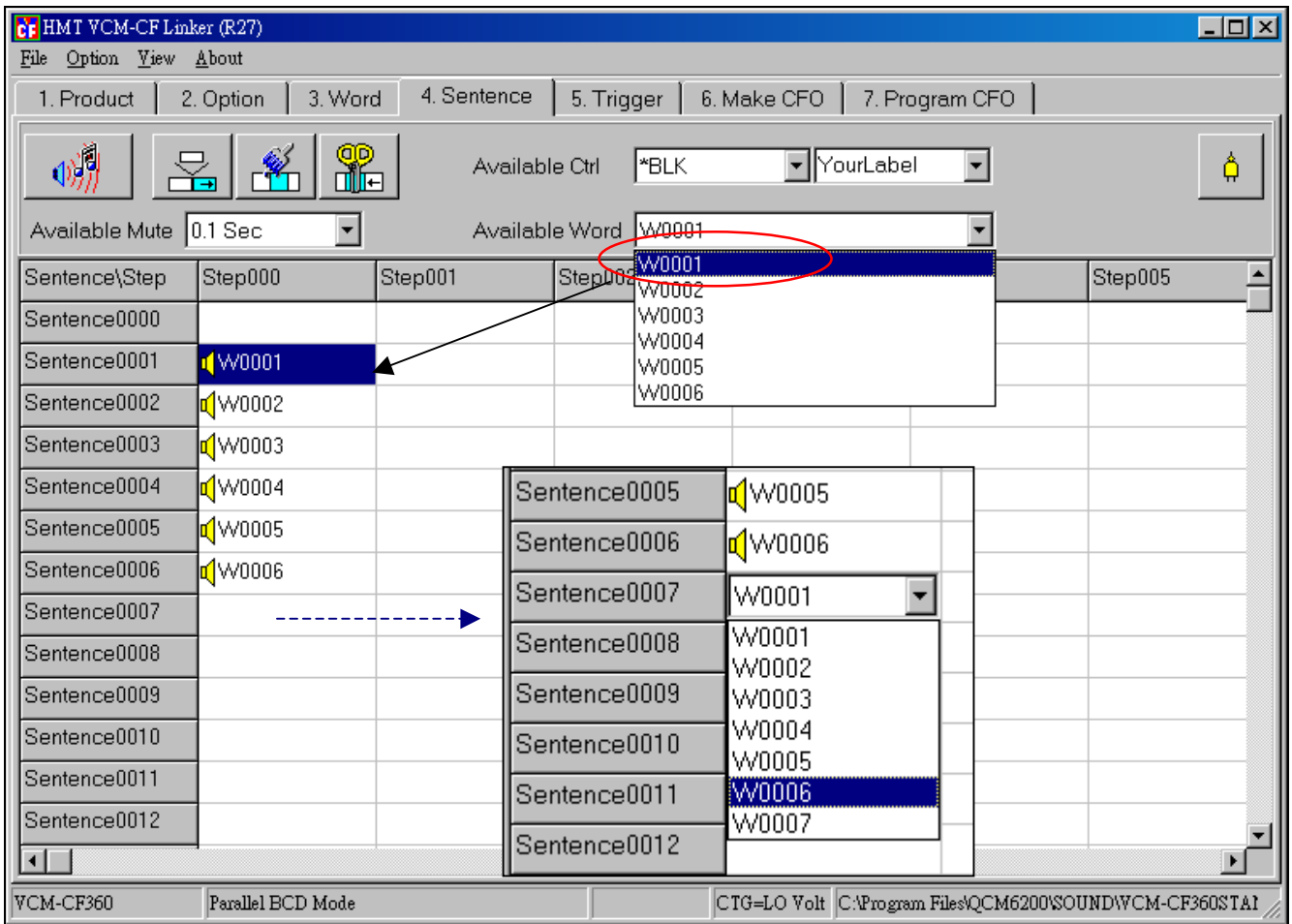


*Six melodies are set initially. For mixing a new file with the initial voice files, please save the initial files in the correct Path or a new set-up root.

*Newly add an example bell-BELL-7: ① Load in a voice file as W0007 (in TWV/WAV formats)

2.1.4 Sentence Arrangement

The content in each Sentence can be composed of Available Word or Mute.



By using **Available Word pull-down menu, you can select a Word file and place it in the Sentence-Step. Or double click in the Sentence-Step, the Available Word option list will appear. The WORD file only takes up the memory for the first use. Keeping placing the same WORD file in sentences won't take up any memory again.

[Attention]

The selected Word file only appears on the Available Word pull-down menu under the operation [3.Word] list.



Play Sentence



Clear a STEP



Insert a STEP



Delete a STEP



Arrange a control order (Optional in this system)

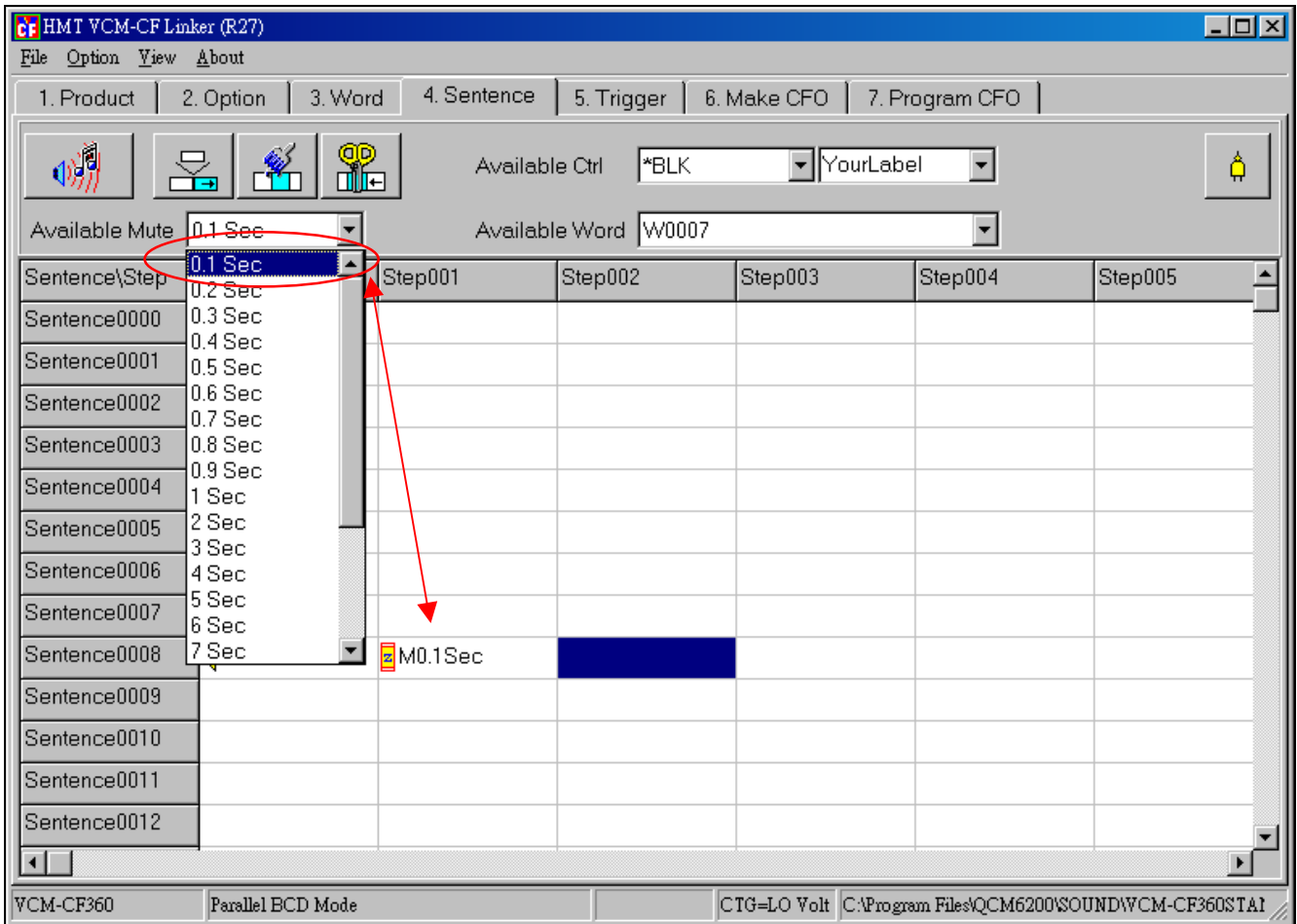
* Newly add an example bell-BELL-7: ② Place W0007 in Sentence0007

Available Mute Menu:

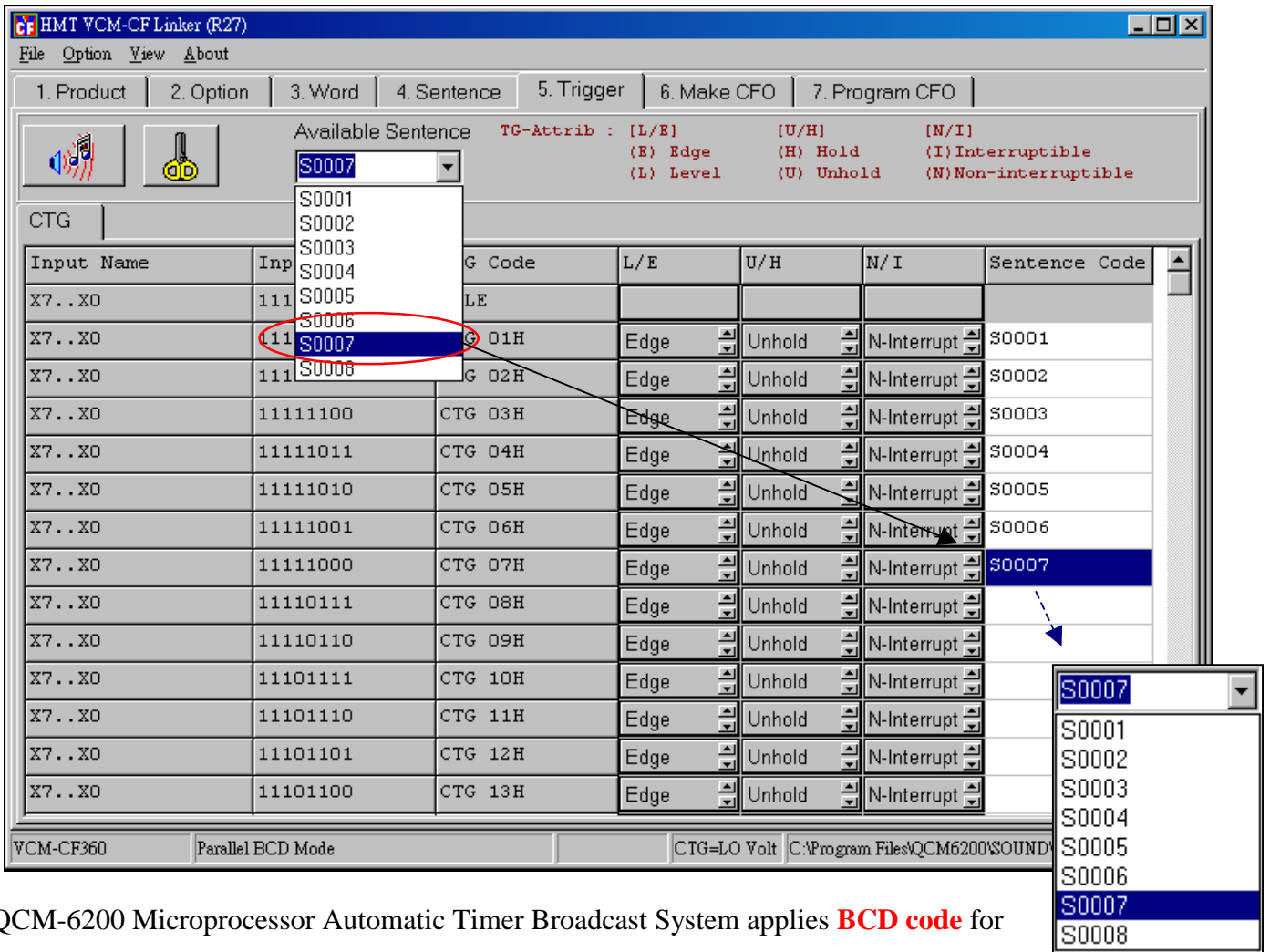
Insert a Mute in the Sentence-Step. **The mute won't take up the memory.**

There are 25 units to be composed of. (Mute Unit: Minimum is 0.1sec. Maximum is 30sec)

Please see the illustration below:



2.1.5 Trigger – Arrange a Sentence Code



** QCM-6200 Microprocessor Automatic Timer Broadcast System applies **BCD code** for up to 99 tracks. From the setting list, the NO.1 – 99 correspond to the “1 - 99” on the LCD front panel. Six melodies “1 – 6” are built in the CF CARD already. “7 – 99 “ are free to be arranged other SENTENCE CODES.

*** Attribute setting follows the default value under the file-VCM-CF360 STANDARD.VCP **(Edge/Unhold/N-Interrupt) ***** As the picture shown above.

Other function keys:



Play the selected Sentence Code

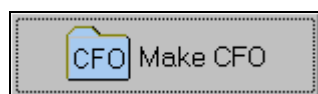
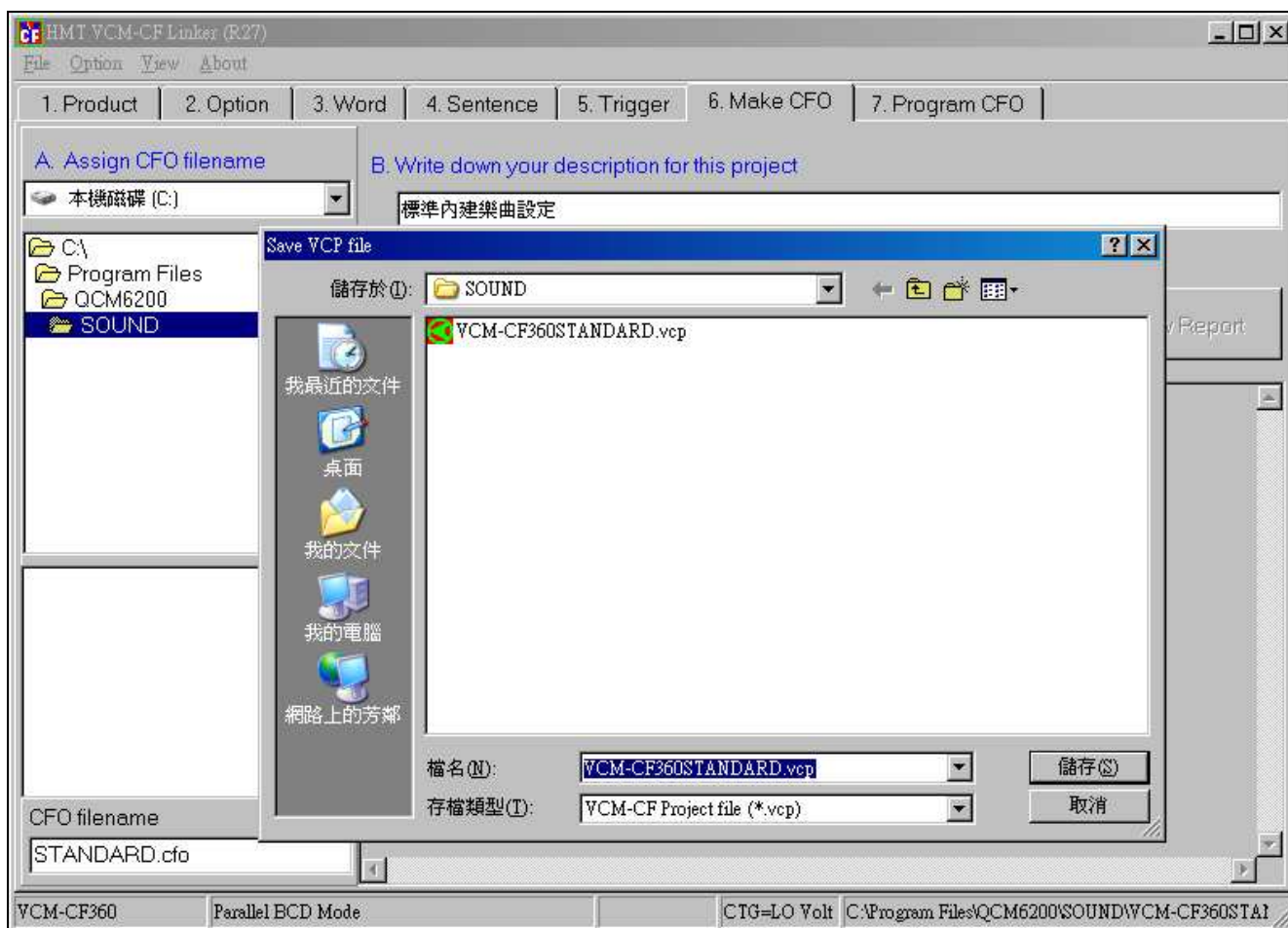


Delete the selected Sentence Code

* Newly add an example bell-BELL-7: ③ Place S0007 (Sentence0007) in VTG Code CTG07H (To play BELL 8-99..., place the sentence accordingly.)

2.1.6 Make CFO File

- ① Select the path for saving CFO file in “A. Assign CFO filename” ! (Suggest have the same path as the one of VPJ file.)
- ② When the path is selected, please name the CFO file in “CFO filename”
- ③ When click on “Make CFO” key, the system will remind users to save the data in advance (Shown below). For further revise, just load in the VPJ file to program.



Operate the function to produce CFO file

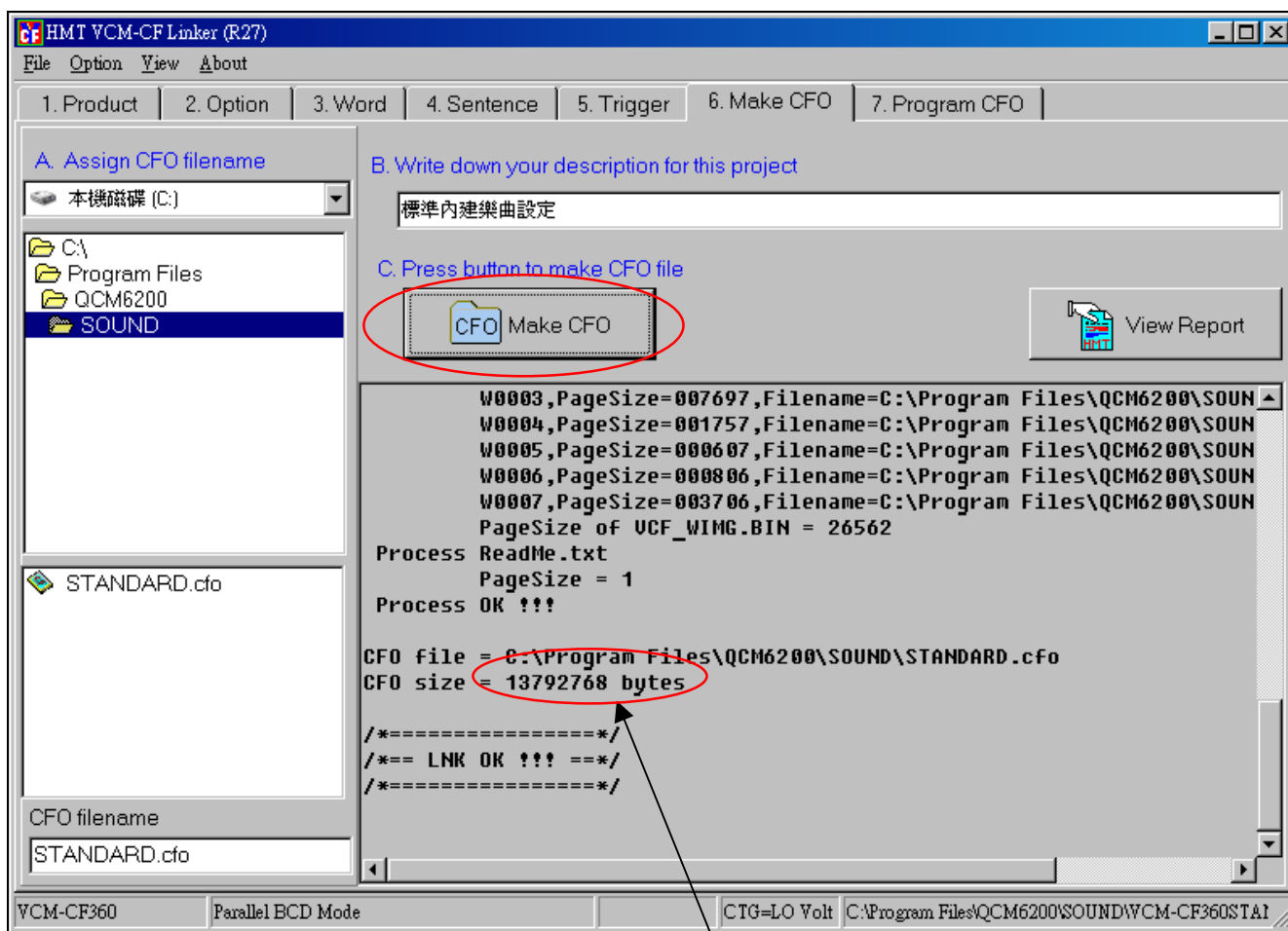
The extension name for VCM-CF is “.VCP”.

* Newly add an example bell-BELL-7: ④ make all the setting data as a CFO file

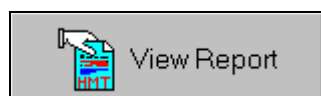
The picture below means the CFO file is done. Users will see “CFO size = xxxxxx bytes” in the report. It means how much storage is needed in a CF card. (1MegaByte=1048576 bytes)

[Warning!!]

The storage data in a CF card must have a larger capacity than it on the report.



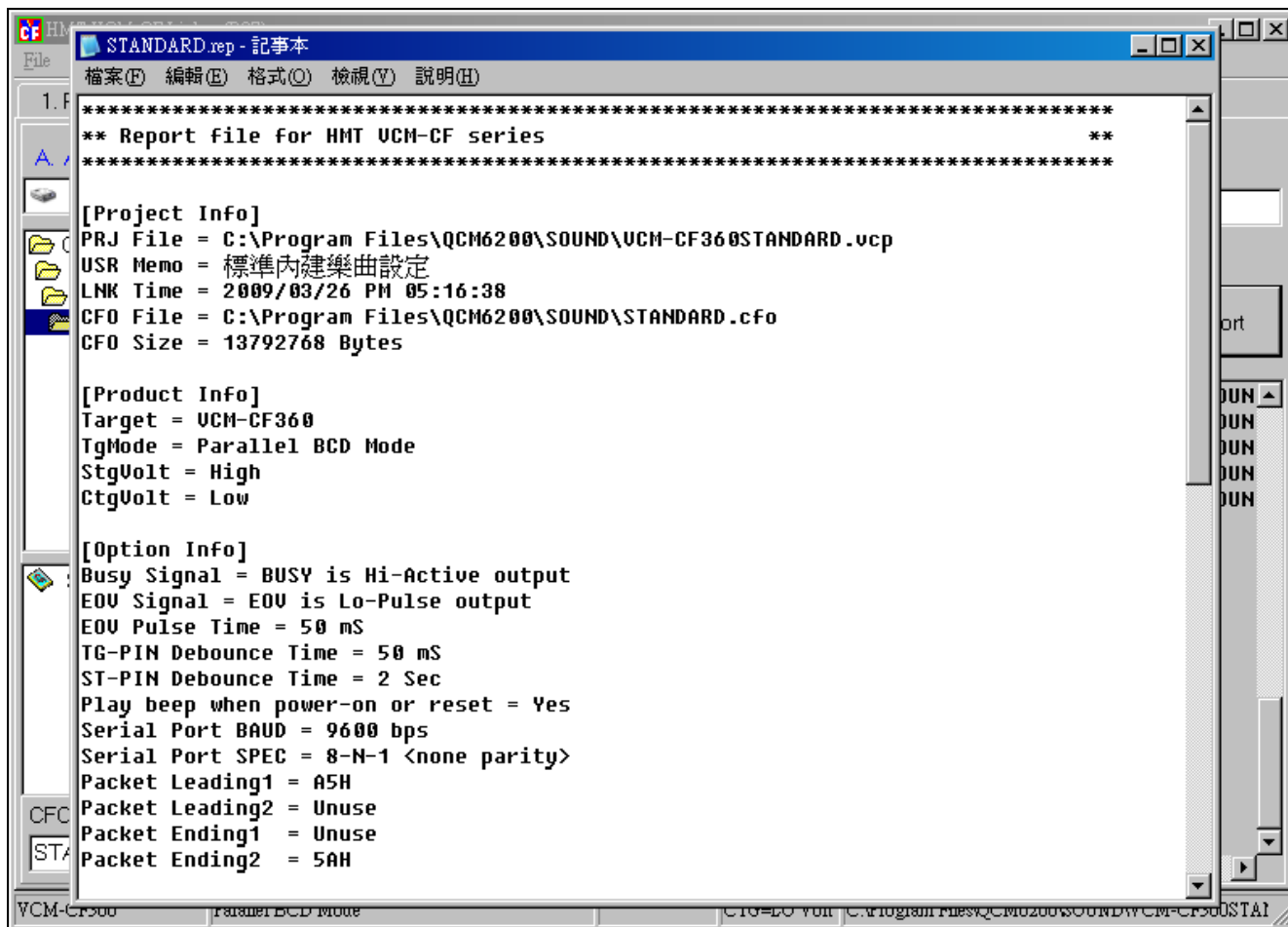
In this case, it needs at least 16MB CF CARD to save the CFO file
 [QCM-6200 Standard equipment is 64 MB]



Check the report

This STANDARD.CFO file can be found from [7. PROGRAM CFO] list and it needs to be downloaded to the file in CF CARD.

Click on "View Report" and it'll show the related information about this setting.

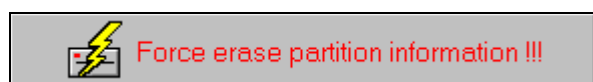
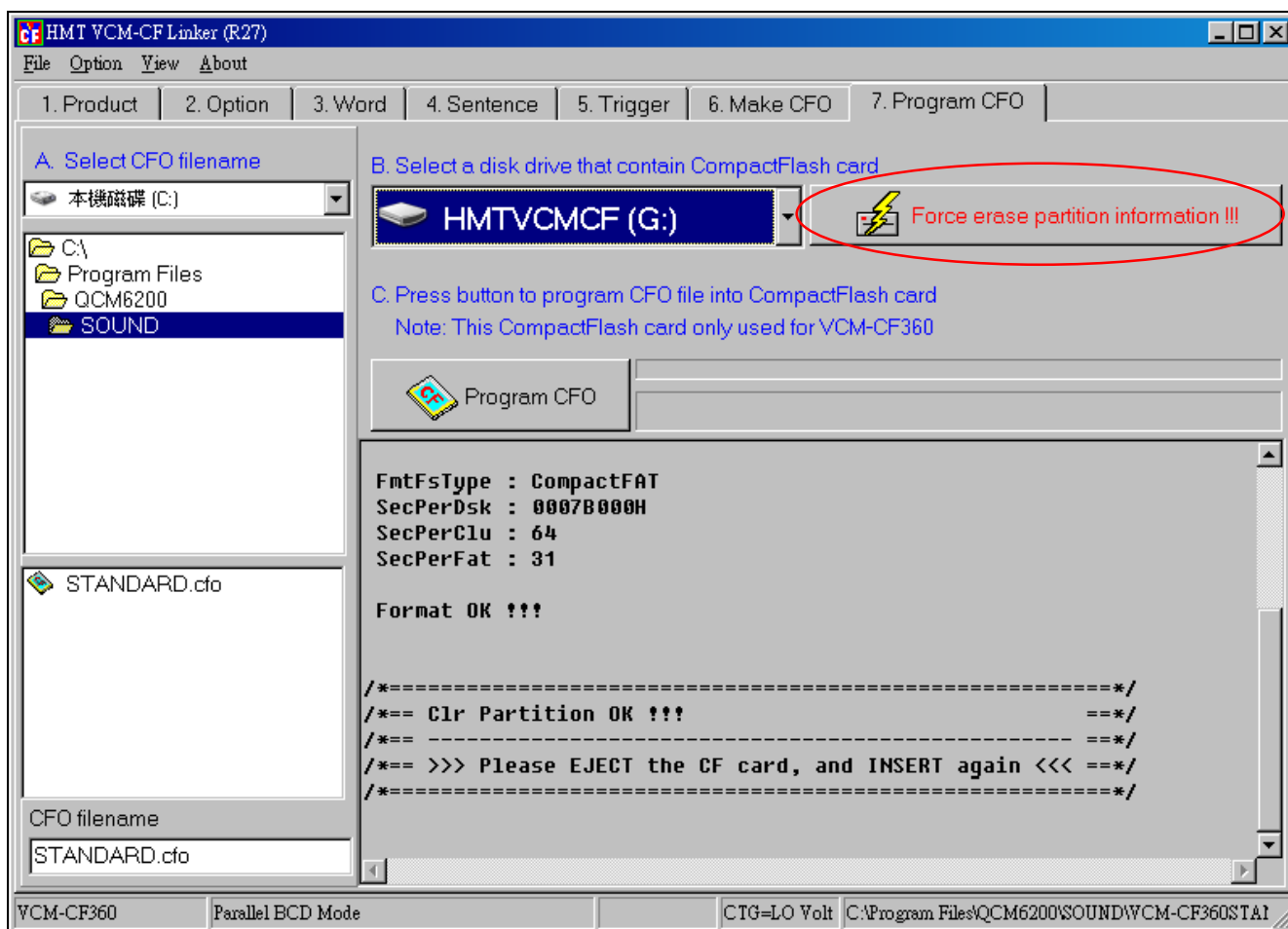


The screenshot shows a Notepad window titled "STANDARD.rep - 記事本" (STANDARD.rep - Notepad). The window contains a report for the HMT UCM-CF series. The report is structured into three sections: [Project Info], [Product Info], and [Option Info].

```
*****  
** Report file for HMT UCM-CF series **  
*****  
  
[Project Info]  
PRJ File = C:\Program Files\QCM6200\SOUND\UCM-CF360STANDARD.vcp  
USR Memo = 標準内建楽曲設定  
LNK Time = 2009/03/26 PM 05:16:38  
CFO File = C:\Program Files\QCM6200\SOUND\STANDARD.cfo  
CFO Size = 13792768 Bytes  
  
[Product Info]  
Target = UCM-CF360  
TgMode = Parallel BCD Mode  
StgVolt = High  
CtgVolt = Low  
  
[Option Info]  
Busy Signal = BUSY is Hi-Active output  
EOV Signal = EOV is Lo-Pulse output  
EOV Pulse Time = 50 mS  
TG-PIN Debounce Time = 50 mS  
ST-PIN Debounce Time = 2 Sec  
Play beep when power-on or reset = Yes  
Serial Port BAUD = 9600 bps  
Serial Port SPEC = 8-N-1 <none parity>  
Packet Leading1 = A5H  
Packet Leading2 = Unuse  
Packet Ending1 = Unuse  
Packet Ending2 = 5AH
```

2.1.7 Program CFO

Select the number of the CF Reader. Then click on “Program CFO” to start programming. Write the CFO file into CF memory card. When a mistake is found, click on “Force erase partition information”. Then clear the content from the CF card.

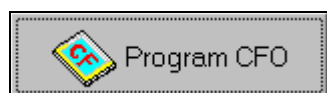
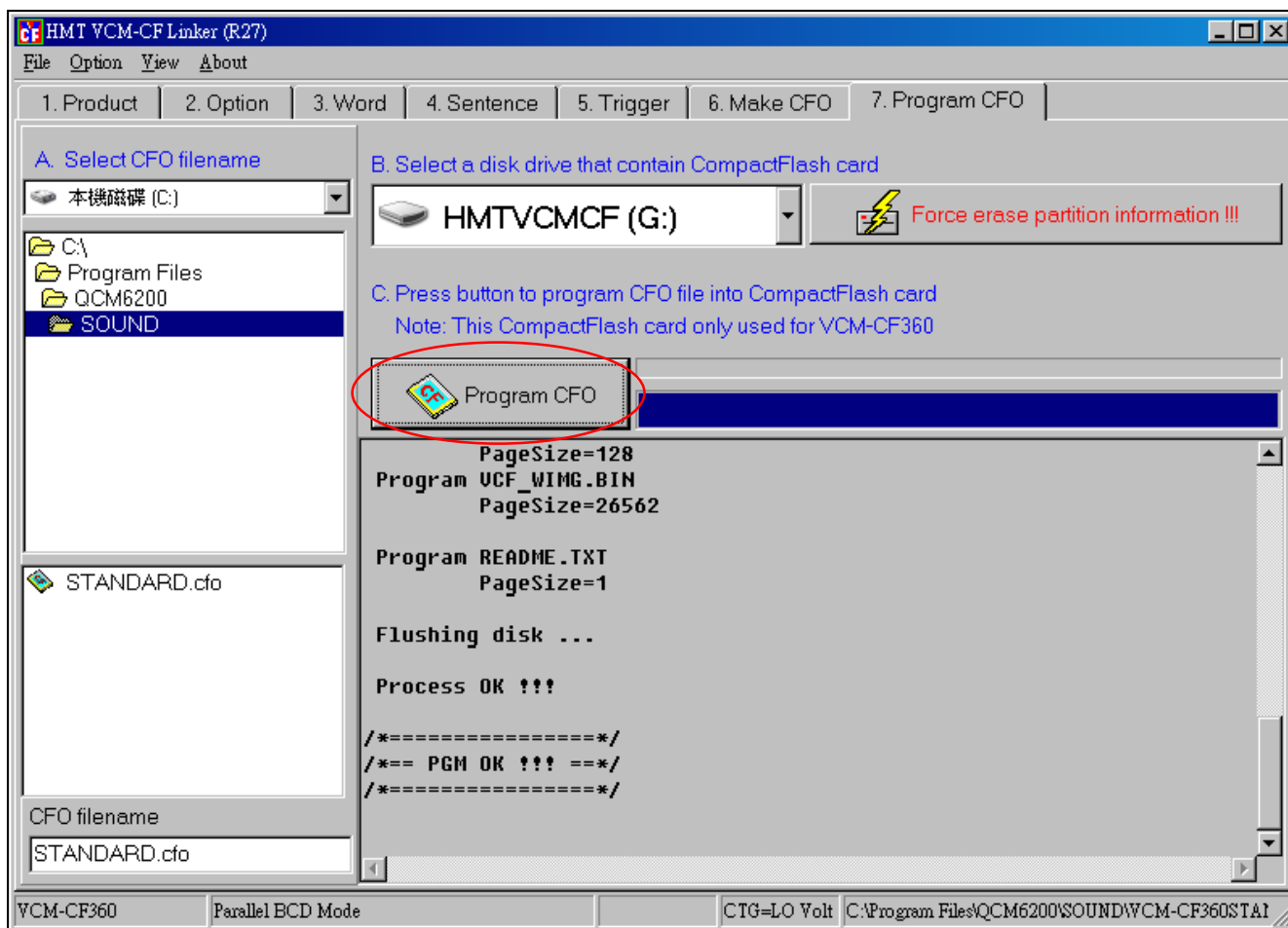


Clear partition information from CF memory card

* Newly add an example bell-BELL-7: ⑤ Place the CF CARD in a card reader, saving the files. (Format the CF CARD before saving)

[Warning!!] It's a must to use this program to download the information from CFO to CF memory card.

Do not just copy the file as what we do to other files on the computer operation!!!



Start to download the information from CFO to CF memory card

When the download is finished, plug the CF CARD back to VCM-CF360 VOICE MODULE. Follow the commands from the LCD front panel to set the schedules.

2.1.8 VCM-CF Series Malfunction Alarm

Long beep	Short beep	Management
5	3	The chipboard is out of function. Please send back to repair.
4	3	Please check if CF Memory Card is off or there's no CF Memory Card inside.
3	3	CF Memory Card content is wrong. Please restore the content.
2	3	CF Memory Card content is wrong. Please restore the content.
1	3	CF Memory Card content is wrong. Please restore the content.
3	4	CF Memory Card content is wrong. Please restore the content.
2	4	CF Memory Card content is wrong. Please restore the content.
1	4	CF Memory Card content is wrong. Please restore the content.

Warning!! The content of CF Memory Card has to be written via the program- 7.Program CFO from VCM-CF Link. Do not clone files and write other files by any other ways!!

2.1.9 VCM-CF Series Storage Voice Length Measurement

1). 8 BITS

CF CARD capacity X 1024KB / sampling rate = ??? seconds

Ex : CF CARD 256MB applies 44.1KHZ, 8BITS

$$256 \text{ X } 1024\text{KB} / 44.1\text{K} = 5944 \text{ seconds}$$

***The datum in red means different capacity of CF CARD and different sampling rate. These two factors will affect the length of the storage. ***

2). 16 BITS

CF CARD capacity X 1024KB / sampling rate = ??? seconds (8BITS) / 2 = ??? seconds (16BITS)

Ex : CF CARD 256MB applies 44.1KHZ, 16BITS

$$256 \text{ X } 1024\text{KB} / 44.1\text{K} = 5944 \text{ seconds (8BITS)} / 2 = 2972 \text{ seconds (16BITS)}$$

**The length measurement of voice needs to deduct the memory taken by the header of CF- CARD firstly.

2.2 TRUEWAVE Voice Edit Software Instructions



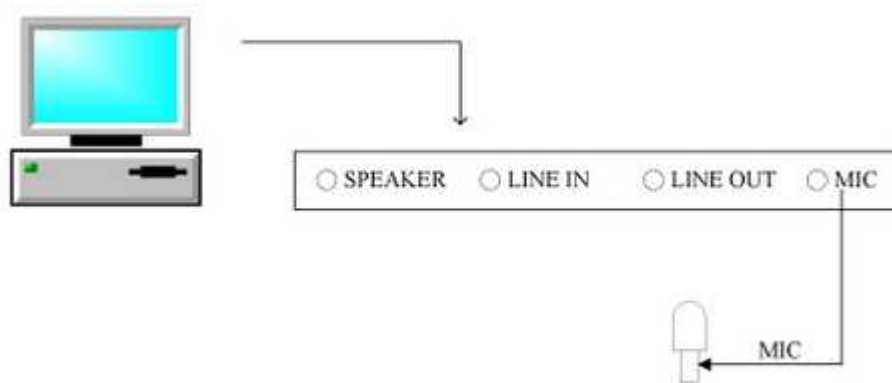
TrueWave Voice Edit Software Instruction:

2.2.1 Voice sources can be obtained from 3 types of methods below:

1. Voice files from CDs
2. Connect to the PC, record the voice source directly via the microphone. See Diagram (A)
3. Transform the files in WAV, VOC, MP3 formats into 8 bits PCM by programming

#Attention :

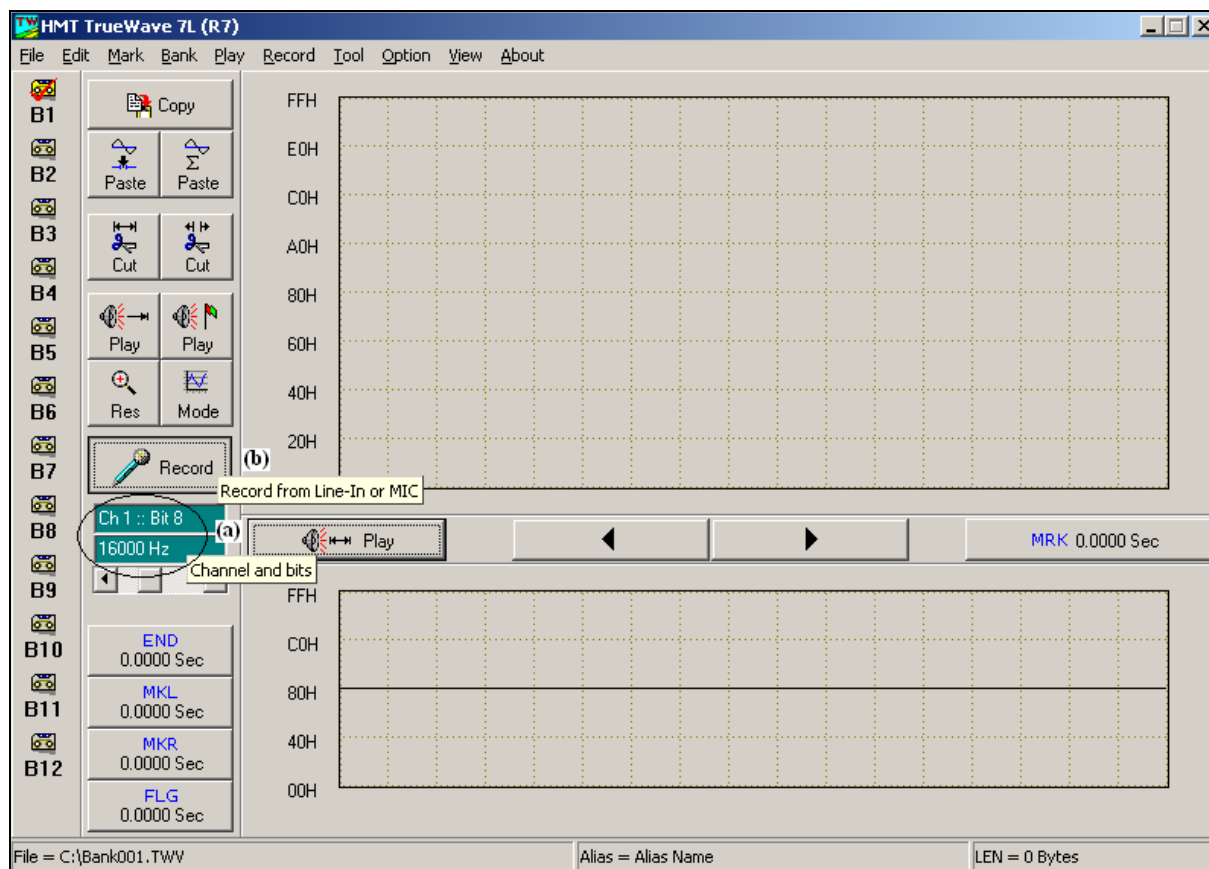
- Before recording, use the mixer software from the Sound Card to adjust the volume. Then LINE IN or MIC. Or turn on the CD
- When use the microphone from PC, please close to the microphone and avoid “noises”. Speak louder enough. Do not adjust the position of the microphone or the noises will happen during the recording.



- To make the recorded files sound better, please use a voice program(software) to eliminate the noises.

*The following is the example of the voice source from TAPE or CD player via PC:

Diagram (1)



Step 1 : Check the connection between computer and playback equipment.

Step 2 : Edit via TrueWave software to proceed voice recording and editing.

2.2.2 Voice Record

Step 3 : Select the sampling rate. Please see (a) in diagram (1).

Step 4 : 1.Left click on "Record" button such as (b) in diagram (1).

2.Then "Record" window appears. See diagram (2).

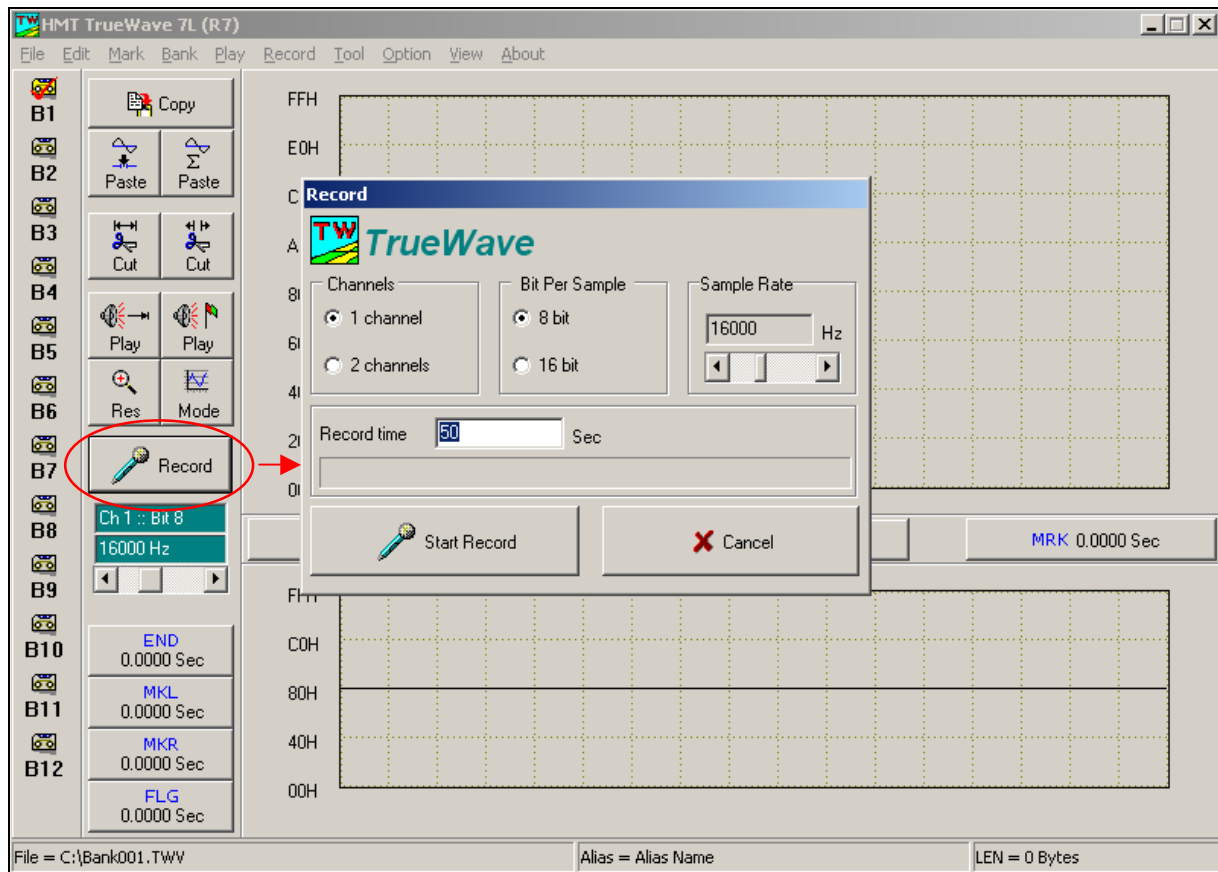
Enter the length of the recording time (XX seconds). This example is 50 seconds long.

Step 5 : Record a period of mute first. If any noises are found, please remove them and then go to the next step.

Step 6 : Click on "Start Record" and then click on "PLAY" key. The voice source will be recorded onto the computer. In Diagram (3). "ESC" key can stop recording. Click on (a) to hear the voice source.

[Note] After the voice source recording, users can edit the files in the "Bank"s (B1~B12).

Diagram(2)



Diagram(3)

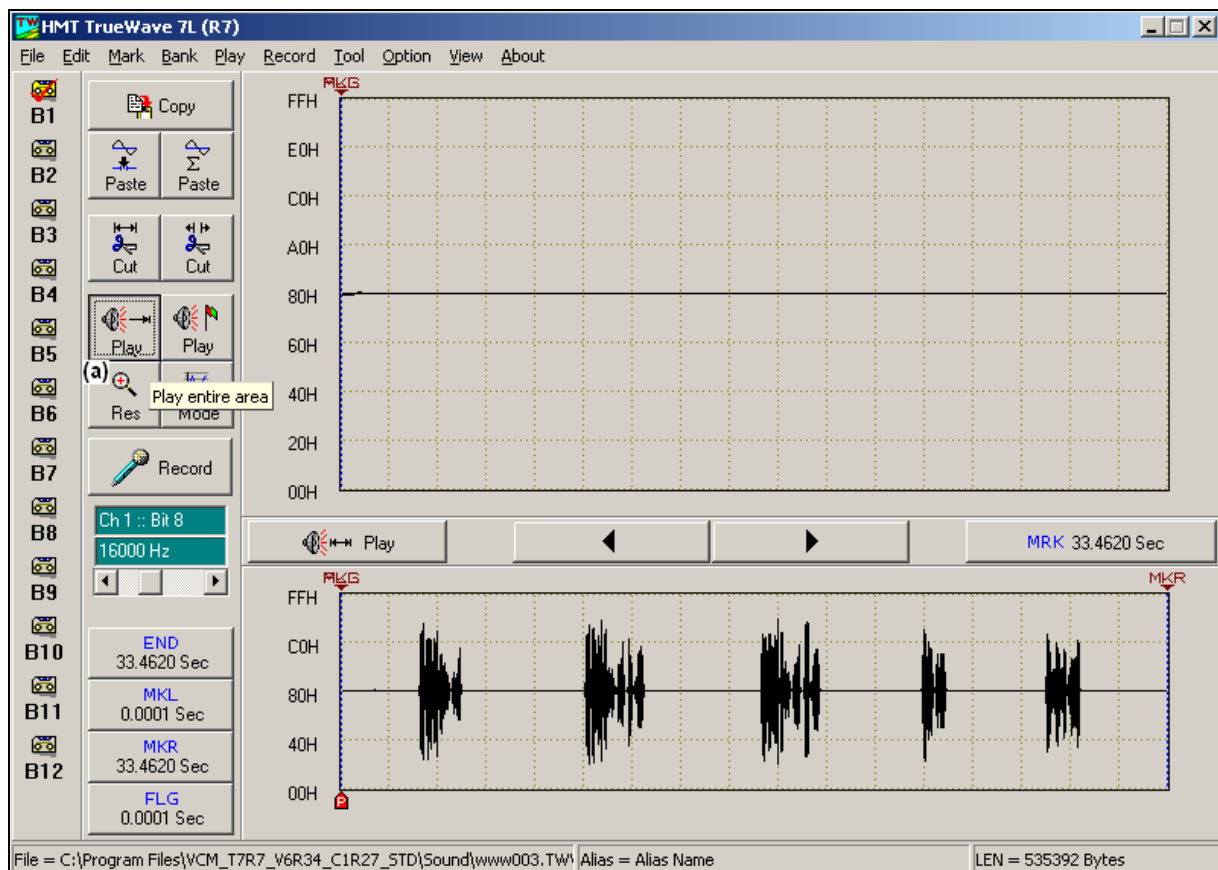
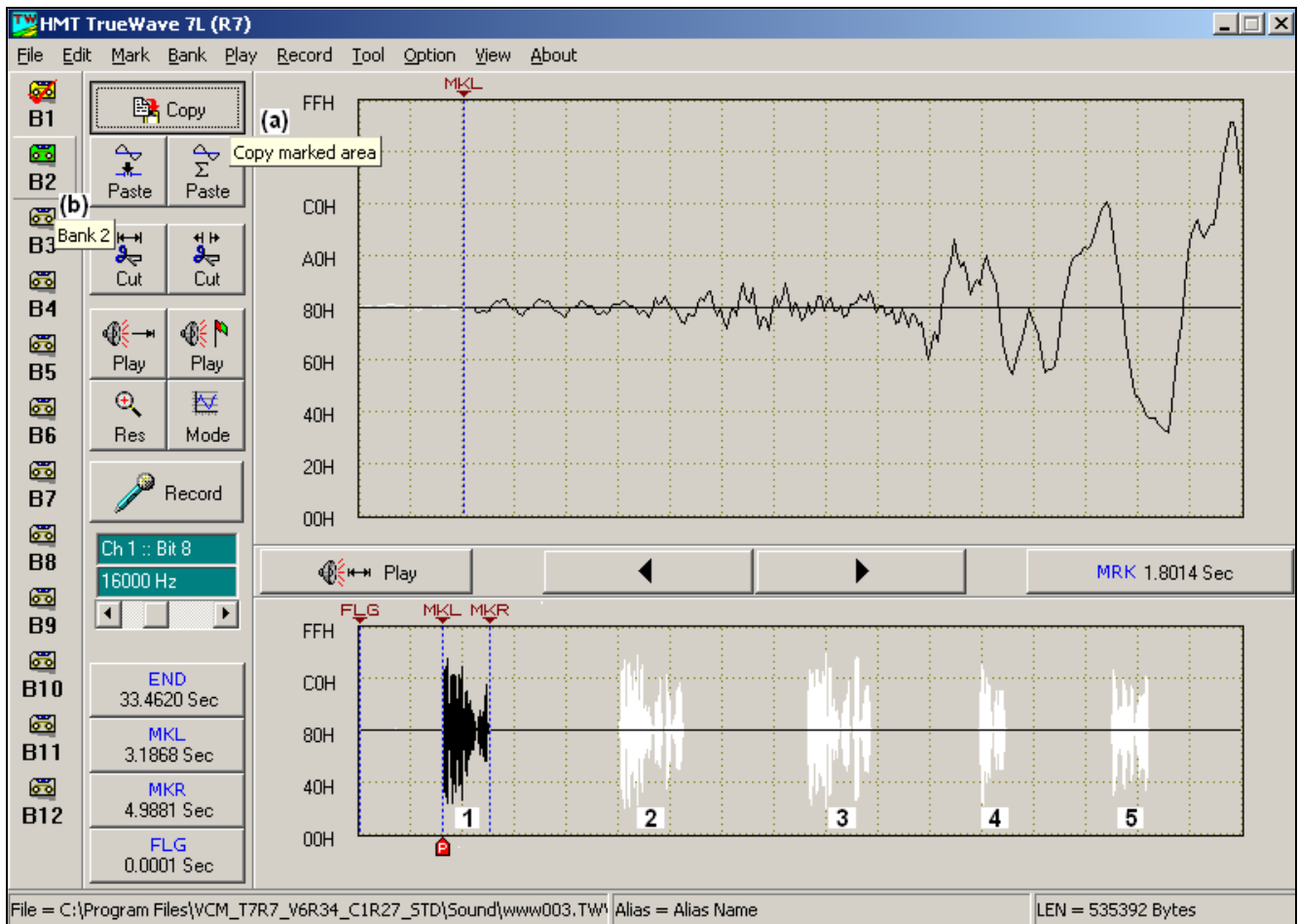


Diagram (5)



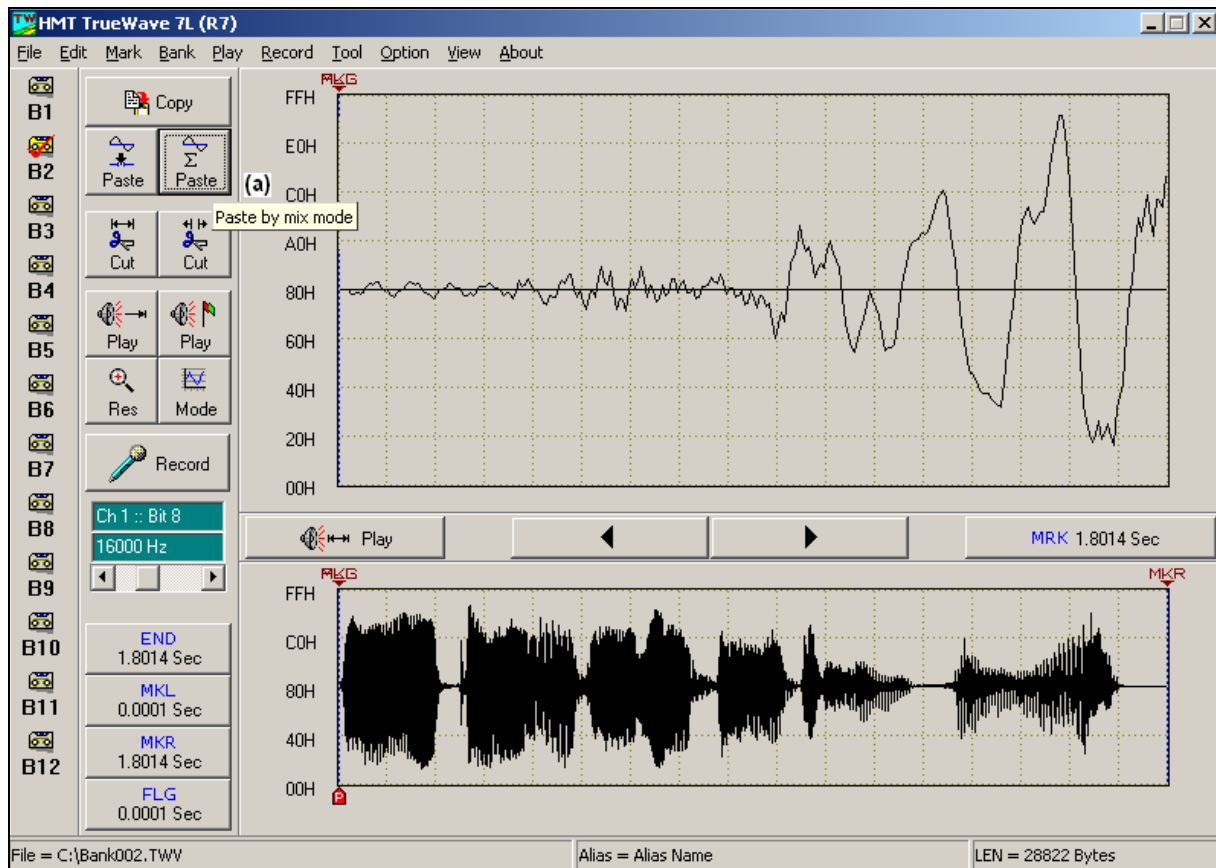
2.2.4 Sentence Copy

Step 8 : Copy the marked area to edit in other banks

(This example is to copy the voice sentence from Bank1, and then to place it in Bank2 for editing and saving files.)

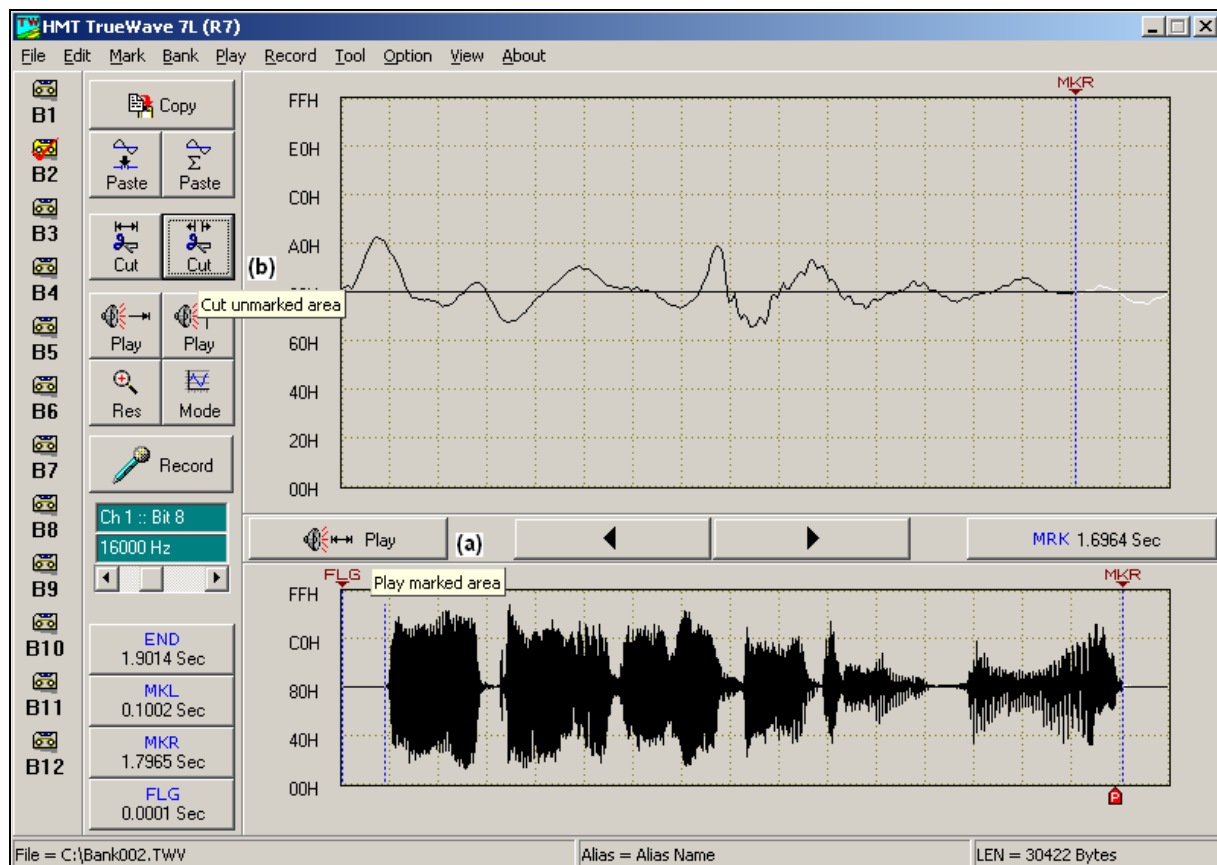
1. To click on “Copy “ button - (a) on the diagram (5).
2. To click on “B2” button - (b) on the diagram (5). Select a Bank. (This example is Bank 2). Then, users can edit a new voice in Bank2, a blank edit zone.

Diagram (6)



3. Click on “Paste “ button - (a) on the diagram (6).
The copy of No.1 voice sentence will be put in Bank 2.
Click on the “ Play” button to hear the voice.

Diagram (7)



2.2.5 Sentence Editing

Step 9 : Sentence Editing (refer to diagram(7))

- 1.) Use the marked method to mark the range of the preferred section from the voice source.
- 2.) Click on "Play(play marked area)" button - (a), for voice check.
- 3.) If the sounds perform well, click on "Cut(cut unmarked area)" button - (b). The voice will be trimmed like this in the diagram (8).

* In diagram(8) below, the No.1 voice sentence is done.

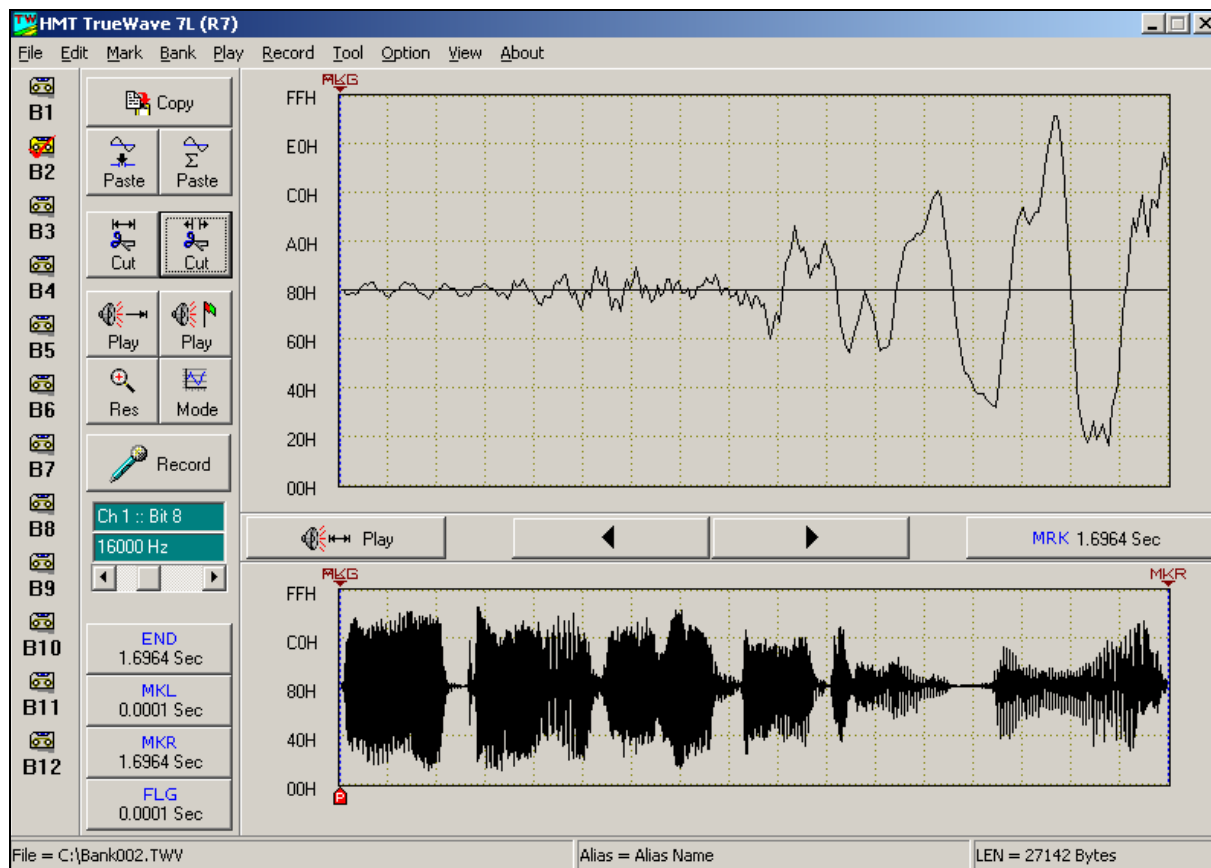
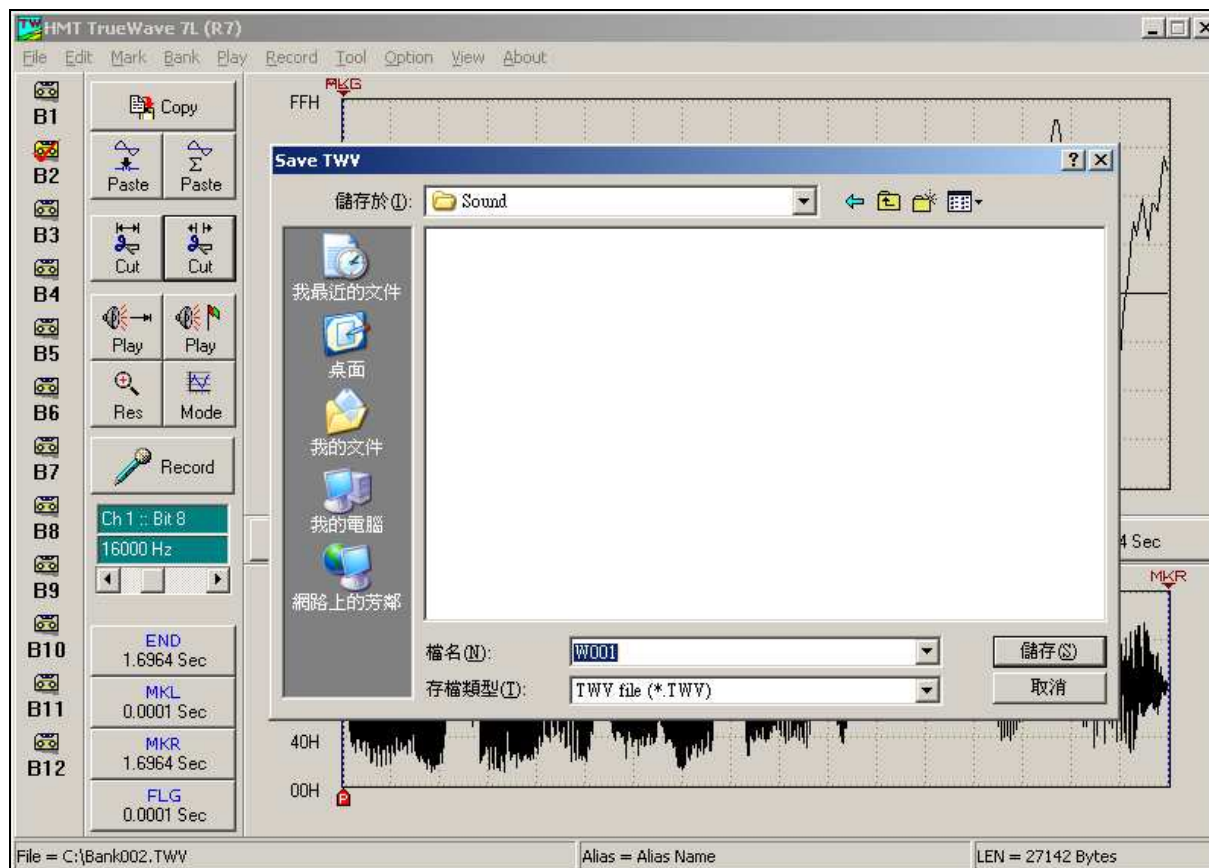


Diagram (9)



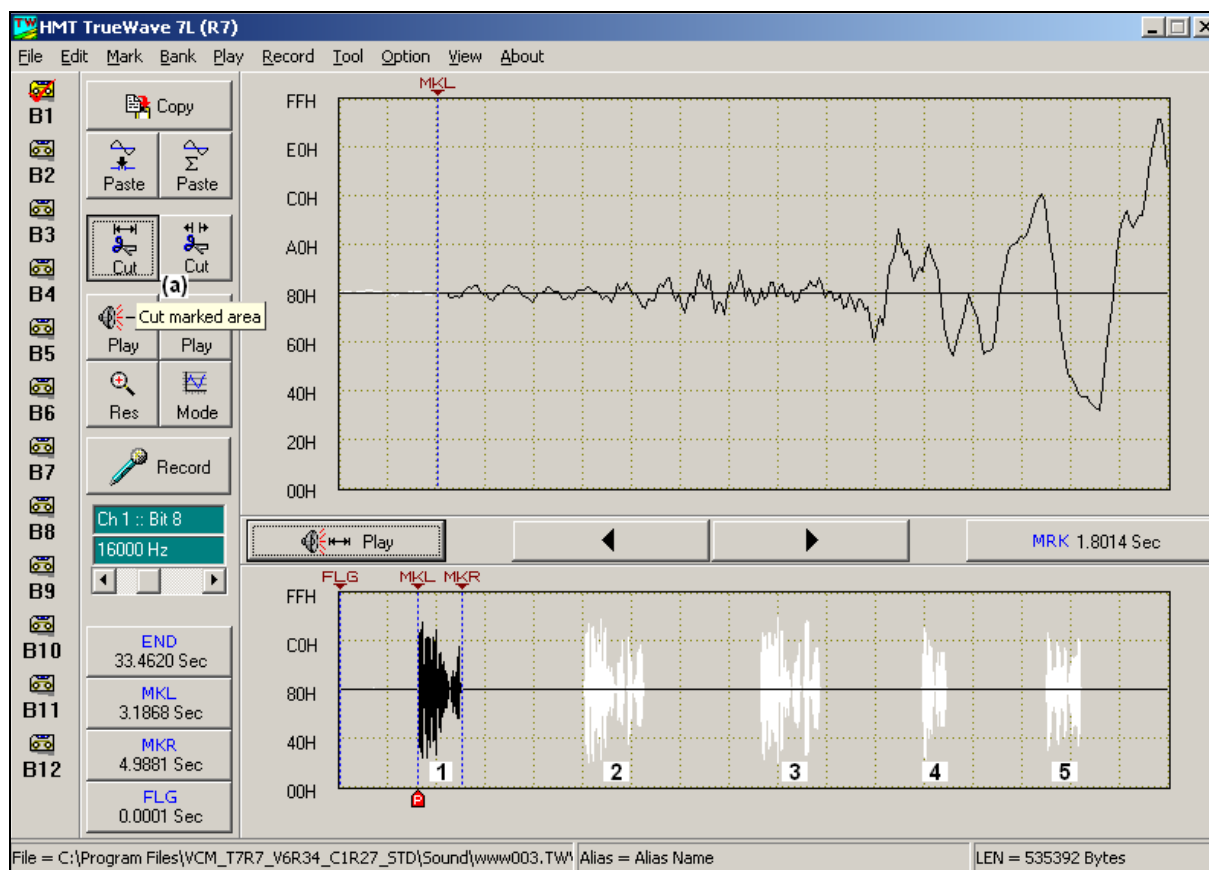
2.2.6 Save

Step10 : Save

Select “save as new name” from the function bar “File “. Enter a file name and then save.

The file name is W001.twv in this example. See diagram (9).

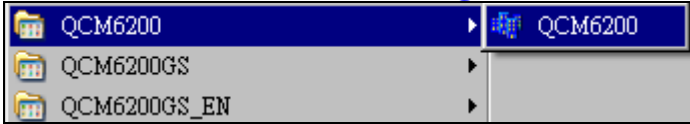
Diagram (10)



Step 11: Refer to the steps (from Step6 to Step10) to copy and edit the rest segments in order

- * To click on "Cut(cut marked area)" button, (a)in the diagram (10). Delete the first segment of the voice. Then edit and save the following voice segments in order.
- * After all of the voice segments have been edited and saved in PC, the next step is to save the voice files onto the CF Card via the CF-Linker software. Please refer to the step-example manual to make CFO files for CF Card saving method.

3 SCHEDIT Schedule Setting Software Instructions



QCM-6200G can support SCHEDIT software. It can synchronize time and download by connecting to PC, making the system more flexible and efficient. #Example file, SAMPLE.QSH, can be found in the catalog of SCHEDIT for testing.

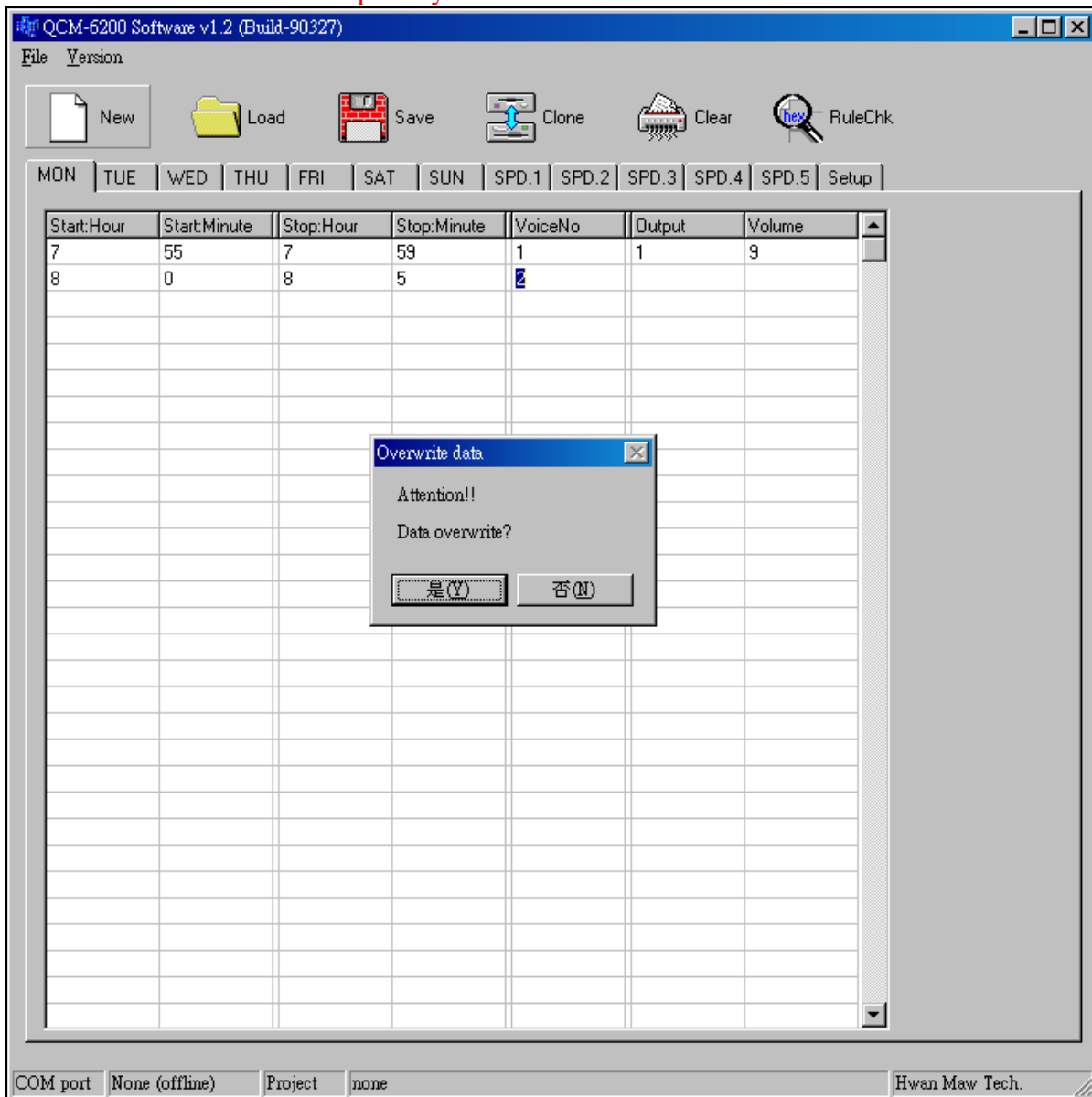
3.1 Operation Menu:

2. File : New/Load/Save
3. Version : Chinese/English

3.2 **New:** Click on “New” icon from the pull-down menu to set up a new schedule. Every new file will cover the existing one. There’ll be a warning before overlapping! When reopen a schedule, it will cover the existing one or the one that is being programmed. Double click on the left key to key in contents in the schedule. 80 schedules are available on a day. To delete all the data in a row, please right click on the selected row to delete. 24-hour time format is the valid form for schedule starting and ending time setting.



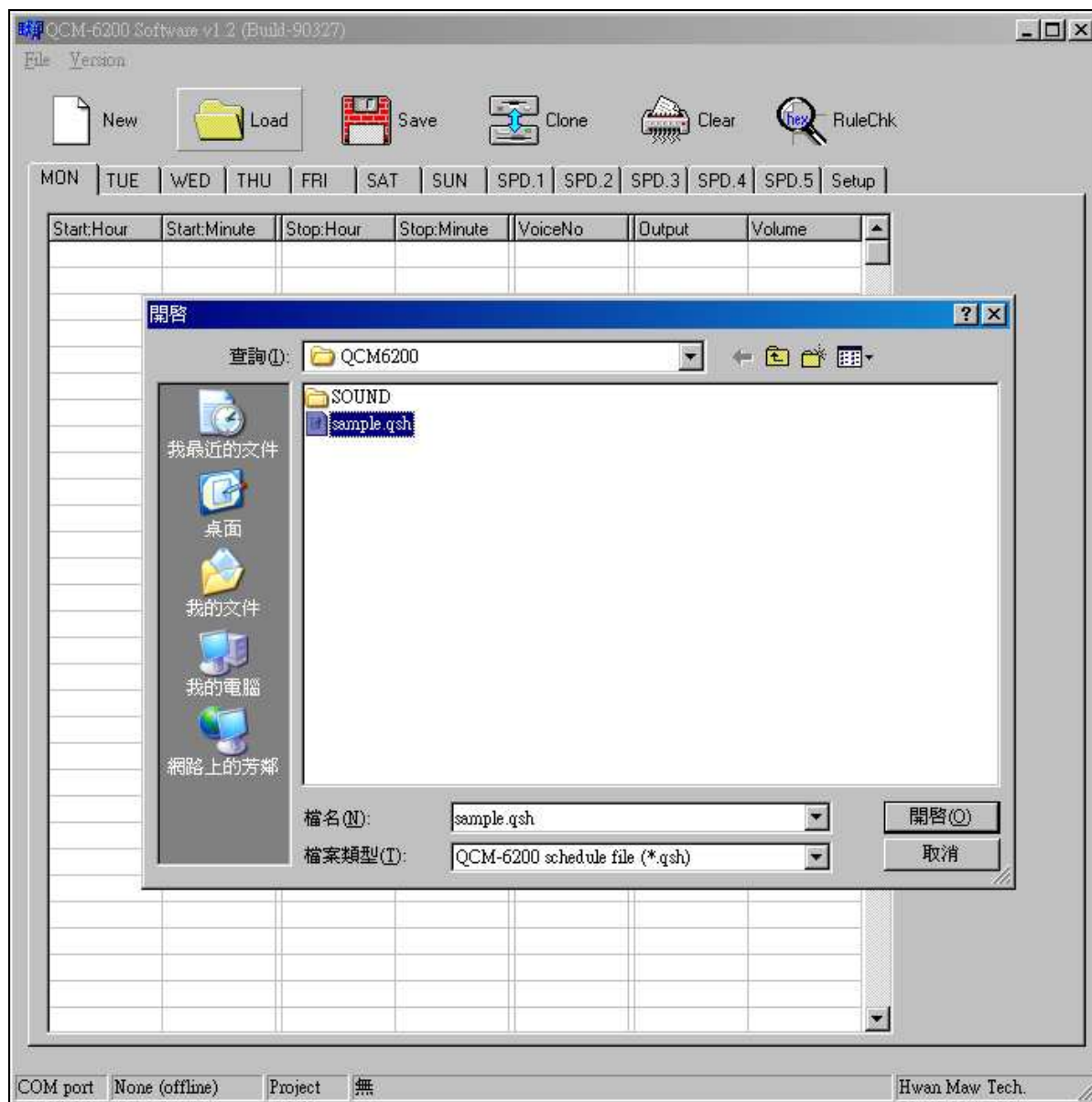
* **Built-in 6 melodies.** To add more melodies, please program new cfo files via CF-LINKER software and save them onto a CF CARD!! The max. quantity for melodies is 99 ones.



3.3 Load

Click on “Load” icon to open the saved file (QSH file is a setting file). There’ll be a warning before overlapping! The loaded file, QSH file, will cover the existing file or the one that is being programming.

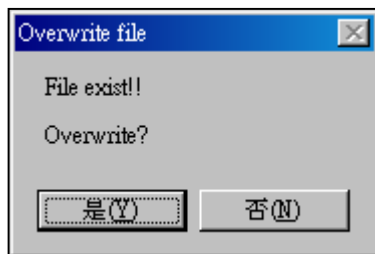
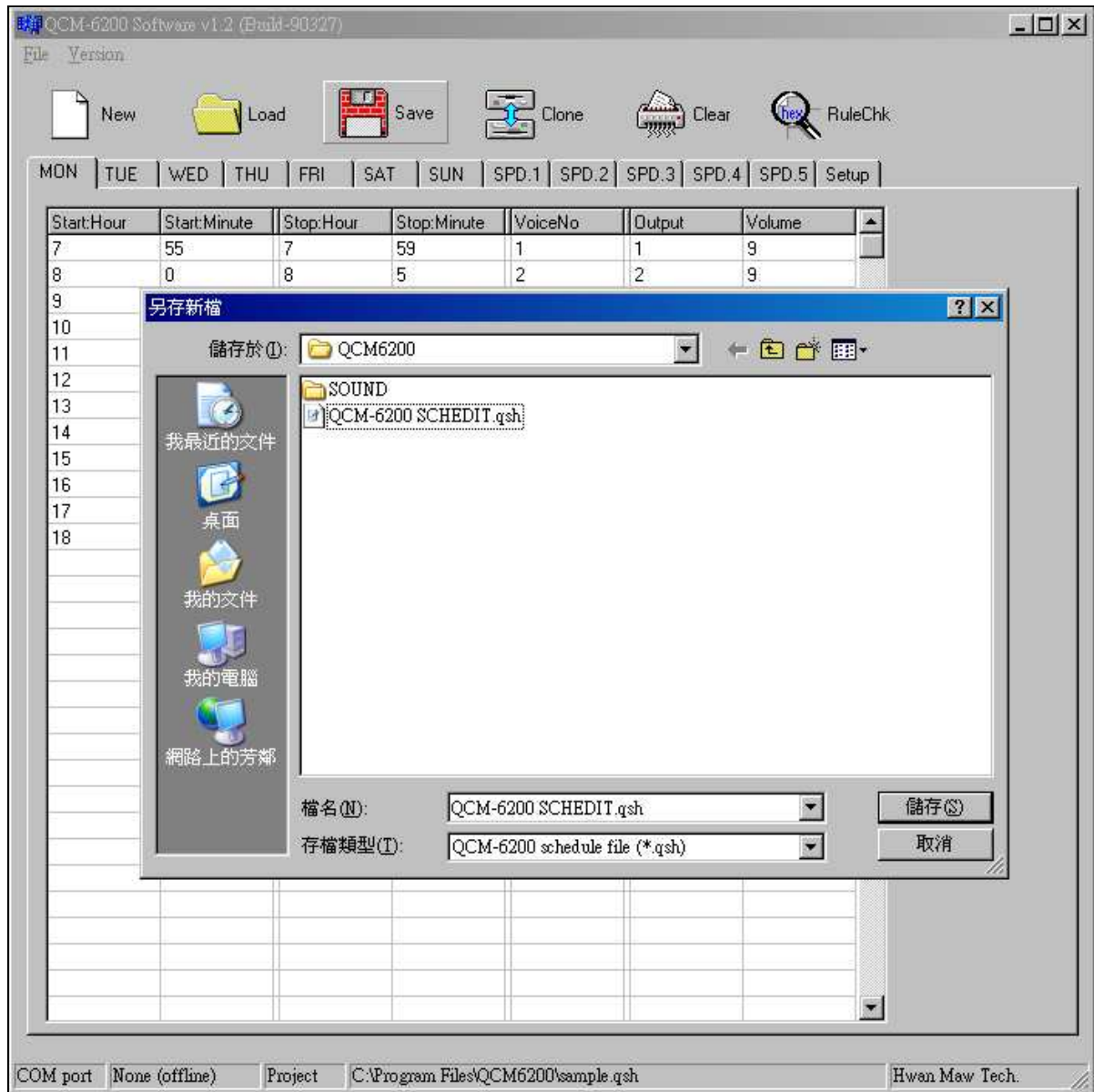
#Example file: Open the SAMPLE.QSH. file from the folder in SCHEDIT



*The extension name for QCM-6200G settings : .qsh

3.4 Save

When the schedule programming and related settings are done, click on “Save” icon to save the file. Able to save this file as a new one, or save it by covering the previous/existing file!

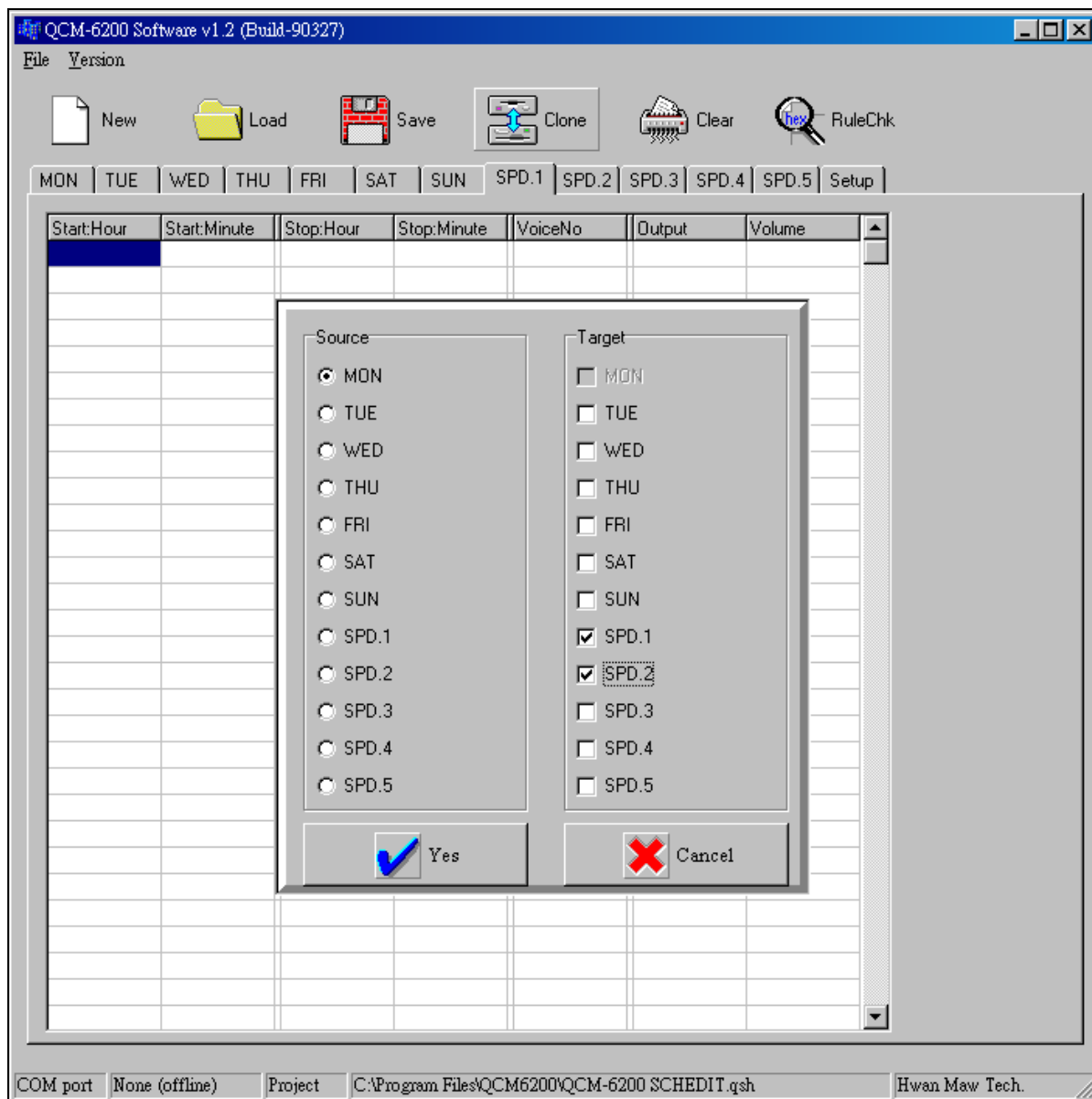


*When revise the previous file saved before, an “Overlay file” dialogue box will be shown to ask the user whether to cover the previous file or not!

3.5 Clone

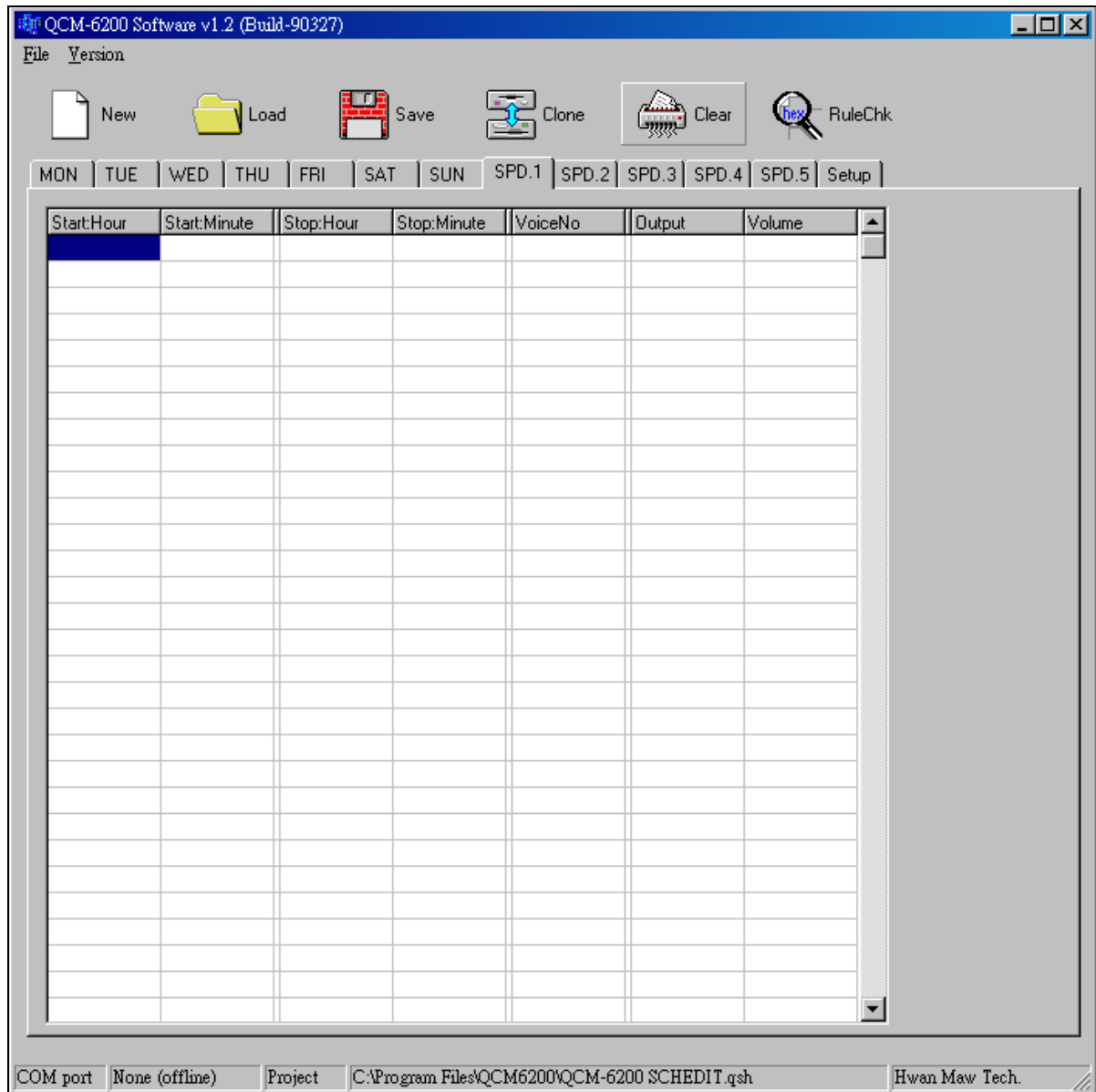
Click on “Clone” icon to open the setting box. To clone schedules by request, please open the clone data box. Tick one item (select one weekday) from the source box and some items (select more than one weekdays) from the target box! Then click on “Yes” key to make the weekdays from the targets have the same schedules as the weekday from the source box.

*As the example below: If users want to have MON schedules on SPD.1 and SPD.2, please tick SPD.1 and SPD.2 from the Target area and tick MON from the Source area. Then click on “Yes” button to complete this step!



3.6 Clear

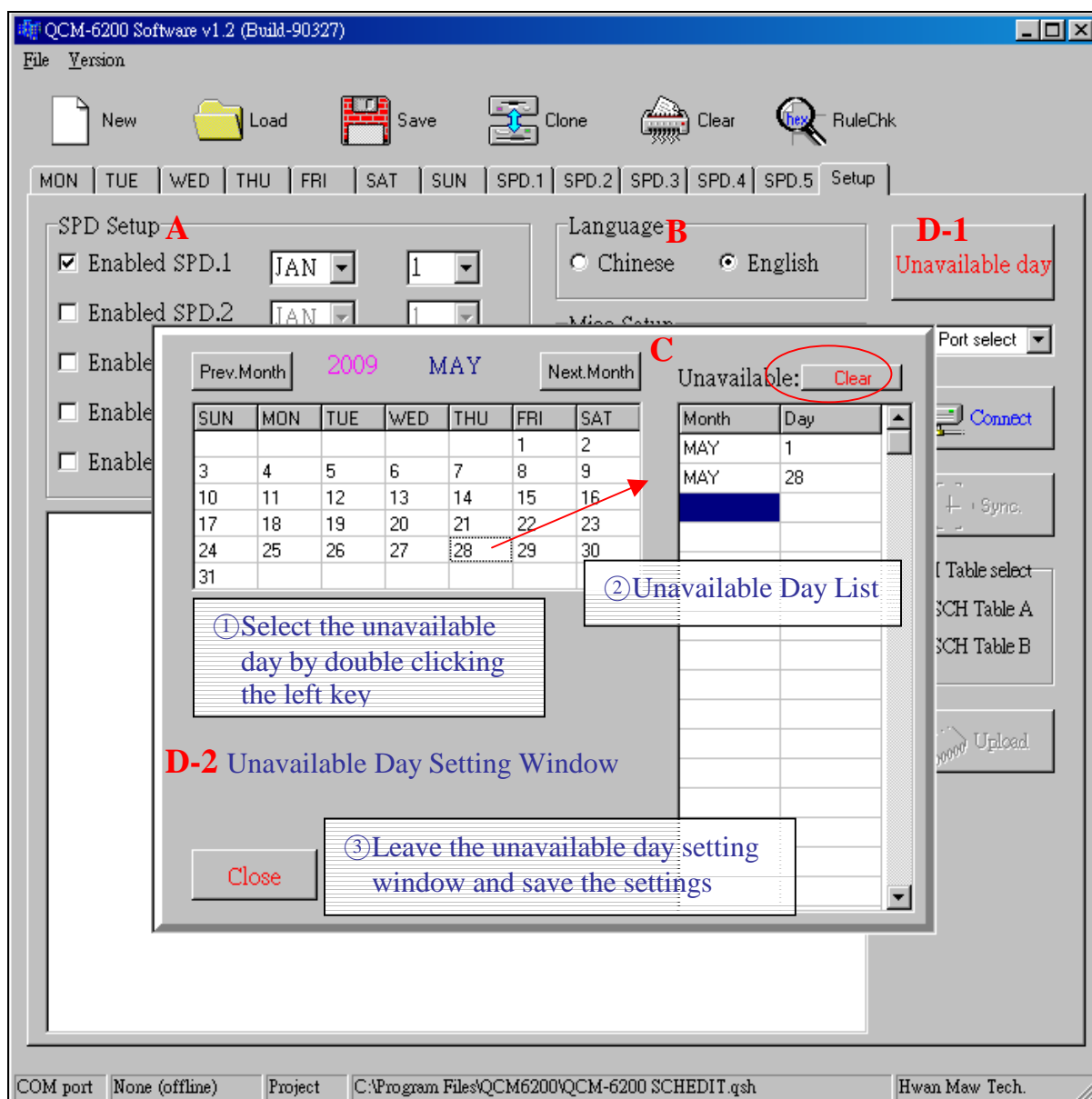
Please select the day which is planned to be deleted. Then click on “Clear” icon to **delete all the schedules on that day**.



*As the example shows-Clear all the schedules on “SPD1” immediately

3.8 System Setting

When the schedule arrangements are done, please set the related settings here and transmit them to QCM-6200G.



A SPD Setup : Select the date from the pull-down menu. Leave blanks if no SPD.

B Language : Chinese/English version for QCM-6200G system interface setting

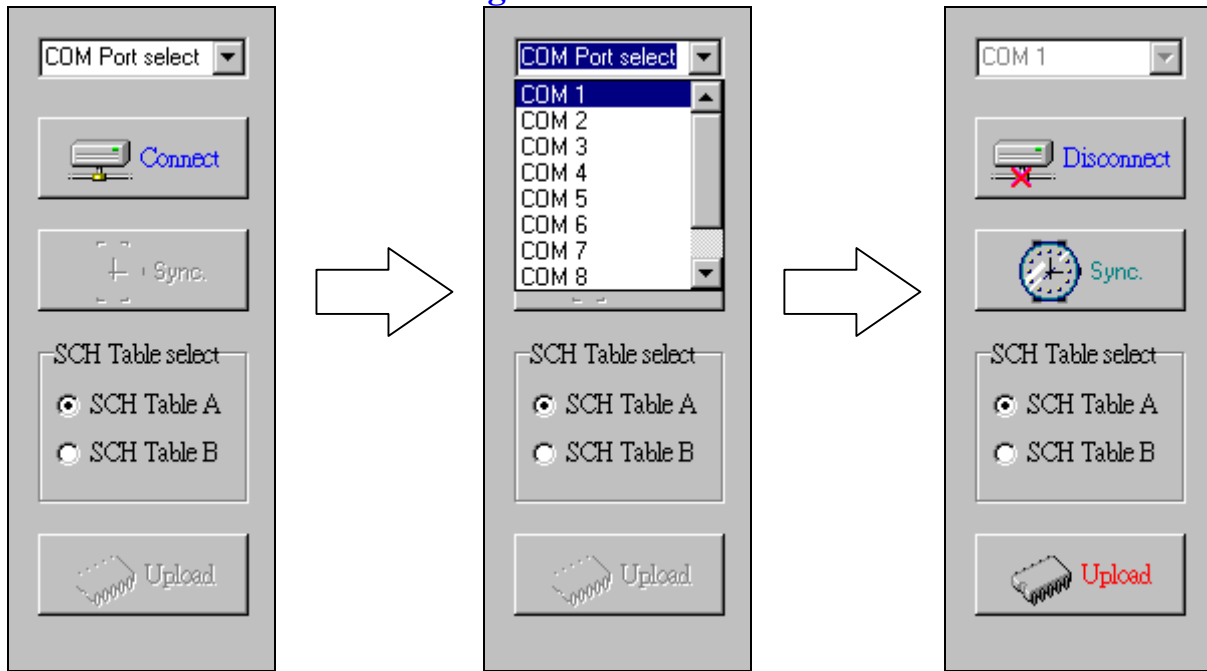
C Other Settings : time zone, GPS synchronization, Node ID (Transmit the ID via PC to QCM-6200G system).

D-1 Unavailable Day Setting : Open the unavailable day setting window to arrange the dates for unavailable day.

[Note] Click on “Clear” icon (in the red circle) to “clear all the schedules” on unavailable day immediately!!

To delete schedules on a single date, please select the preferred date. Then single click on the right key to complete this step.

3.9 Connection & Download Setting



1. Select the COM port
2. When the connection is done, “Sync.” & “Upload” functions will be valid.
3. Download the schedules: Name the schedule data (Weekday schedule, SPD schedule and SPD date setting) as Schedule A or Schedule B in QCM-6200G system!
- *Before synchronization and download, please enter the main menu→Transmission from the front LCD panel on QCM-6200G!
4. Sync. (Synchronization): Synchronize date and time in QCM-6200G with them in PC
5. Upload: When the uploading PC settings to QCM-6200G is done, QCM-6200G will reset itself and return to the standby mode!

Message Box:

Message box	Descriptions
>>>Open COM1<<<	Connection Msg.
>>>Close COM1<<<	Disconnection Msg.
*** Date & Time Sync. in QCM-6200*** ==> Send data block: 1,CRC = 99 <= ==>Date & Time Sync. Done <=	Date/Time Synchronization Msg.
Check rules in schedules..... Make “ROM” (a setting file)..... ***Updating QCM-6200 schedules*** =>Send data block: 1,CRC = 88 <= =>Schedules in QCM-6200 updated <=	Data Transmission
=>QCM-6200 respond timeout #1<=	Timeout Msg.