



# **VCM-CF Series Voice Module Operating Manual**

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# Catalogue

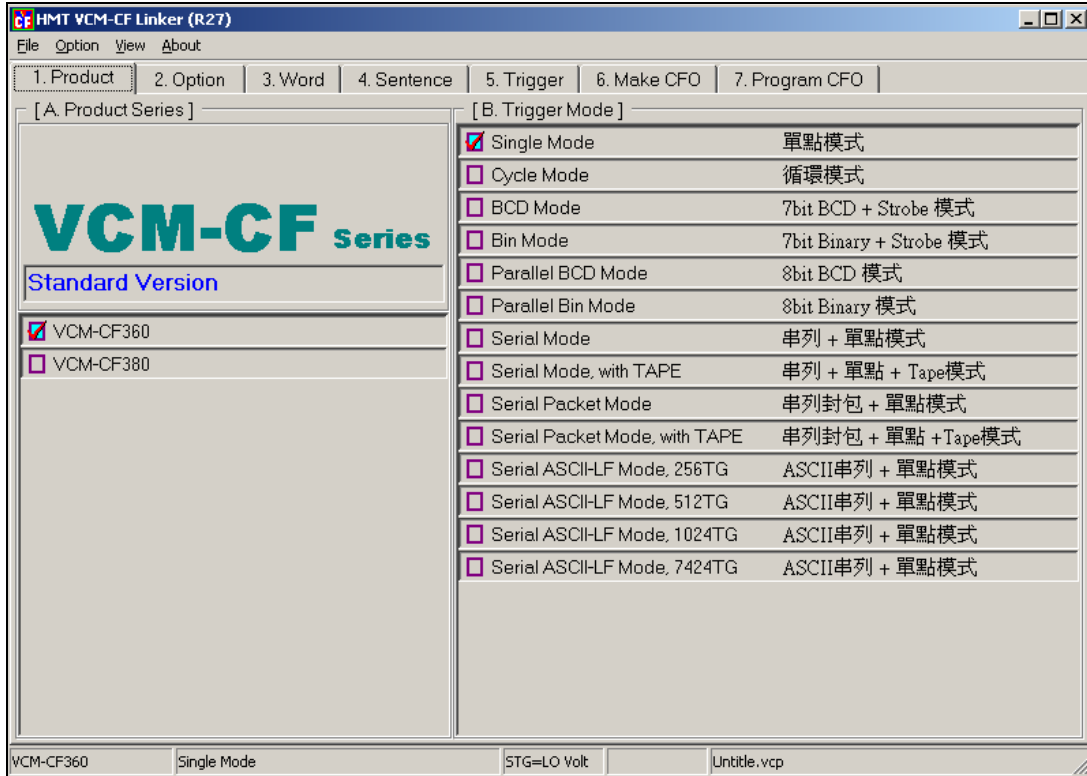
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## 1. Product Name and Trigger Mode Selection

### 1-1 VCM-CF360 Supportive Mode Selection



### 1-2 VCM-CF360 Trigger Mode

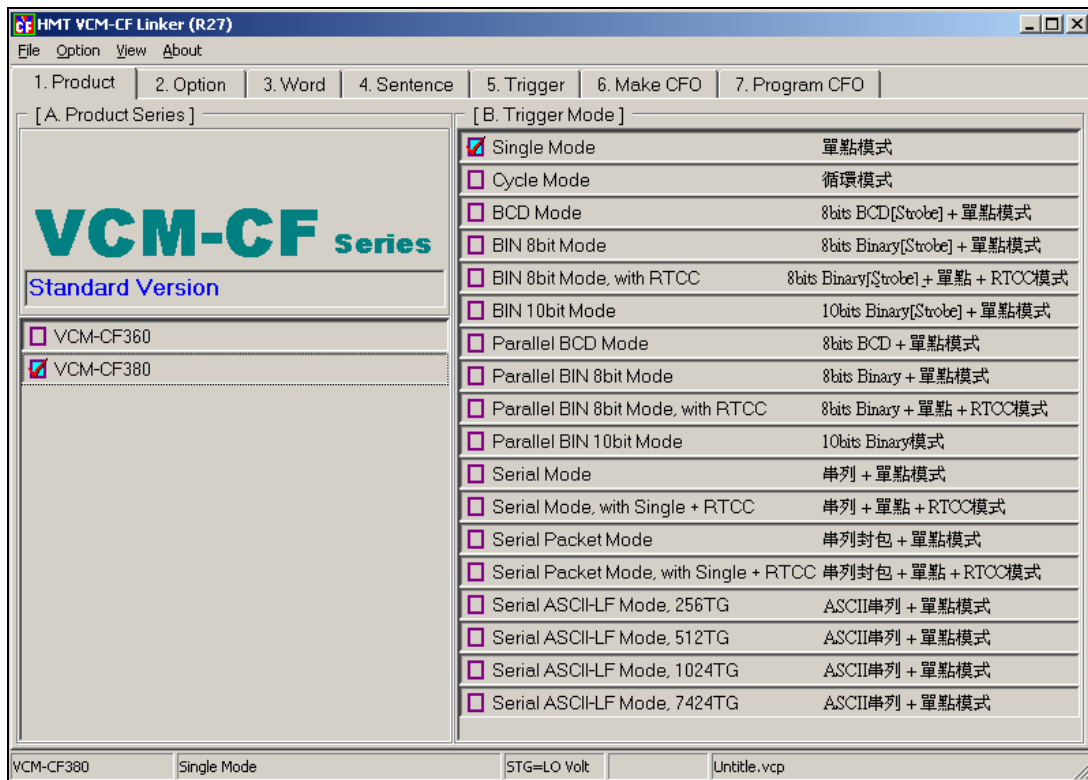
Trigger Mode	Trigger Pins	Trigger Pins	Trigger Pins	Total Msg.
	Msg.	Msg.	Msg.	
Single (Direct Single)	X0 - X7	--	--	8
	8	--	--	
Cycle (Direct Single Application)	X0 - X7	--	--	8
	8	--	--	
Bin (7 bit binary code with Strobe signal)	[X0 - X6] <X7>	--	--	127
	127	--	--	
Parallel Bin (8 bit binary code without strobe signal)	[X0 - X7]	--	--	254
	254	--	--	

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Trigger Mode	Trigger Pins	Trigger Pins	Trigger Pins	Total Msg.
	Msg.	Msg.	Msg.	
BCD (BCD code with strobe signal)	[X0 - X6] <X7>	--	--	80
	80	--	--	
Parallel BCD (BCD code without strobe signal)	[X0 - X7]	--	--	99
	99	--	--	
Serial (For TTL/RS-232 Level)	Rx	X0 - X7	--	263
	255	8	--	
Serial Packet	Rx	X0 - X7	--	263
	255	8	--	
Serial ASCII-LF, 256TG (Up to 256 messages)	Rx	X0 - X7	--	264
	256	8	--	
Serial ASCII-LF, 512TG (Up to 512 messages)	Rx	X0 - X7	--	520
	512	8	--	
Serial ASCII-LF, 1024TG (Up to 1024 messages)	Rx	X0 - X7	--	1032
	1024	8	--	
Serial ASCII-LF, 7424TG (Up to 7424 messages)	Rx	X0 - X7	--	7432
	7424	8	--	
Serial + Tape (Serial input with Tape Mode)	Tape	Rx	X0 - X3	291
	32	255	4	
Serial Packet + TAPE	Tape	Rx	X0 - X3	291
	32	255	4	

<Note1> If [X0 – X6] are 7-bit code, X6 means MSB and X0 means LSB.  
 If [X0 – X7] are 8-bit code, X7 means MSB and X0 means LSB.  
 Take <X7> as Strobe signal.

### 1-3 VCM-CF380 Supportive Mode Selection



### 1-4 VCM-CF380 Trigger Mode

Trigger Mode	Trigger Pins	Trigger Pins	Trigger Pins	Total Msg.
	Msg.	Msg.	Msg.	
Single (Direct Single)	X0 - X7	--	--	32
	32	--	--	
Cycle (Direct Single Application)	X0 - X31	--	--	32
	32	--	--	
Bin 8 bit (8 bits binary code with Strobe signal)	[X0 - X7] <X8>	X9 - X31	--	278
	255	23	--	
Parallel Bin 8 bit (8 bits binary code without strobe signal)	[X0 - X7]	X8 - X31	--	278
	254	24	--	
Bin 10 bit (10 bits binary code with Strobe signal)	[X0 - X9] <X10>	X11 - X31	--	1044
	1023	21	--	

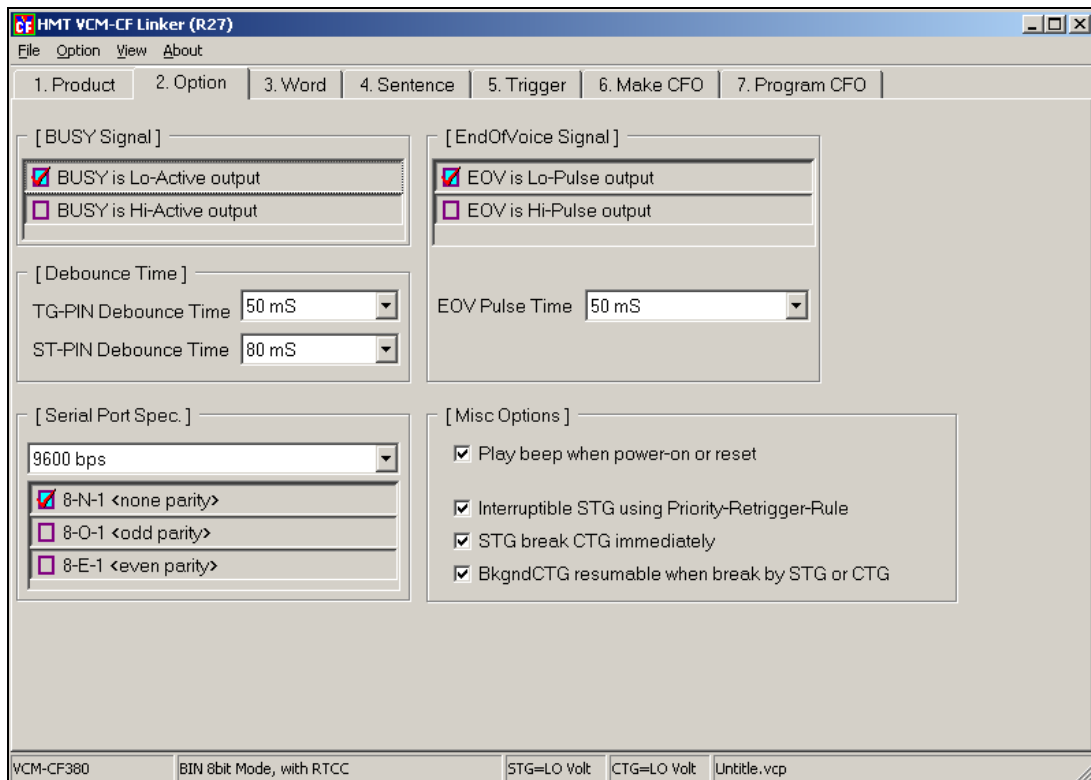
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Trigger Mode	Trigger Pins	Trigger Pins	Trigger Pins	Total Msg.
	Msg.	Msg.	Msg.	
Parallel Bin 10 bit (10 bits binary code without strobe signal)	[X0 - X9]	X10 - X31	--	1044
	1022	22	--	
BCD (BCD code with strobe signal)	[X0 - X7] <X8>	X9 - X31	--	123
	100	23	--	
Parallel BCD (BCD code without strobe signal)	[X0 - X7]	X8 - X31	--	123
	99	24	--	
Serial (For RS-232/TTL Level)	Rx	X0 - X31	--	287
	255	32	--	
Serial Packet	Rx	X0 - X31	--	287
	255	32	--	
Serial ASCII-LF, 256TG (Up to 256 messages)	Rx	X0 - X31	--	288
	256	32	--	
Serial ASCII-LF, 512TG (Up to 512 messages)	Rx	X0 - X31	--	544
	512	32	--	
Serial ASCII-LF, 1024TG (Up to 1024 messages)	Rx	X0 - X31	--	1056
	1024	32	--	
Serial ASCII-LF, 7424TG (Up to 7424 messages)	Rx	X0 - X31	--	7456
	7424	32	--	
Serial + Single + RTCC (Serial + Single with RTCC mode)	RTC	Rx	X0 - X31	415
	128	255	32	
Serial Packet + Single + RTCC (Serial Packet + single with RTCC Mode)	RTC	Rx	X0 - X31	415
	128	255	32	
TCC + BIN8 (RTCC mode +8 bits binary code with Strobe signal)	RTC	[X0 - X7] <X8>	X9 - X31	406
	128	255	23	

Trigger Mode	Trigger Pins	Trigger Pins	Trigger Pins	Total Msg.
	Msg.	Msg.	Msg.	
RTCC + Parallel-BIN8 (RTCC +8 bits binary without strobe signal)	RTC	[X0 – X7]	X8 - X31	407
	128	254	24	

<Note1>If [X0 – X7] are 8-bit code, X7 means MSB and X0 means LSB.  
 If [X0 – X9] are 10-bit code, X9 means MSB and X0 means LSB.  
 Take <X8> and <X10> as Strobe signal.

## 2. Option Settings



**BUSY Signal:** When VCM-CF is in Play condition, the output status of BUSY is:

Lo-Active output: When VCM-CF is in Play condition, the output of BUSY is Low.

Hi-Active output: When VCM-CF is in Play condition the output of BUSY is High.

**End Of Voice (EOV):** When VCM-CF finishes playing, the output status of EOV:

Lo-pulse output: When VCM-CF finishes playing, the output status of EOV is Low pulse.

Hi-pulse output: When VCM-CF finishes playing, the output status of EOV is High pulse.

**EOV Pulse Time:** To set the length of EOV pulse time (50ms – 500ms).



**Debounce Time:** To set the length of Debounce time for a marked input.

TG-PIN Debounce Time: Normal input Debounce time length. (30ms – 2 Sec)

ST-PIN Debounce Time: Strobe input Debounce time length. (30ms – 2 Sec)

**Misc Options :**

**Play beep when power-on or reset:**

Set whether to sound out “Beep-beep” or not when the machine turns on.

**Interruptible STG using Priority-Retrigger-Rule:**

Set whether to follow the Priority-Retrigger rule when two (or more than two) STG inputs(means single) to be triggered and its attribute is Interruptible.

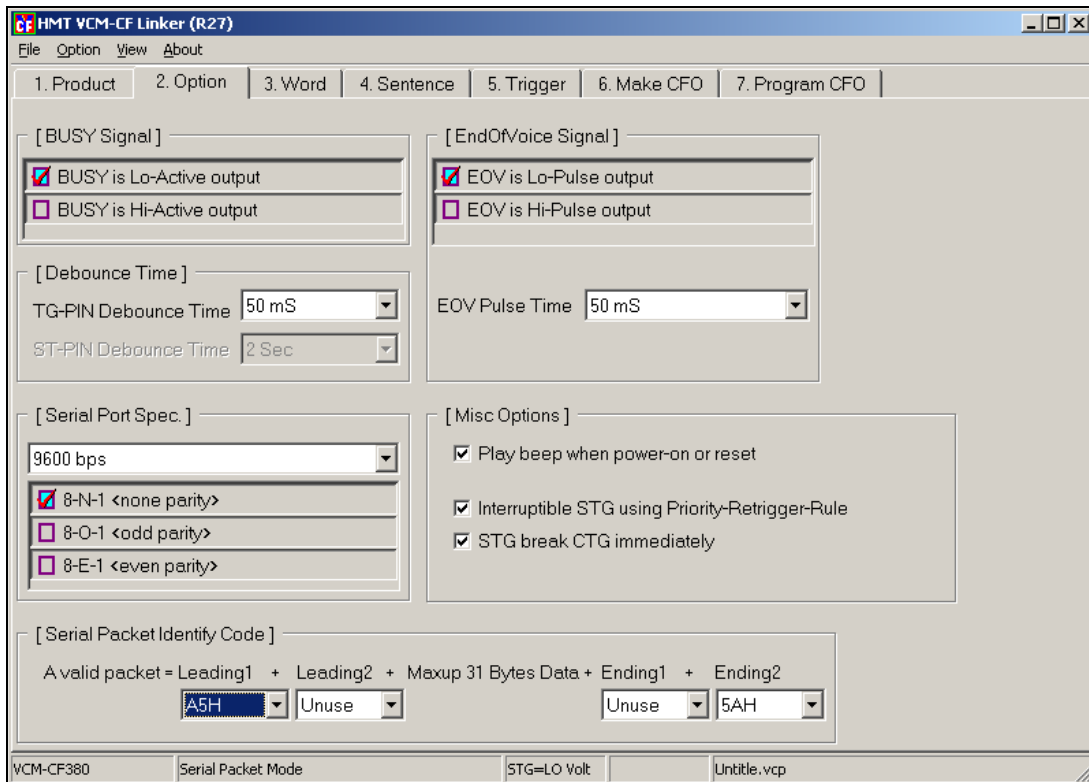
**STG break CTG immediately:**

Set whether to follow the Priority-Retrigger rule when two (or more than two)STG inputs(means single) to be triggered and its attribute is Interruptible.

**BkgndCTG resumable when break by STG or CTG:**

Set whether to resume playing from the interrupted part of Bkgnd CTG right after the STG or CTG finishes playing when the Bkgnd CTG is interrupted by STG or CTG..

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### Serial Port Spec. : Serial Port Value Setting

Baud rate: 1200bps / 2400bps / 4800bps / 9600bps

Communication format: 8-N-1 <none parity> / 8-O-1 <odd parity> / 8-E-1 <even parity>

### Serial Packet Identify Code : Packet Setting for Serial Mode

**Leading1 + Leading2 + Data (Max up 31 bytes) + Ending1 + Ending2**

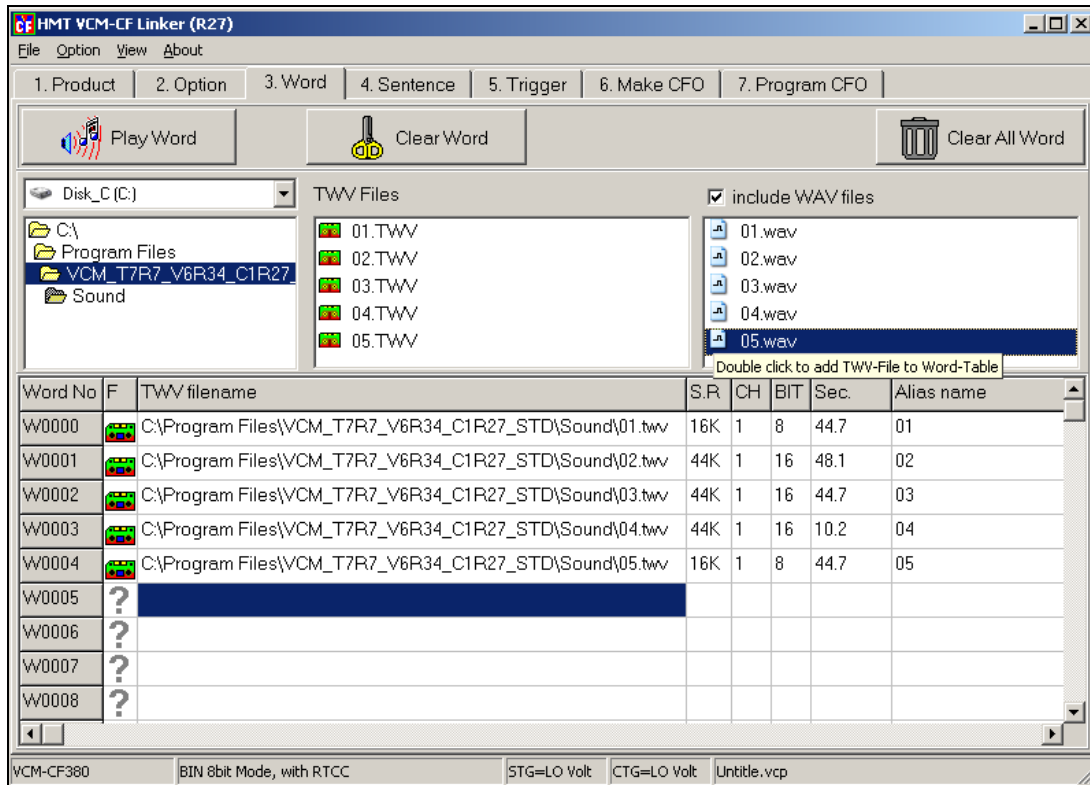
Two sets of Leading and Ending bytes at most are here in this code.

Between leadings and endings, users may place input voice codes (Up to 31 spaces here).

Upon VCM-CF receives the completed packet, it'll start playing the voice; If users put 0xFF in the Data, it will stop playing the voice.

### 3. Word – Word Files Settings

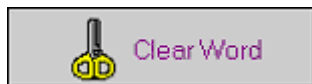
Select TWV file or WAV file first, and then double-click the file to move it to the word sheet below. When the selected file is in a WAV format, the system will change it into TWV format automatically.



#### 3-1 Word Icons



Play the voice file (Word file)



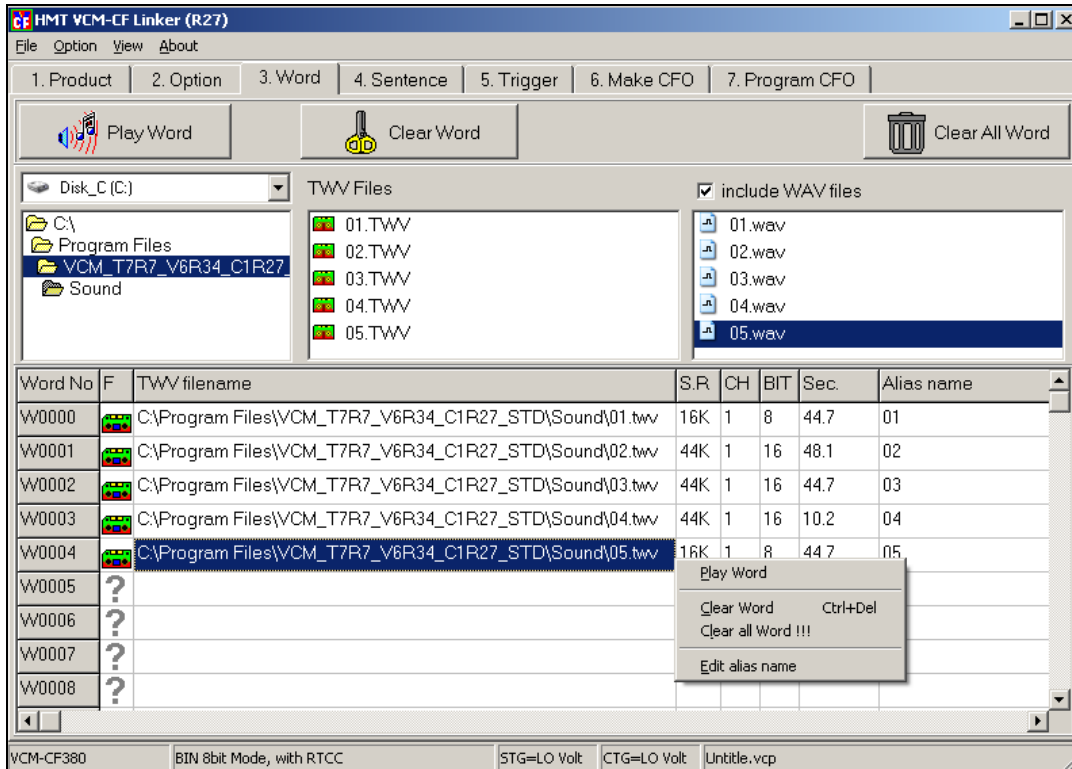
Clear the selected voice file (Word file)



Clear all selected voice files (Word file)

### 3-2 Word Function Menu

From the Word sheet, choose a word file and then right click. The function menu for editing that word file will appear like the picture below.



**Play Word :** Play the voice file (word file)

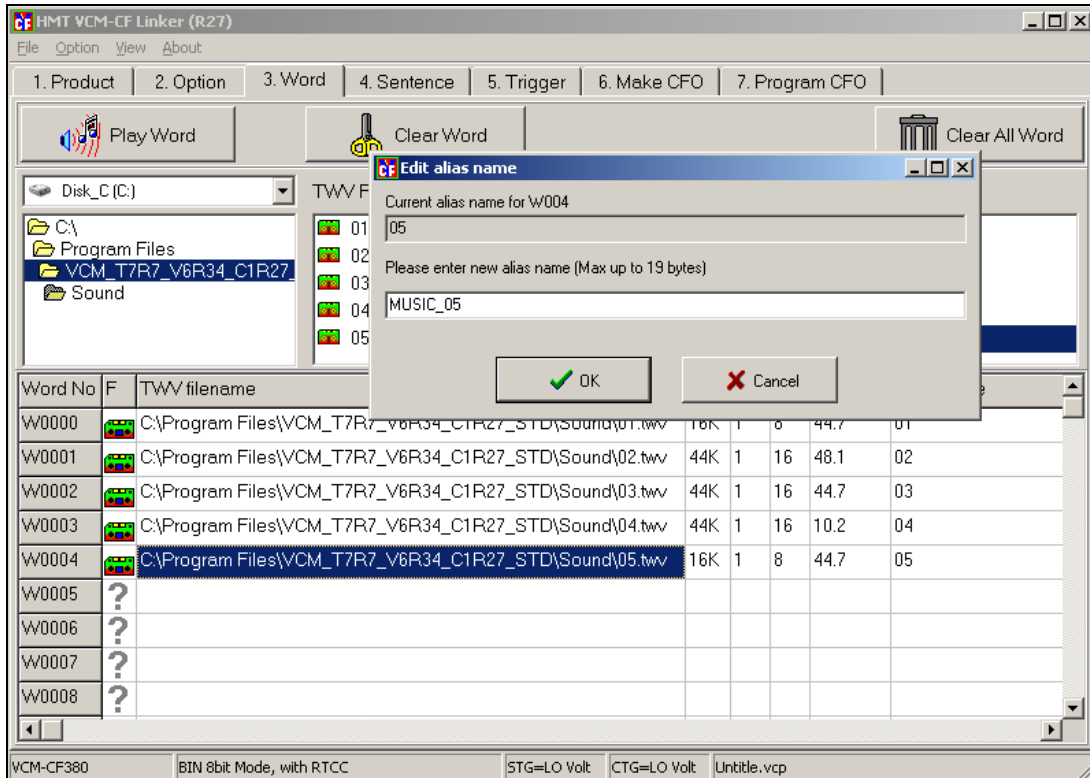
**Clear Word :** Clear the selected voice file (word file)

**Clear all Word :** Clear all of the selected voice files (word files)

**Edit alias name :** Edit the alias name of the voice file (word file) selected.

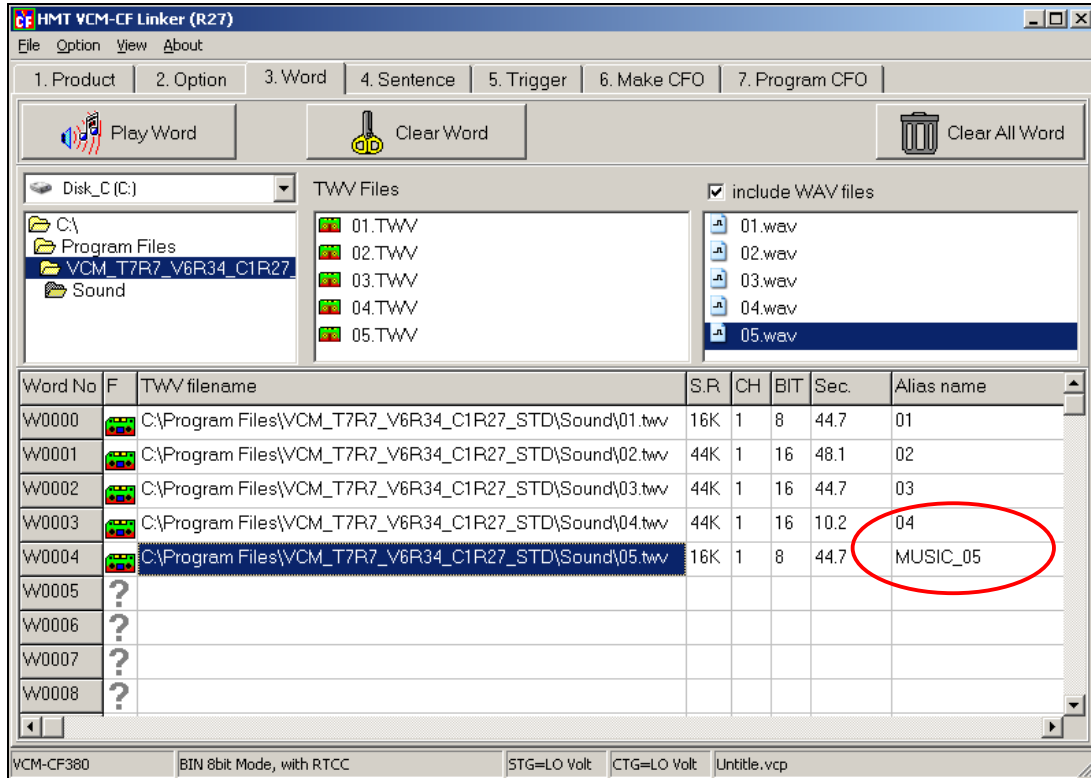
### 3-3 Word-Alias name for a word file descriptions

Choose “Edit alias name” from the function bar, and then the dialogue box will appear as users can see from the picture below. You can revise the alias name of the selected voice file. The function for Alias name setting is the same setting as the one in TrueWave software.



**[Warning] The alias name only works to the TWV format file!!**

After revising the alias name of the voice file (word file), the file will be saved as a TWV format file automatically.



**Q. Why do we have to set an alias name for saving the voice file?**

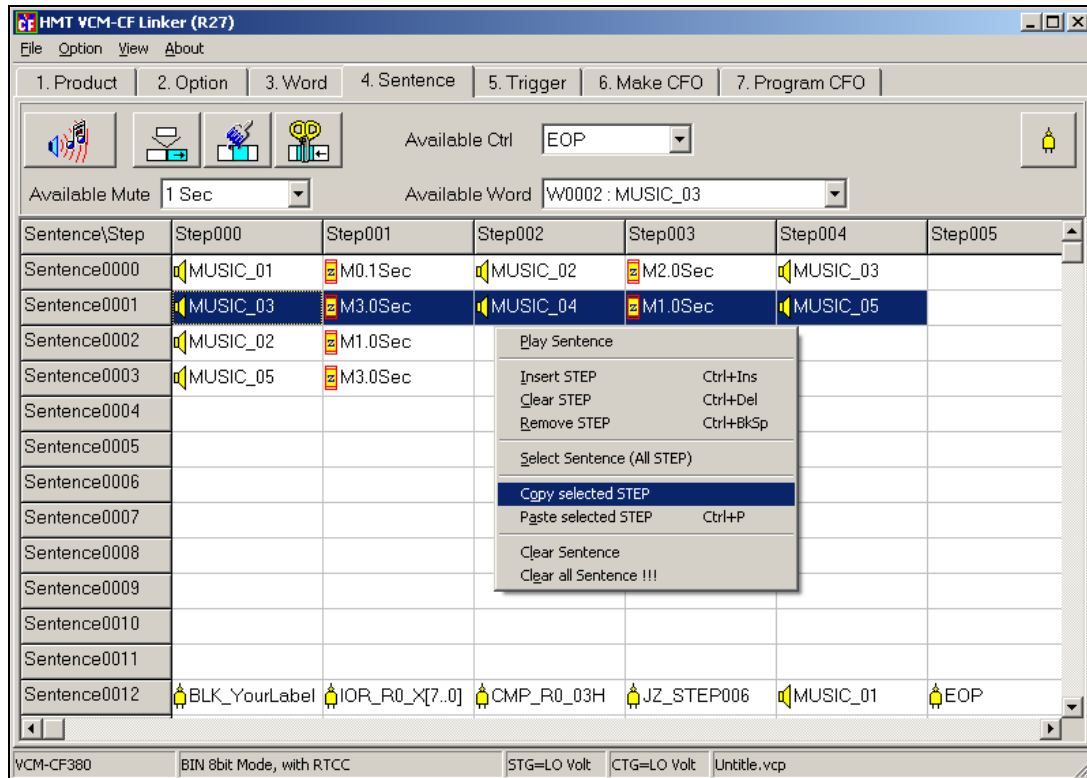
**Ans.:** Alias name makes us easier to recognize when we edit sentences.

Without alias names, all the word files are hard to know what kind of the voice file is inside because we can hardly tell from the name like “W0000 , W0001...”

If users want to edit sentences by using alias names, select the Option form next to File on the function bar. And then tick the option “ **Show Word by Alias format** ” to start editing.

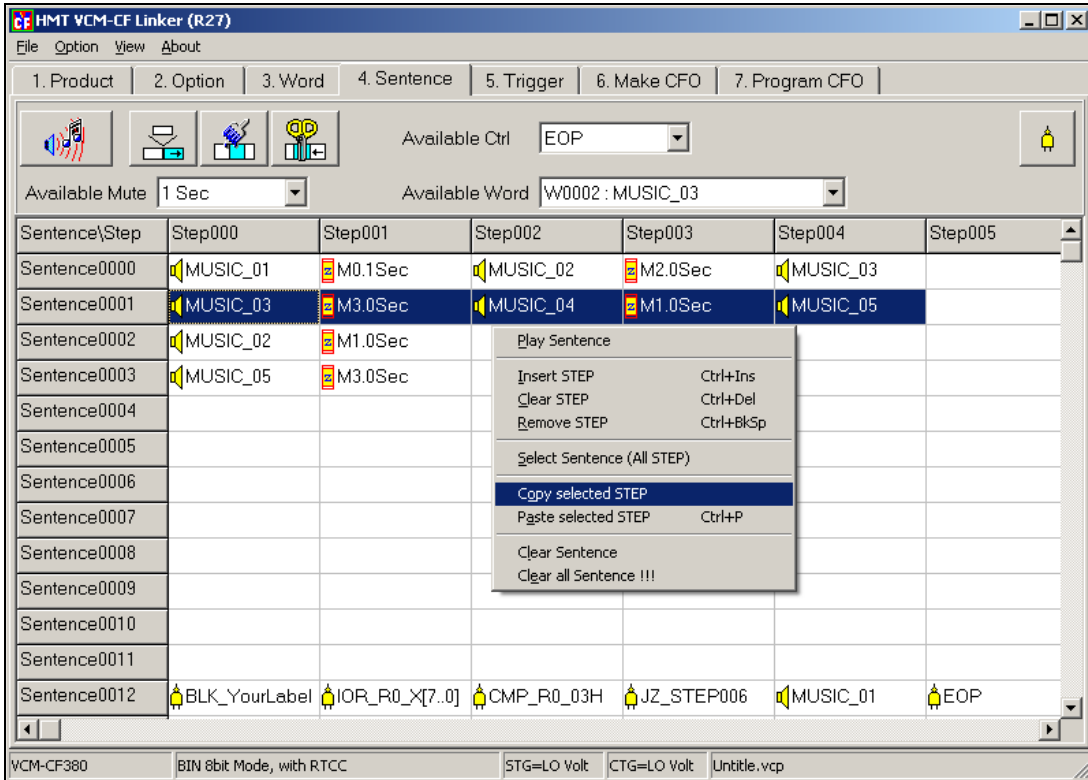
#### 4. Sentence –Sentence schedule

The content of each Sentence can be composed of the three elements-  
**Word/Mute/Available Control.**



### 4-1 Sentence Function Bar

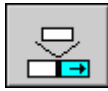
From the pull-down menu of Available Word, select the Word file which is going to be placed onto the Sentence-Step sheet. Or double-click on Sentence-Step, the Word file will appear on Available Word option list as well.



[Warning] Only the Word file selected from the function bar “**3.Word**” can be found from the Available Word pull-down menu.



Play the Sentence



Insert a STEP



Clear the STEP



Delete the STEP

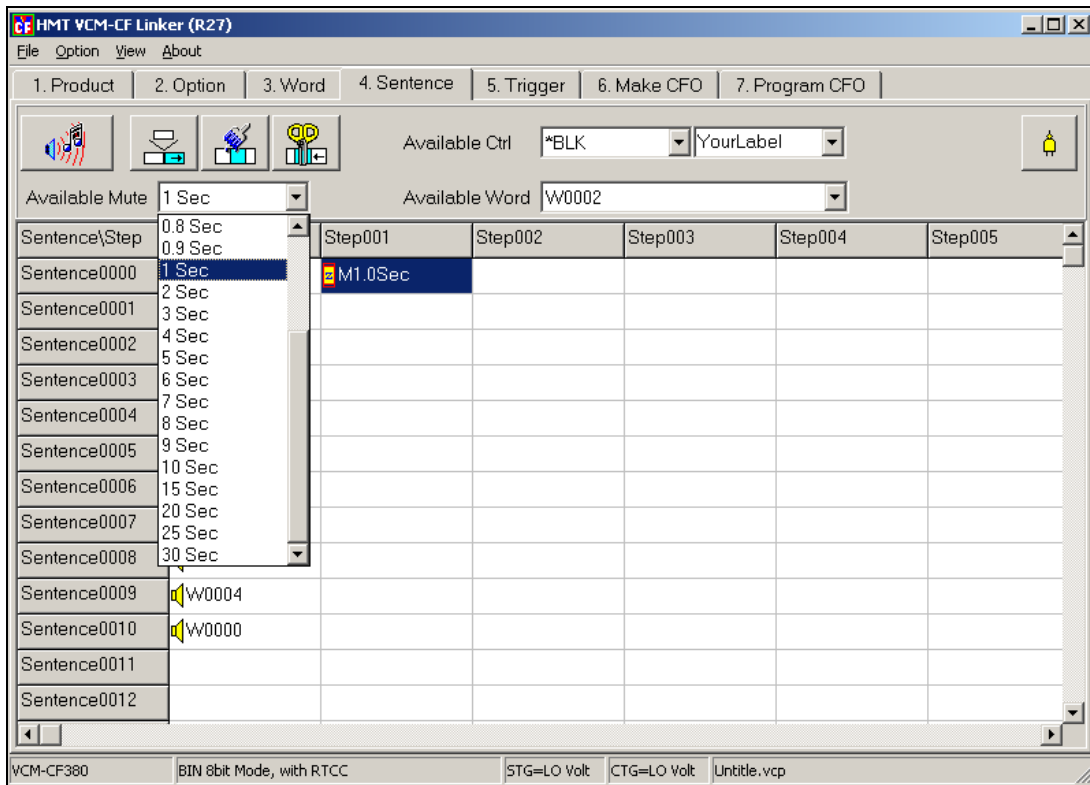


Place a control command



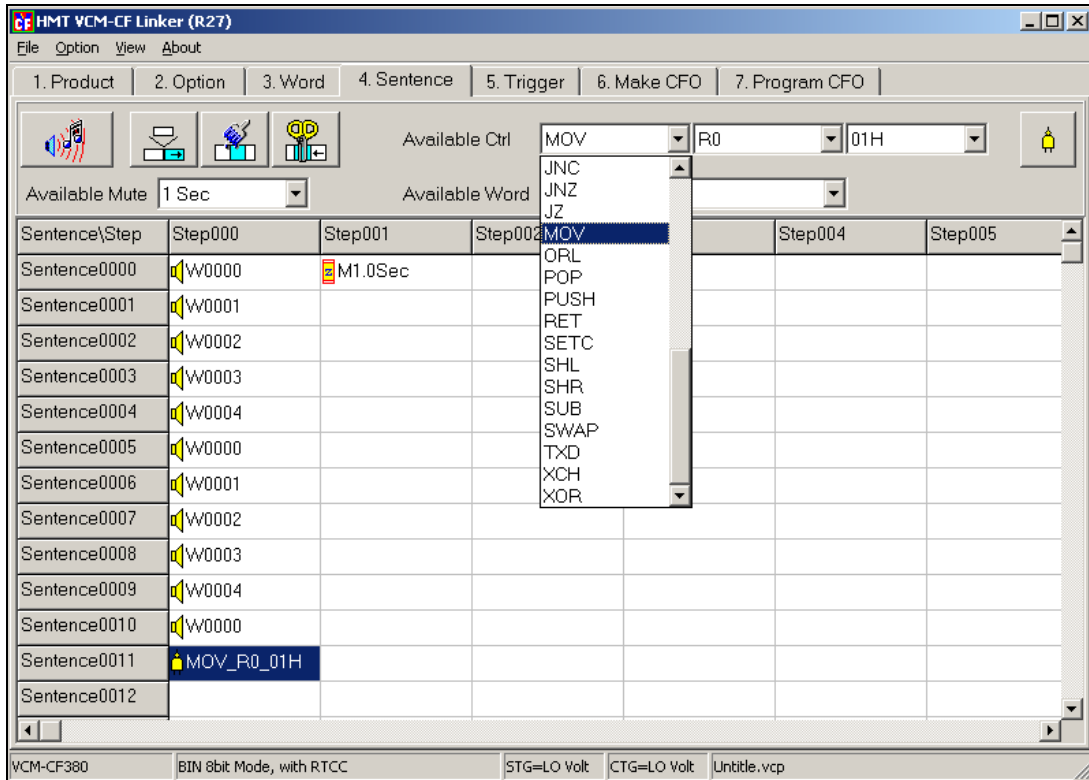
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In the Available Mute option list, users can select to place a period of mute in the sentence. The period of mute won't take up the memory space. 25 units can be used and combined here. (mute unit: the shortest lasts for 0.1 sec. The longest lasts for 30 sec.)



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Available Ctrl option list from VCM-CF series supports ample embedded controlled orders to expand the applications. As for the further applications of the controlled orders, please refer to “VCM-CF Series Available Ctrl Descriptions”!



## 5. Trigger – Arrange a Sentence Code to a Proper Place



Operate Sentence Code



Delete a Sentence Code selected

### 5-1 STG - Single Trigger

HMT VCM-CF Linker (R27)

File Option View About

1. Product 2. Option 3. Word 4. Sentence 5. Trigger 6. Make CFO 7. Program CFO

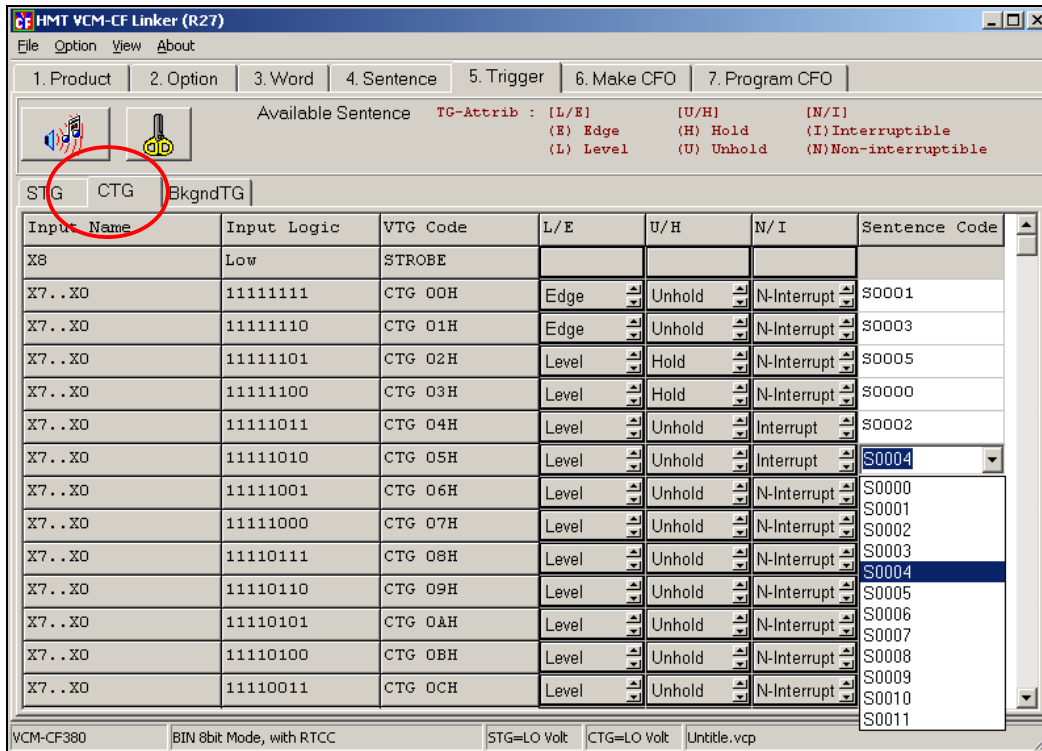
Available Sentence TC-Attrib : [L/E] [U/H] [N/I]  
 (E) Edge (H) Hold (I) Interruptible  
 (L) Level (U) Unhold (N) Non-interruptible

STG CTG BkgndTG

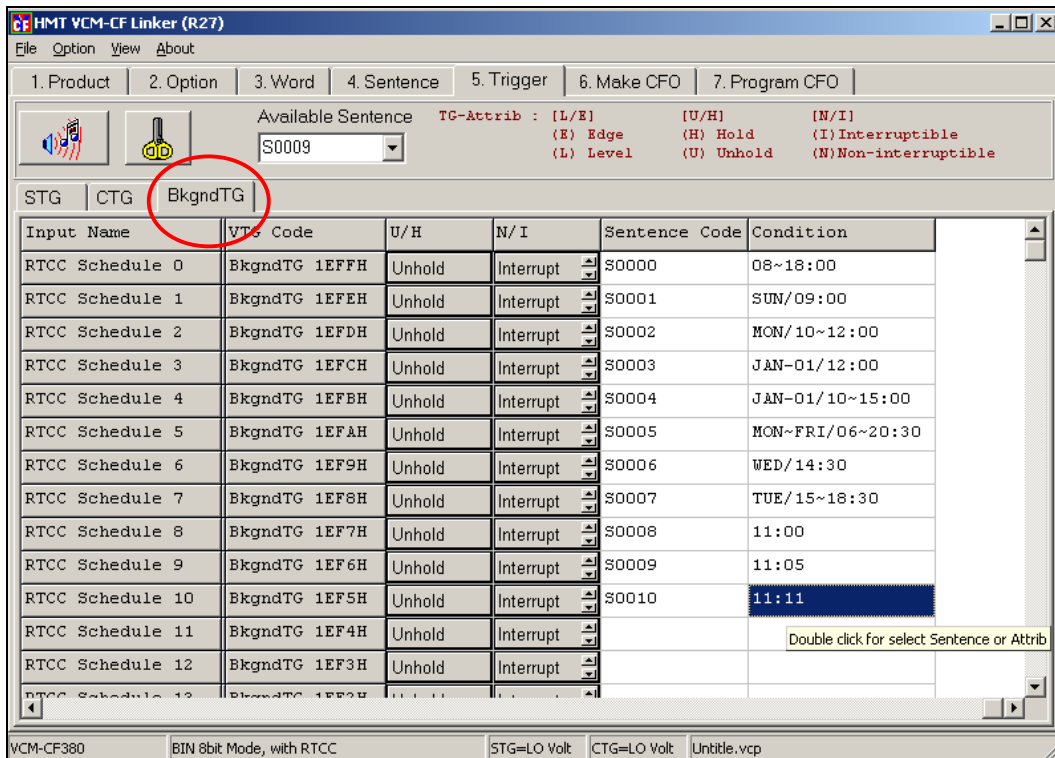
Input Name	Input Logic	VTG Code	L/E	U/H	N/I	Sentence Code
X9	Low	STG 1F09H	Level	Unhold	N-Interrupt	S0000
X10	Low	STG 1F0AH	Level	Unhold	N-Interrupt	S0001
X11	Low	STG 1F0BH	Level	Hold	N-Interrupt	S0002
X12	Low	STG 1F0CH	Level	Hold	N-Interrupt	S0003
X13	Low	STG 1F0DH	Level	Unhold	Interrupt	S0004
X14	Low	STG 1F0EH	Level	Unhold	Interrupt	S0005
X15	Low	STG 1F0FH	Edge	Unhold	N-Interrupt	S0006
X16	Low	STG 1F10H	Edge	Unhold	N-Interrupt	S0000
X17	Low	STG 1F11H	Level	Unhold	N-Interrupt	S0001
X18	Low	STG 1F12H	Level	Unhold	N-Interrupt	S0002
X19	Low	STG 1F13H	Level	Unhold	N-Interrupt	S0003
X20	Low	STG 1F14H	Level	Unhold	N-Interrupt	S0004
X21	Low	STG 1F15H	Level	Unhold	N-Interrupt	S0005
X22	Low	STG 1F16H	Level	Unhold	N-Interrupt	S0006
						S0007
						S0008
						S0009
						S0010
						S0011

VCM-CF380 BIN 8bit Mode, with RTCC STG=LO Volt CTG=LO Volt Untile.vcp

## 5-2 CTG – Code Trigger (Binary Code or Serial Code )



## 5-3 BkgndTG – Background Trigger (RTCC or TAPE Mode) (VCM-CF380 ONLY)

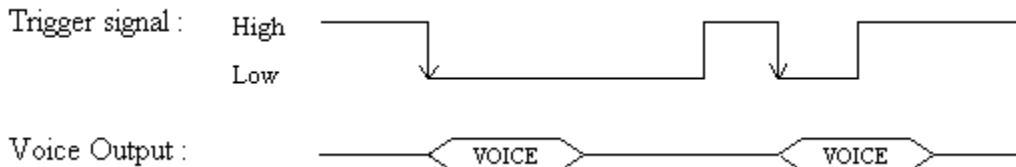


## 5-4 Descriptions of Trigger attributes:

- (1) **Edge/Level** This attribute is to set the way of signal when the input is triggered by the external output.

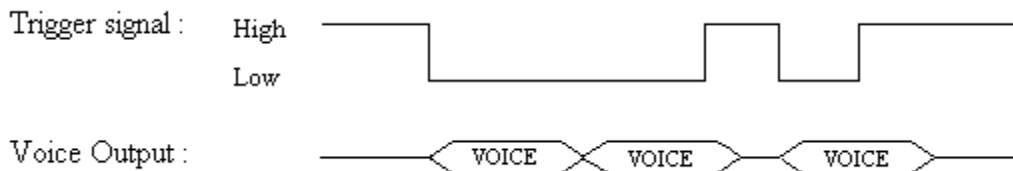
### 1.) To set Edge Trigger

Ex. Use Low Trigger



### 2.) To set Level Trigger

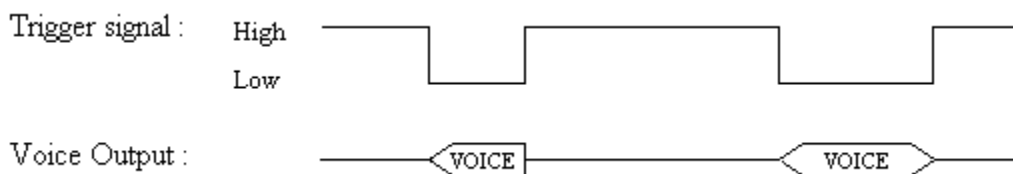
Ex. Use Low Trigger



- (2) **Hold/Unhold** This attribute is to set the relationship between the voice output and the external trigger signal.

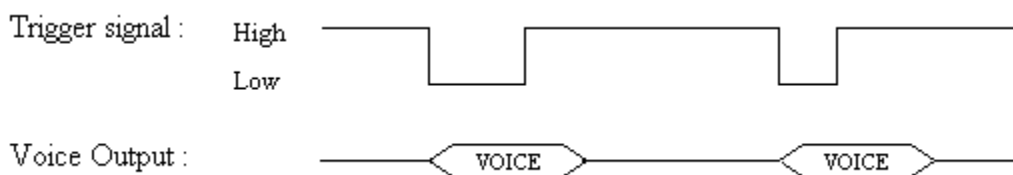
### 1.) To set in a Hold condition (External trigger signal keeps held)

Ex. Use Low Trigger



### 2.) To set in an Unhold condition (External trigger signal is no need to hold)

Ex. Use Low Trigger

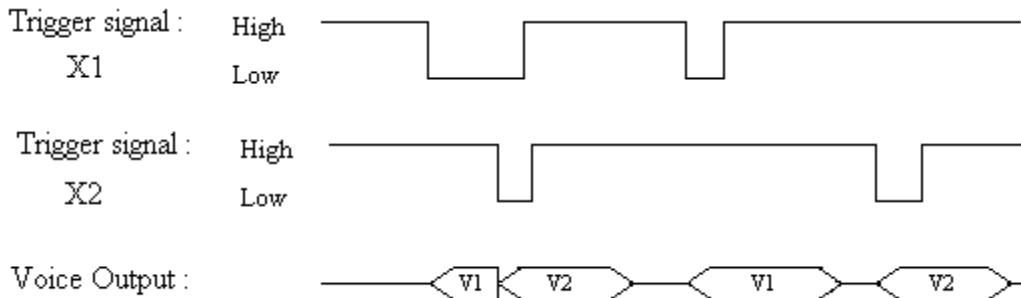


**(3) Interruptible/ Non-interruptible**

This attribute is to set whether the selected voice file can be played out right after the interruption of other voice sentences.

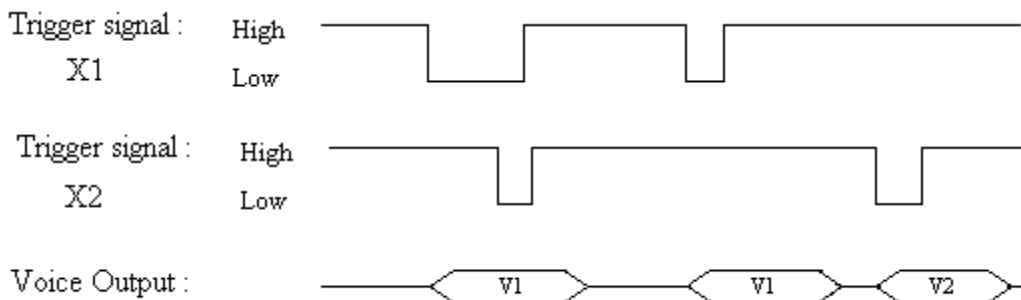
**1.) To set under the Interruptible situation (interruptible)**

Ex. Use Low Trigger. X1 is to set as an Interruptible attribute.



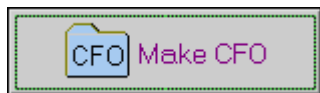
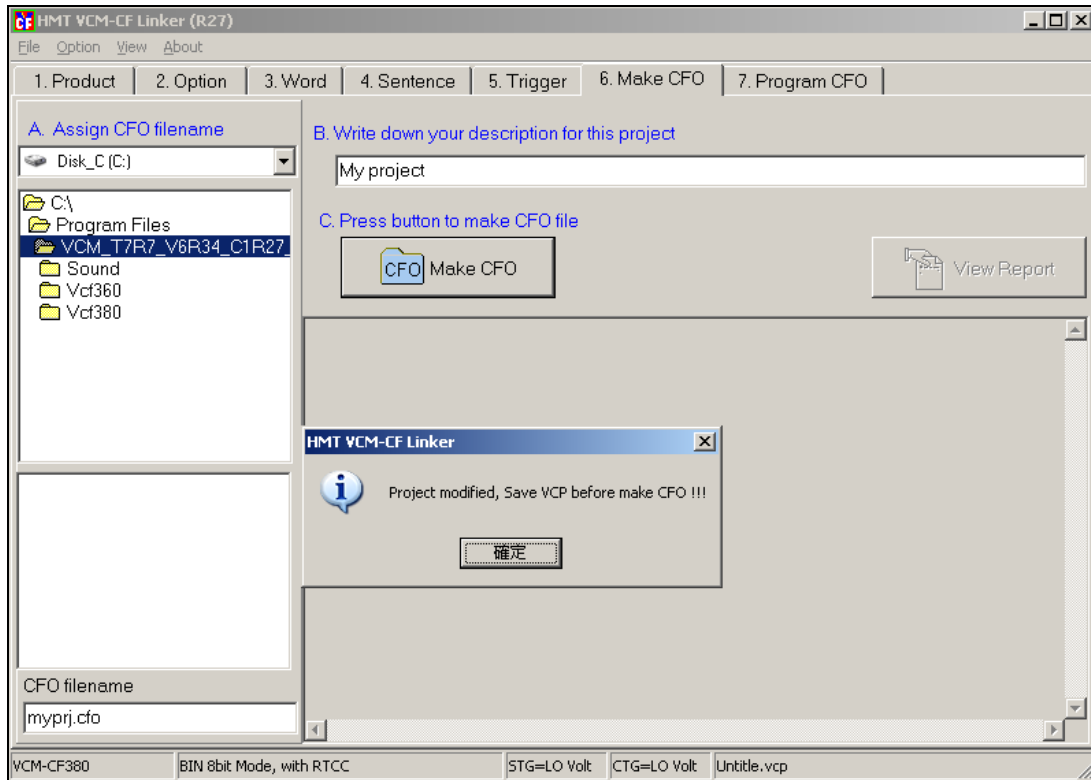
**2.) To set under the Non-interruptible situation (non-interruptible)**

Ex. Use Low trigger. X1 is to set as a Non-interruptible attribute.



## 6. Make CFO – Make CF Documents

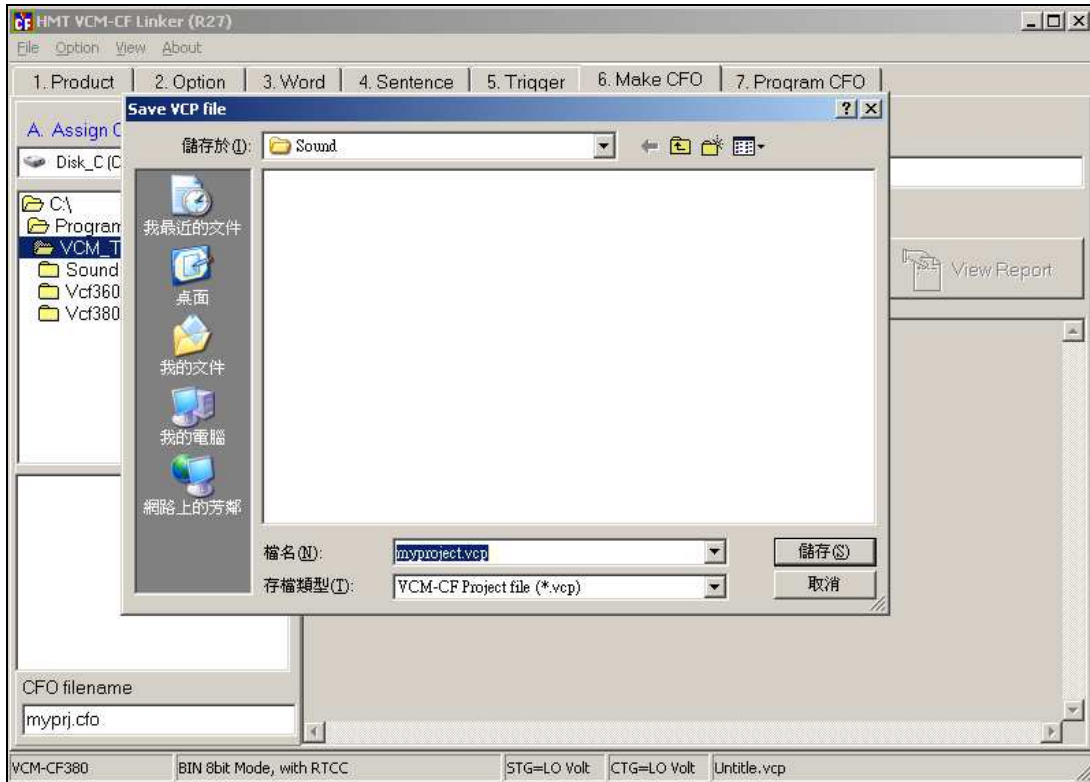
Before clicking on “Make CFO”, we here remind users to save the files in advanced. If any corrections on the files in the future, just load the Setting Files again to fix.



make a CFO document

## 6-1 CFO File Saving

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



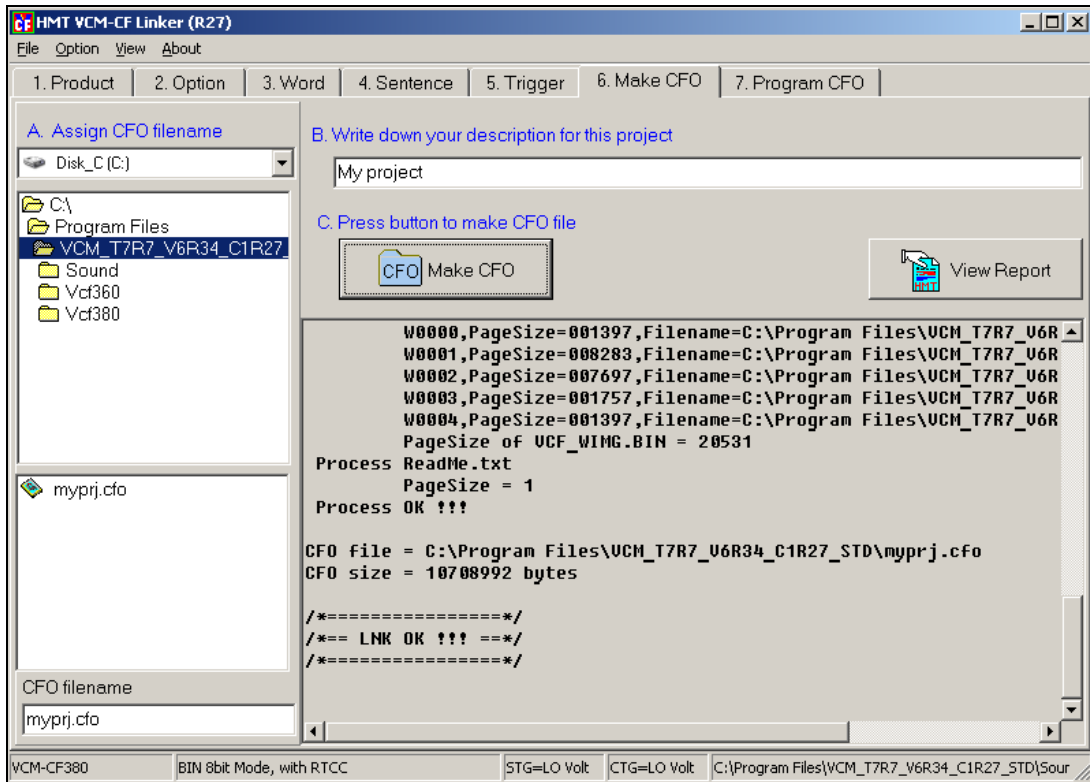


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When users see the picture below, it means the CFO file is done.

Users will see “CFO size = xxxxx bytes” in the report. It means how much memory space users need in CF card. (1MegaByte=1048576 bytes)

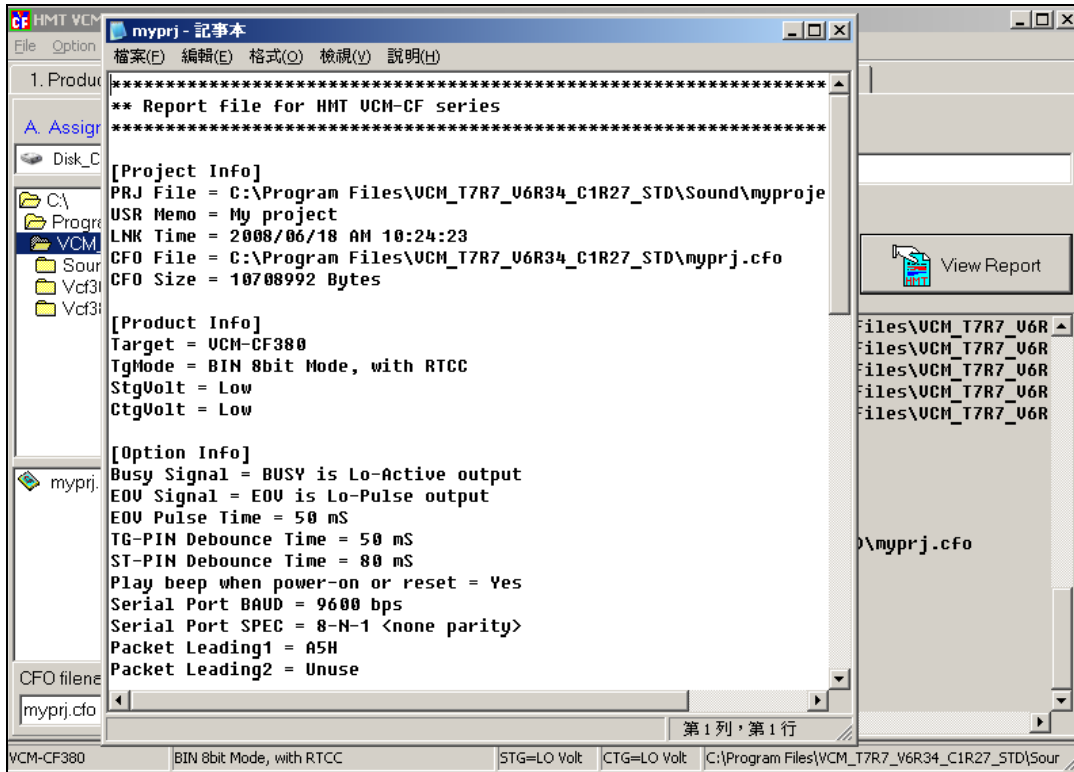
**[Warning!!]** The storage data in CF card must be larger than the data shown from the CFO size report.



Check the report

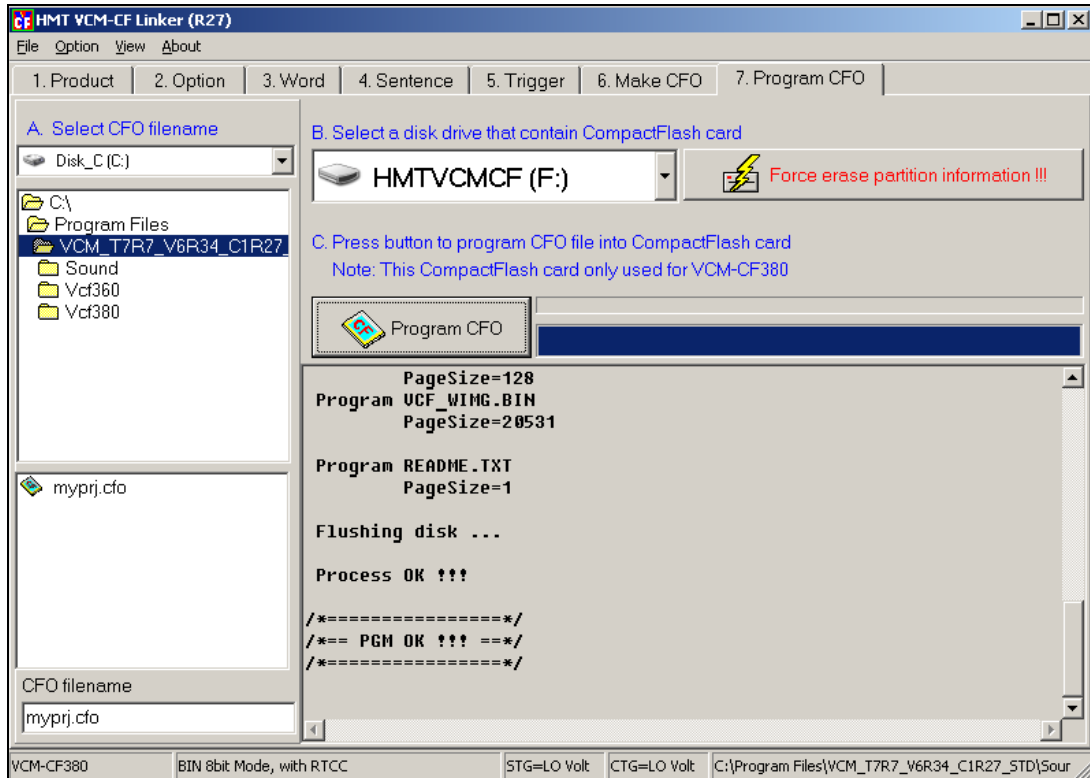
## 6-2 CFO Report Check

Click on “View Report” and it’ll show the related information about this setting.



## 7. Program CFO – Write in CF Memory Card

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

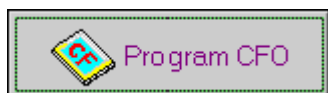


[Warning!!!] It's a must to use this program to download the information from CFO to CF memory card.

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



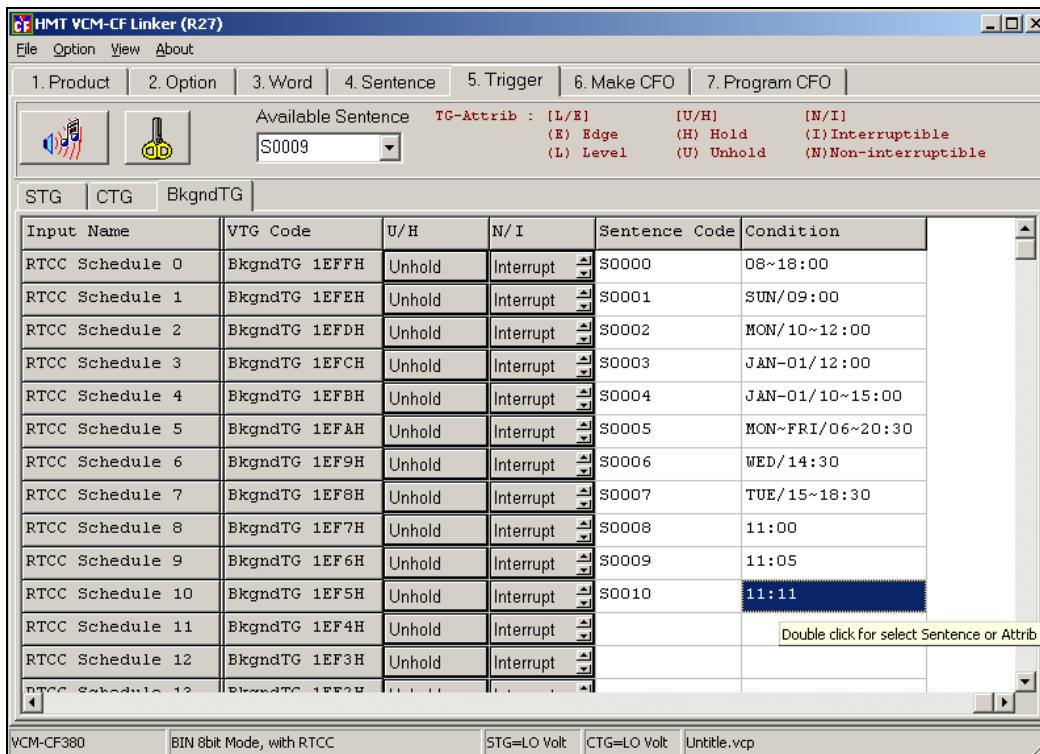
Clear partition information from CF memory card



Start to download the information from CFO to CF memory card

## 8. RTCC (Real Time Clock) Setting Mode & Descriptions

This mode is only for the built-in RTCC IC--VCM-CF product series ( ex.VCM-CF380)Operation: To set a time condition. When the condition is set, it'll execute the selected sentence code. When the time condition overlaps, **“the more specific one is the priority to execute”**. The picture below is an example as the description of the priority rule when overlaps:



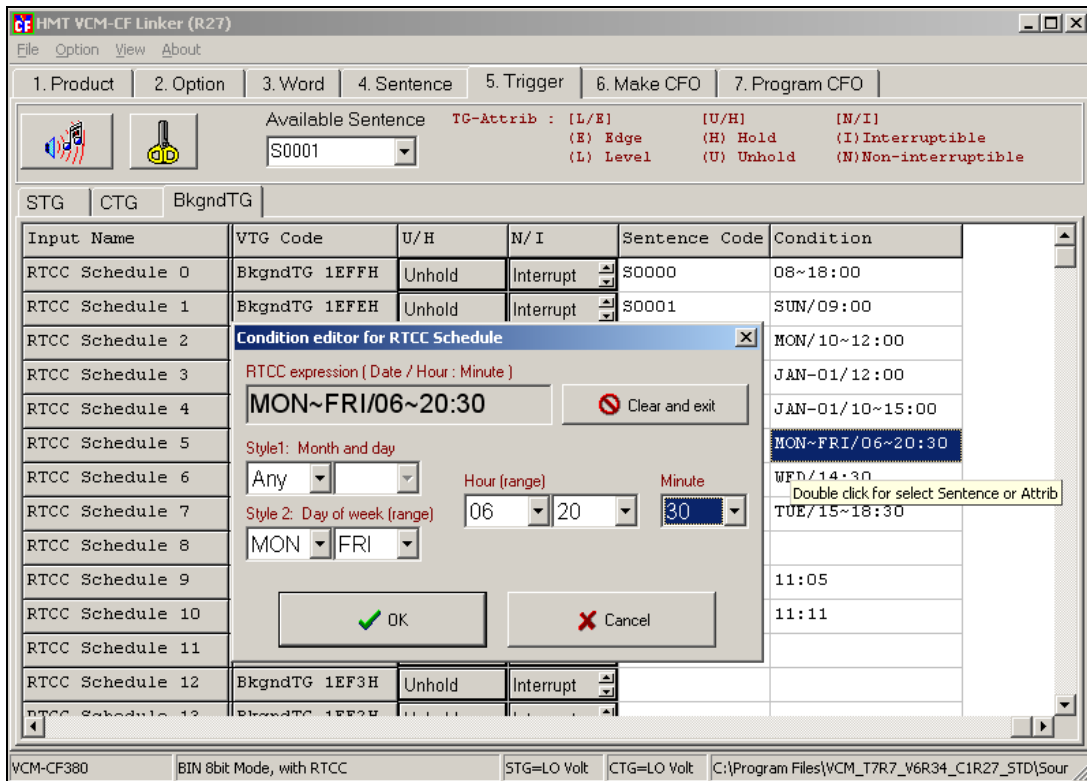
### RTCC\_SCH0: S0000 / 08~18:00:

At the clock time from 8:00 – 18:00 per day, it'll execute the setting- S0000. It means this setting S0000 executes at 08:00,09:00,10:00,11:00...17:00, 18:00 per day. If today is SUN (Sunday), it'll execute S0001 instead of S0000 at 09:00. It is because the time condition in **RTCC\_SCH1: SUN/09:00** is more specific than it in **RTCC\_SCH0**.

When the setting date (Ex: RTCC\_SCH3 and RTCC\_SCH4) is active, it'll follow that day's schedule. The rest of time conditions will be inactive on that day.

Take RTCC\_SCH3 and RTCC\_SCH4 for example, both indicate JAN-01 as a setting date. If today is JAN-01, it'll execute S0004 which means the schedule at 10:00,11:00,13:00,14:00,15:00 only. Execute S0003 at 12:00 and the rest of time conditions will be overlooked!!

Move the cursor to “Condition”, and double-click. The dialogue box of Condition editor for RTCC Schedule will appear. Please see the picture below:



**Month and day:** To name a specific date. When this setting is done, the function of “Day of week” will be inactive automatically.

**Day of week :** To name a day or a period of time (Ex: MON-FRI). When this setting is done, the function of “Month and day” will be inactive automatically.

**[Attention!]** The setting of the days must follow the sequence--SUN – SAT. If you want to name the day from SAT to SUN, you have to name SAT first and then SUN-FRI because SAT is the last day of the week in this program while SUN is the first day of the next week. For this program, there are two weeks within “SAT to SUN”, so users can’t set this schedule in one action!

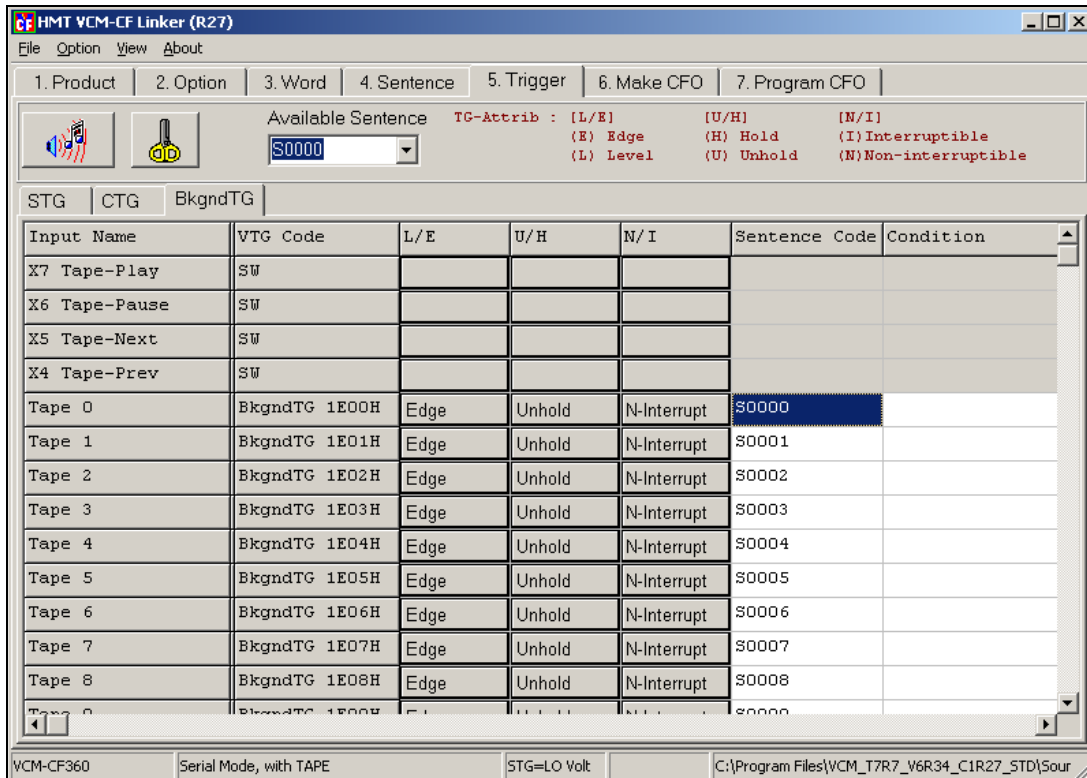
**Hour:** To name “hour time” or “time zone” condition

**Minute:** To name “minute time” condition

**[The minimum of the action time for RTCC is one minute. It means the minimum nit is one minute]**

## 9. TAPE Mode & Descriptions

This operation is like a real tape broadcast machine (for VCM-CF360 only).



**X7 (Play):** Play

**X6 (Pause):** Pause

**X5 (Next):** Forward

**X4 (Prev):** Rewind

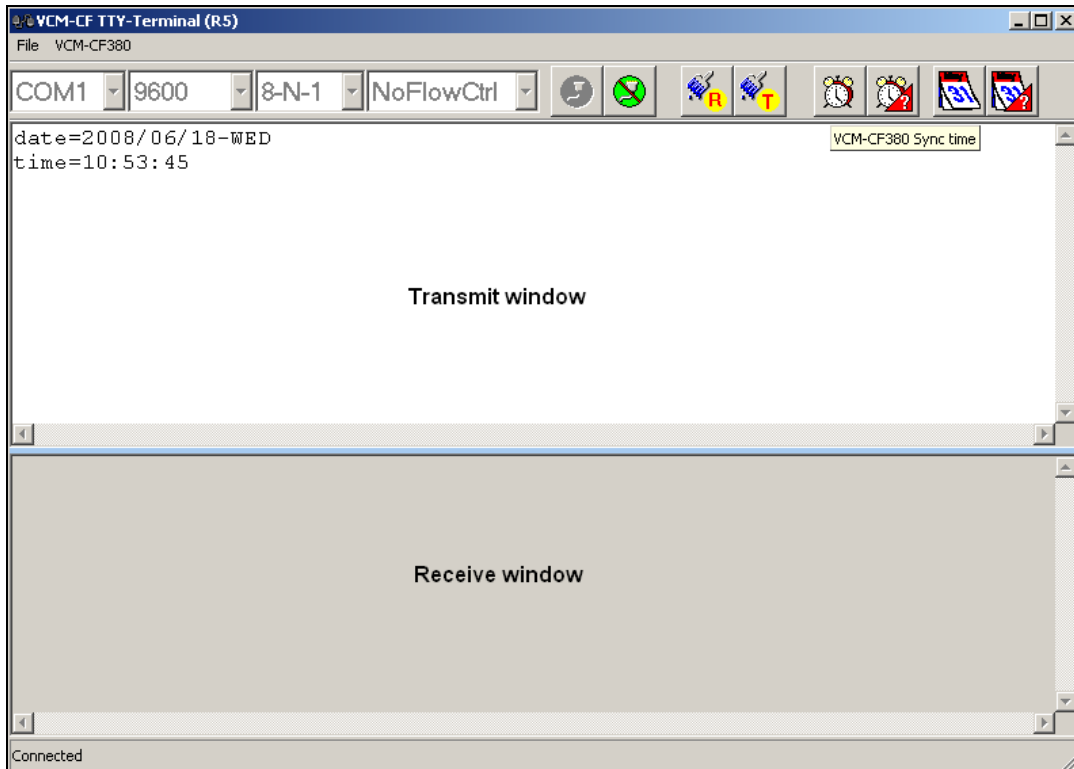
**J3 (Repeat play):** When set under an “H” condition, it’ll start the function-”Repeat”. It means this function will start to play after all the segments in the tape finish playing for one time in order.

**J4 (Random play):** When set under an “H” condition, it’ll start the random play function.

**Tape\_0 – Tape\_31** There are totally 32 voice segments (melodies)

## 10. VCM-CF TTY Operating Descriptions

This software is to offer the setting and check the information in VCM-CF380 internal clock. It also can be a TTY to test in the ASCII Trigger mode.



### 10-1 VCM-CF TTY Icons



Connection



Disconnection



Synchronize the VCM-CF380 internal clock time with the PC clock time.  
(Please double check the time on your PC.)



Read VCM-CF380 internal clock time information (hour-minute-second)



Synchronize the date in VCM-CF380 internal clock with it on PC.  
(Please double check the date on the PC)



Read VCM-CF380 internal clock date information (Year-Month-Date-Day)



Clear “Receive window” content



Clear “Transmit window” content

## 10-2 Manual Setting

Please key the orders below in the transmit window (Attention! Do not use the Back Space key here!)

<enter> means “Enter” key on the keyboard

Inquiry: VCM-CF380 internal clock date: date? <enter>

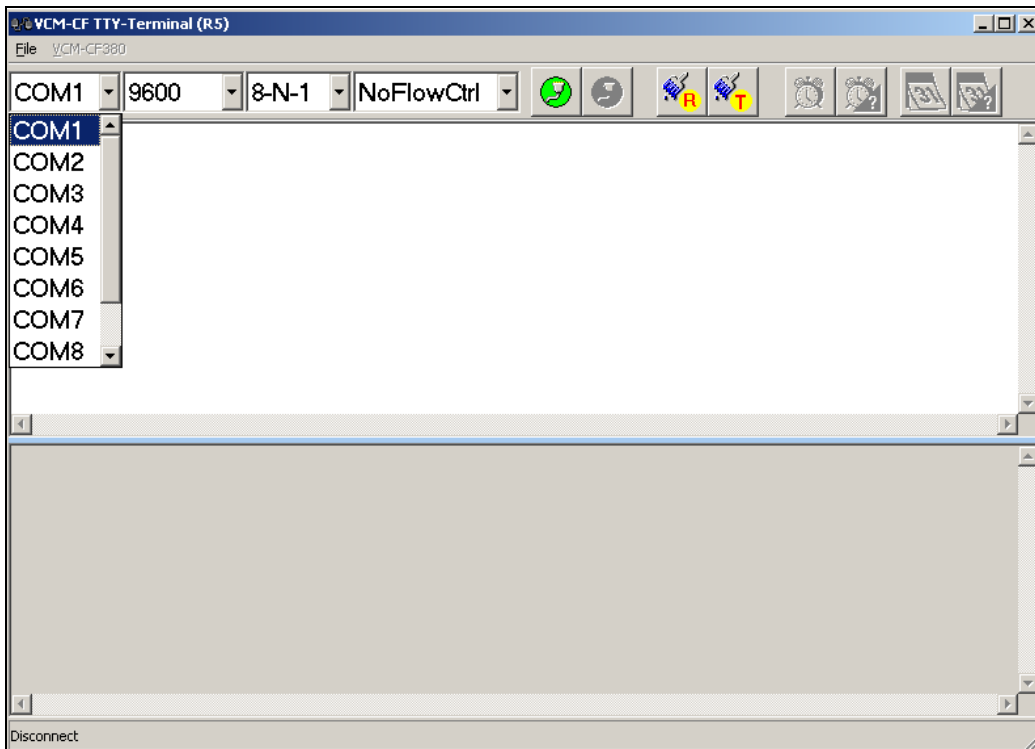
Setting: VCM-CF380 internal clock date: date=2003/12/26-THU <enter>

Inquiry: VCM-CF380 internal clock time: time? <enter>

Setting: VCM-CF380 internal clock time: time=12:01:33 <enter>

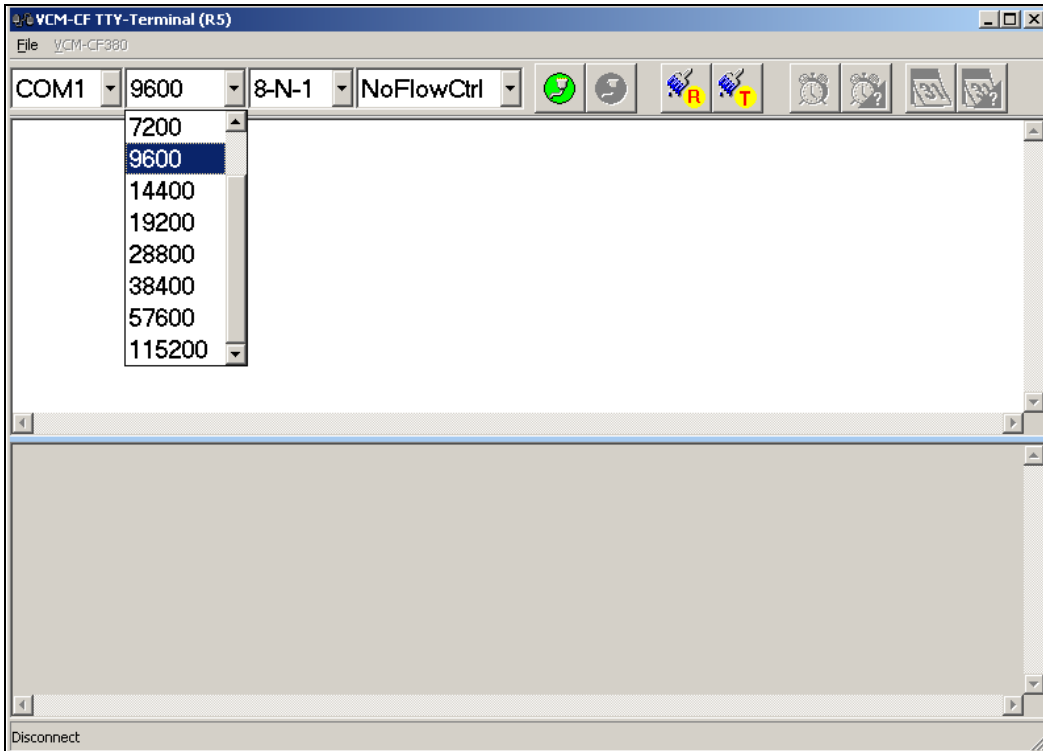
## 10-3 Settings

COM Port Setting: (COM 1 – COM 4)



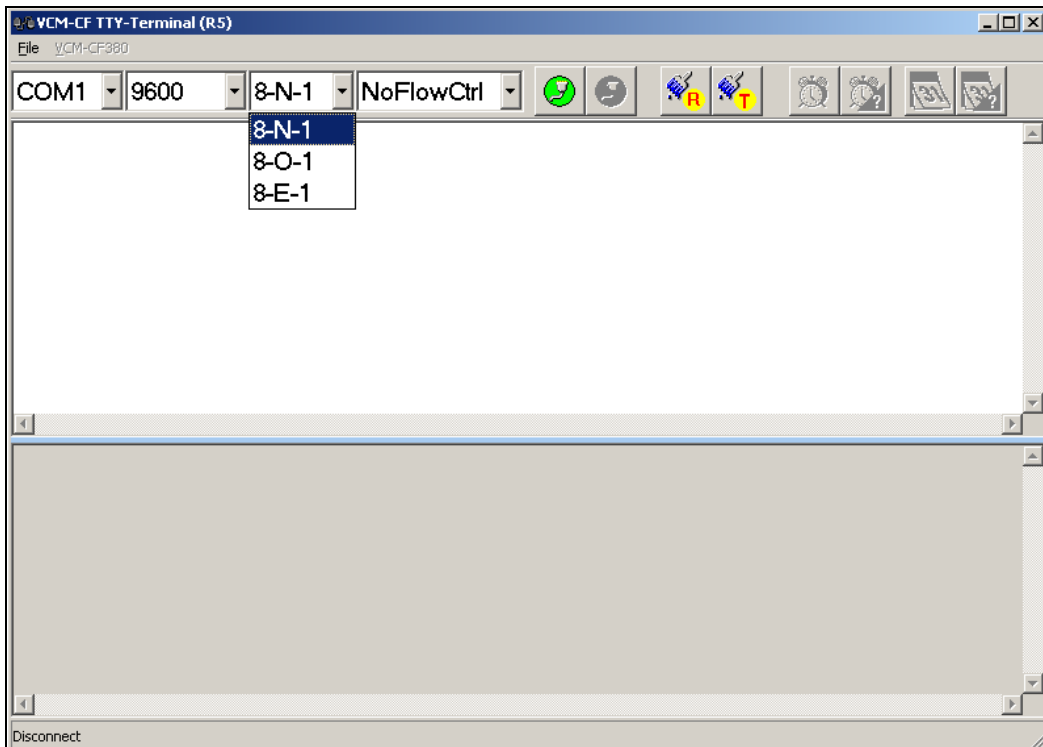


Communication Baud rate Setting: (2400bps / 4800bps / 9600bps)



Communication Information Format Setting:

Bits and Parity: (1-8-N-1 / 1-8-E-1 / 1-8-O-1)



## 11. VCM-CF ASCII Trigger Mode Descriptions

[A] **Sentence Play:** Each voice code has to add [CR\_LF] at the end of code.

It can transmit 31 play codes (at most) in order.

**Order Format:** play TGNum [CR\_LF] or TGNum [CR\_LF]

**TGNum:** Mean each number to the sentences--0 – (255/511/1023/7423),  
using the ASCII way.

Ex: Play No.21 Sentence Serial Order:

Play (in lower-case)	[blank]	TGNO.21	[CR_LF]
0x70 0x6c 0x6a 0x79	0x20	0x32 0x31	0xD 0xA

Or

TGNO.21	[CR_LF]
0x32 0x31	0xD 0xA

Ex: Play sentence No.86 and No.951

[Play No.86 first and then No.951]

Serial Order:

TGNO.86	[CR_LF]	TGNO.951	[CR_LF]
0x38 0x36	0x0A	0x39 0x35 0x31	0x0A

[B] **Stop Playing:** <When VCM-CF receives this order, the voice stops right away>

**Order format:** stop [CR\_LF]

Stop (in lower-case)	[CR_LF]
0x73 0x74 0x6f 0x70	0xD 0xA

[Note] CR\_LF means 0xD and 0xA. It can also transmit **0xA** only.

## 12. VCM-CF Malfunction Alarm Situations & Solutions

Long beep	Short beep	Situations & Solutions
5	3	The chipboard is out of function. Please send it 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 under the program-  
**7.Program CFO** from VCM-CF Link. **Do not clone files and write other files by the other copy ways!!**

## 13. VCM-CF Series Voice Storage Length Formula

### 1.) 8 Bits

CF CARD capacity × 1024KB / sampling Rate = ??? sec.

EX : CF CARD 256 MB applies 44.1 KHZ, 8 Bits

$$\boxed{256} \times 1024 \text{ KB} / \boxed{44.1} \text{ K} = 5944 \text{ sec.}$$

### 2.) 16 Bits

CF CARD capacity × 1024KB / sampling Rate = ??? sec. (8Bits) / 2 = ??? sec. (16Bits)

EX : CF CARD 256MB applies 44.1 KHZ, 16Bits

$$\boxed{256} \times 1024 \text{ KB} / \boxed{44.1} \text{ K} = 5944 \text{ sec. (8Bits)} / 2 = 2972 \text{ sec. (16Bits)}$$

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

**\*\* The number in this box  means different CF CARD capacities & sampling rates. They decide the length of a voice.\*\***