

VCM-CF Series Voice Module Operating Manual

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1. Product Name and Trigger Mode Selection

1-1 VCM-CF360 Supportive Mode Selection

CF HMT VCM-CF Linker (R27)		
<u>File Option View A</u> bout		
1. Product 2. Option 3. Word 4. Sentence	5. Trigger 6. Make CFO 7. Pro	gram CFO
[A. Product Series]	- [B. Trigger Mode]	
	🗹 Single Mode	單點模式
	Cycle Mode	循環模式
VCM CE	BCD Mode	7bit BCD + Strobe 模式
VUIVI-UF Series	🔲 Bin Mode	7bit Binary + Strobe 模式
Standard Version	Parallel BCD Mode	8bit BCD 模式
l	🔲 Parallel Bin Mode	8bit Binary 模式
VCM-CF360	🔲 Serial Mode	串列 + 單點模式
VCM-CF380	Serial Mode, with TAPE	串列 + 單點 + Tape模式
	Serial Packet Mode	串列封包 + 單點模式
	🔲 Serial Packet Mode, with TAPE	串列封包 + 單點 +Tape模式
	Serial ASCII-LF Mode, 256TG	ASCII串列 + 單點模式
	Serial ASCII-LF Mode, 512TG	ASCII串列 + 單點模式
	Serial ASCII-LF Mode, 1024TG	ASCII串列 + 單點模式
	Serial ASCII-LF Mode, 7424TG	ASCII串列 + 單點模式
VCM-CF360 Single Mode	STG=LO Volt Untitle.vc	p

1-2 VCM-CF360 Trigger Mode

Trigger Mode	Trigger Pins	Trigger Pins	Trigger Pins	Total Msg.		
ingger moue	Msg.	Msg.	Msg.	1000111155.		
Single	X0 - X7			8		
(Direct Single)	8			0		
Cycle	X0 - X7			8		
(Direct Single Application)	8			0		
Bin	[X0 - X6] <x7></x7>			127		
(7 bit binary code with Strobe signal)	127			127		
Parallel Bin	[X0 - X7]			254		
(8 bit binary code without strobe signal)	254			231		
BCD	[X0 - X6] <x7></x7>			80		
(BCD code with strobe signal)	80					
Parallel BCD	[X0 - X7]			99		
(BCD code without strobe signal)	99			,,,		
Serial	Rx	X0 - X7		263		
(For TTL/RS-232 Level)	255	8		200		

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Trigger Mode	Trigger Pins	Trigger Pins	Trigger Pins	Total Msg		
mgger woue	Msg.	Msg.	Msg.	100001 1115g		
Serial Packet	Rx	X0 - X7		263		
Serial Lacket	255	8		205		
Serial ASCII-LF, 256TG	Rx	X0 - X7		264		
(Up to 256 messages)	256	8		201		
Serial ASCII-LF, 512TG	Rx	X0 - X7		520		
(Up to 512 messages)	512	8		520		
Serial ASCII-LF, 1024TG	Rx	X0 - X7		1032		
(Up to1024 messages)	1024	8				
Serial ASCII-LF, 7424TG	Rx	X0 - X7		7432		
(Up to 7424 messages)	7424	8		7432		
Serial + Tape	Tape	Rx	X0 - X3	291		
(Serial input with Tape Mode)	32	255	4	271		
Serial Packet + TAPE	Таре	Rx	X0 - X3	291		
	32	255	4	271		

<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.

-2-

HMT VCM-CF Linker (R27)					
<u>File Option View About</u>					
1. Product 2. Option 3. Word 4. Sentence	5. Trigger 6. Make CFO 7. Program	n CFO			
_ [A. Product Series]	- [B. Trigger Mode]				
	🗹 Single Mode	單點模式			
	Cycle Mode	循環模式			
VCB CE	BCD Mode	8bits BCD[Strobe] + 單點模式			
VUIVI-UF Series	BIN 8bit Mode	8bits Binary[Strobe] + 單點模式			
Standard Version	BIN 8bit Mode, with RTCC 8bits	; Binary[Strobe] + 單點 + RTCC模式			
	BIN 10bit Mode	10bits Binary[Strobe] + 單點模式			
CM-CF360	Parallel BCD Mode	8bits BCD + 單點模式			
VCM-CF380	Parallel BIN 8bit Mode	8bits Binary + 單點模式			
	Parallel BIN 8bit Mode, with RTCC	8bits Binary + 單點 + RTCC模式			
	Parallel BIN 10bit Mode	10bits Binary模式			
	Serial Mode	串列 + 單點模式			
	Serial Mode, with Single + RTCC	串列+單點+RTCC模式			
	Serial Packet Mode	串列封包+單點模式			
	Serial Packet Mode, with Single + RTCC	串列封包+單點+RTCC模式			
	Serial ASCII-LF Mode, 256TG	ASCII串列 + 單點模式			
	Serial ASCII-LF Mode, 512TG	ASCII串列 + 單點模式			
	Serial ASCII-LF Mode, 1024TG	ASCII串列 + 單點模式			
	Serial ASCII-LF Mode, 7424TG	ASCII串列 + 單點模式			
VCM-CF380 Single Mode	STG=LO Volt Untitle.vcp	1.			

1-3 VCM-CF380 Supportive Mode Selection

1-4 VCM-CF380 Trigger Mode

Trigger Mode	Trigger Pins	Trigger Pins	Trigger Pins	Total	
mgger moue	Msg.	Msg.	Msg.	Msg.	
Single	X0 - X31			32	
(Direct Single)	32			52	
Cycle	X0 - X31			32	
(Direct Single Application)	32			52	
Bin 8 bit	[X0 - X7] <x8></x8>	X9 - X31		278	
(8 bits binary code with Strobe signal)	255	23		270	
Parallel Bin 8 bit	[X0 - X7]	X8 - X31		278	
(8 bits binary code without strobe signal)	254	24		270	
Bin 10 bit	[X0 - X9] <x10></x10>	X11 - X31		1044	
(10 bits binary code with Strobe signal)	1023	21		1044	
Parallel Bin 10 bit	[X0 - X9]	X10 - X31		1044	
(10 bits binary code without strobe signal)	1022	22		1044	
BCD	[X0 - X7] <x8></x8>	X9 - X31		123	
(BCD code with strobe signal)	100	23		123	

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Trigger Mede	Trigger Pins	Trigger Pins	Trigger Pins	Total	
ingger mode	Msg.	Msg.	Msg.	Msg.	
Parallel BCD	[X0 - X7]	X8 - X31		123	
(BCD code without strobe signal)	99	24		123	
Serial	Rx	X0 - X31		287	
(For RS-232/TTL Level)	255	32		207	
Serial Packet	Rx	X0 - X31		287	
Sofia Fucket	255	32		207	
Serial ASCII-LF, 256TG	Rx	X0 - X31		288	
(Up to 256 messages)	256	32		200	
Serial ASCII-LF, 512TG	Rx	X0 - X31		544	
(Up to 512 messages)	512	32		544	
Serial ASCII-LF, 1024TG	Rx	X0 - X31		1056	
(Up to 1024 messages)	1024	32			
Serial ASCII-LF, 7424TG	Rx	X0 - X31		7456	
(Up to 7424 messages)	7424	32		/430	
Serial + Single + RTCC	RTC	Rx	X0 - X31	415	
(Serial + Single with RTCC mode)	128	255	32	715	
Serial Packet + Single + RTCC	RTC	Rx	X0 - X31	415	
(Serial Packet + single with RTCC Mode)	128	255	32	115	
TCC + BIN8	RTC	[X0-X7] <x8></x8>	X9 - X31	406	
(KTCC mode +8 bits binary code with Strobe signal)	128	255	23	100	
RTCC + Parallel-BIN8	RTC	[X0-X7]	X8 - X31	407	
(KICC +8 bits binary without strobe signal)	128	254	24	+07	

<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 $\langle X8 \rangle$ and $\langle X10 \rangle$ as Strobe signal.

2. Option Settings

CF HMT VCM-CF Linker (R27)	
Eile Option View About	
1. Product 2. Option 3. Word 4. Sentence	5. Trigger 6. Make CFO 7. Program CFO
[BUSY Signal] [Er Ø BUSY is Lo-Active output Ø E BUSY is Hi-Active output E	ndOfVoice Signal] EOV is Lo-Pulse output EOV is Hi-Pulse output
[Debounce Time] TG-PIN Debounce Time 50 mS ST-PIN Debounce Time 80 mS	/ Pulse Time 50 mS
[Serial Port Spec.]	isc Options] Play beep when power-on or reset
Image: Second system Image: Second system Image: Second system Ima	Interruptible STG using Priority-Retrigger-Rule STG break CTG immediately BkgndCTG resumable when break by STG or CTG
VCM-CF380 BIN 8bit Mode, with RTCC	STG=LO Volt CTG=LO Volt Untitle.vcp

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.

HMT VCM-CF Linker (R27)	
File Option View About	
1. Product 2. Option 3. Word 4. Sentence 5. Trigger 6. Make CFO 7. Pro	ogram CFO
[BUSY Signal] [EndOfVoice Signal] BUSY is Lo-Active output Image: Construction of the second sec	
[Serial Port Spec.] 9600 bps Ø 8-N-1 <none parity=""> 8-O-1 <odd parity=""> 8-C-1 <codd parity=""> 8-E-1 <even parity=""> Serial Packet Identify Code] A valid packet = Leading1 + Leading2 + Maxup 31 Bytes Data + Ending1 + Ending2 Ash Unuse SAH</even></codd></odd></none>	ger-Rule
VCM-CF380 Serial Packet Mode STG=LO Volt Untitle.vc	p ///

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.

	Linker (R27)					
<u>File Option Vie</u>	w <u>A</u> bout					
1. Product	2. Option 3. Word 4. Sentence 5. Trigger 6. Make C	FO	7. Pi	rogra	am CFO	
Pla	iy Word Clear Word					Clear All Word
🗇 Disk_C (C:	TWV Files		inclu	de V	/AV files	
<u>⊜</u> C:\	🖬 01.TWV	-	01.v	vav		
Program		-	02.v	vav		
🗁 Sound	03.TWV	-	03.v	vav		
	04.TWV	-	04.v	vav		
	05.TWV		05.v	vav	1.1	
Word No. E	, TWA/filename		очые с Існ	BIT		Aliac name
		1.01	1	0	44.7	
VVUUUU	C:\Program Files\VCM_17R7_V6R34_C1R27_51D\Sound\U1.WV	16K	-	8	44.7	UI
W0001	C\Program Files\VCM_T7R7_V6R34_C1R27_STD\Sound\02.twv	44K	1	16	48.1	02
W0002	C:\Program Files\VCM_T7R7_V6R34_C1R27_STD\Sound\03.twv	44K	1	16	44.7	03
W0003	C:\Program Files\VCM_T7R7_V6R34_C1R27_STD\Sound\04.twv	44K	1	16	10.2	04
W0004	C:\Program Files\VCM_T7R7_V6R34_C1R27_STD\Sound\05.twv	16K	1	8	44.7	05
W0005 7						
W0006 2						
W0007 2						
wooon 2						
VVUUU8						_ _
						<u> </u>
VCM-CF380	BIN 8bit Mode, with RTCC STG=LO Volt CTG=LO V	/olt U	ntitle.v	сp		

3-1 Word Icons



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.

HMT ¥CM-CF Link	er (R27)								<u>_ </u>
<u>File Option View A</u>	bout								
1. Product 2. Option 3. Word 4. Sentence 5. Trigger 6. Make CFO 7. Program CFO									
N Play Word							Clear All Word		
Sisk_C (C:)	•	TWV Files				inclu	ide V	/AV files	
		🖾 01.TWV				01.5	wav		
Program File:	3 V&D34_C1D27	🗰 02.TWV			-	02.v	wav		
Sound	VUNJ4_CINZ7_	🚾 03.TWV			-	03.	wav		
		🚾 04.TWV			<u>_</u>	04.	wav		
		🖾 05.TWV			_	05.	wav		
1						-	_		
Word No F TW	V filename				S.R	СН	BIT	Sec.	Alias name 🔺
W0000 🚟 C:\F	Program Files∖V0	CM_T7R7_V6R34_C1R27	2_STD\Soun	d\01.twv	16K	1	8	44.7	01
W0001 💼 C:\F	^{>} rogram Files\V0	CM_T7R7_V6R34_C1R27	2_STD\Soun	d\02.twv	44K	1	16	48.1	02
W0002 🚌 C:\F	Program Files\VC	CM_T7R7_V6R34_C1R27	_STD\Soun	d\03.twv	44K	1	16	44.7	03
W0003 🚌 C:\F	Program Files\VC	CM_T7R7_V6R34_C1R27	_STD\Soun	d\04.twv	44K	1	16	10.2	04
W0004 🚌 C:\P	Program Files\VC	CM_T7R7_V6R34_C1R27	/_STD\Soun	d\05.twv	16K	1	8	44 7	05
W0005 ?					<u>P</u> la	iy Wor	rd 🛛		
W0006 2					⊆le	ar Wo	ord .	Ctrl+D	el
W0007 2						ar all	wora		
W0008 2					Edi	it alias	name		
VCM-CF380	BIN 8bit Mode, with	h RTCC	STG=LO Volt	CTG=LO Vo	lt Ur	ntitle.v	/cp		

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.

CF HMT VCM-CF Linker (R27)						<u> </u>
	. [c==: [:	. N. I. 050	1.2.0		1	
1. Product 2. Option 3. Word 4. Se	entence 5. Frigger 1	6. Make CFU	7. Proj	gram CFU		
Play Word	Clear Word				Clear	All Word
	Edit alias name					
	Current alias name for W004					
[2] C:\ IIII 0 IIII 0 IIII 2 Program Files IIIII 0 IIII 0	05					
	'lease enter new alias name (Ma	к up to 19 bytes)				
💭 Sound 🗰 04 M	MUSIC_05					
🖼 05						
	🖌 пк		X Cano	el		
Word No F TWV filename					-	î
W0000 C:\Program Files\VCM_T7R7_v	78R34_CTR27_STD\S000	מוטו.ושע דמא	<u> </u>	44.7	01	
W0001 C:\Program Files\VCM_T7R7_V	/6R34_C1R27_STD\Soun	d\02.twv 44K	(1 1)	3 48.1	02	
W0002 C:\Program Files\VCM_T7R7_V	/6R34_C1R27_STD\Soun	d\03.twv 44K	(1 16	6 44.7	03	
W0003 🚎 C:\Program Files\VCM_T7R7_V	/6R34_C1R27_STD\Soun	d\04.twv 44K	(1 - 16	6 10.2	04	
W0004 C.\Program Files\VCM_T7R7_V	/6R34_C1R27_STD\Soun	d\05.twv 16K	(18	44.7	05	
W0005 ?						
W0006 ?						
W0007 ?						
W0008 2						
VCM-CF380 BIN 8bit Mode, with RTCC	STG=LO Volt	CTG=LO Volt	Untitle.vcp			

[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.

	Linker (R27)							
<u>File Option Vi</u>	ew <u>A</u> bout							
1. Product	2. Option 3. Word 4. Se	ntence 5. Trigger	6. Make CFO	7.P	rogra	am CFO		
Play Word Clear Word								
Sisk_C (C) TWV Files		I	🗸 inclu	de V	/AV files		
🗁 C:\	01.TW	N		🕘 01.v	vav			
Program	Files 02.TW	N		<u>-</u> 02.v	vav			
Bound	03.TW	N		<u> </u>	vav			
	04.TW	N		<u>-</u> 04.v	vav			
	🖾 05.TV	N		<u>-</u> 05.v	vav			
Word No F	TWV filename		S.F	я Сн	віт	Sec.	Alias name	-
W0000 📻	C:\Program Files\VCM_T7R7_V	6R34_C1R27_STD\Sc	ound\01.twv 16	К 1	8	44.7	01	
W0001	C:\Program Files\VCM_T7R7_V	6R34_C1R27_STD\Sa	ound\02.twv 44	К 1	16	48.1	02	
W0002	C:\Program Files\VCM_T7R7_V	6R34_C1R27_STD\Sc	ound\03.twv 44	К 1	16	44.7	03	
W0003 📷	C:\Program Files\VCM_T7R7_V	6R34_C1R27_STD\Sc	ound\04.twv 44	К 1	16	10.2	04	
W0004 🔀	C:\Program Files\VCM_T7R7_V	6R34_C1R27_STD\Sc	ound\05.twv 16	К 1	8	44.7	MUSIC_05	フ
W0005 ?							\sim	
W0006 ?								
W0007 ?								
W0008 ?								-
	i		1				1	
VCM-CE380	BIN Shit Mode, with BTCC	STG=LO Vo		Untitle.v	/CD			

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.

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4. Sentence –Sentence schedule

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

CE HMT VCM-CF Link	er (R27)								
<u>File Option View 4</u>	About								
1. Product 2.	. Option 📔 3. Word	d 4. Sentence	5	5. Trigger 📔 6. M	/lake CFO	7. Pro	ogram CFO		
Available Mute 1 Sec Available Word W0002 : MUSIC_03							â		
			e •		10310_03				
Sentence\Step	Step000	Step001	St	tep002	Step003		Step004	Step005	^
Sentence0000	dMUSIC_01	ZM0.1Sec	٩I	MUSIC_02	ZM2.0Sec	;	MUSIC_03		
Sentence0001	MUSIC_03	<mark>≥</mark> M3.0Sec	1	MUSIC_04	M1.0Sec	;	MUSIC_05		
Sentence0002	¶MUSIC_02	M1.0Sec		Play Sentence					
Sentence0003	¶MUSIC_05	zM3.0Sec		Insert STEP	с	trl+Ins			
Sentence0004				Clear STEP Remove STEP	C	itrl+Del itrl+BkSp			
Sentence0005				Select Septence	(All STED)		-		
Sentence0006				Conviction of S					
Sentence0007				Paste selected :	STEP C	trl+P			
Sentence0008				Clear Sentence					
Sentence0009				Cl <u>e</u> ar all Senten	ce !!!				
Sentence0010									
Sentence0011									
Sentence0012	BLK_YourLabel	0R_R0_X[70]	۵	CMP_R0_03H	¦ ĜJZ_STEI	P006	MUSIC_01	≜ E0P	
•	1	··· -	<u> </u>		1		•	!''	
VCM-CF380	BIN 8bit Mode, with R	ITCC	_	STG=LO Volt C	TG=LO Volt	Untitle.vc	p		

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.

HMT VCM-CF Link	cer (R27)								_ 🗆 X
<u>File Option View</u>	<u>A</u> bout								
1. Product 2	. Option 📔 3. Wor	d 4. Sentence	5	5. Trigger 📔 6. N	/lake CFO 7	7. Progr	ram CFO 丨		
	2 🔏 🎇	Availab	le C	Dtrl EOP	•				Â
Available Mute 1 Sec Available Word W0002 : MUSIC_03									
Sentence\Step	Step000	Step001	St	ep002	Step003	St	ep004	Step005	-
Sentence0000	MUSIC_01	M0.1Sec	1	MUSIC_02	ZM2.0Sec	1	MUSIC_03		
Sentence0001		<mark>∞</mark> M3.0Sec	1	MUSIC_04	<mark>∞</mark> M1.0Sec	1	MUSIC_05		
Sentence0002	MUSIC_02	<mark>z</mark> M1.0Sec		Play Sentence					
Sentence0003	¶MUSIC_05	zM3.0Sec		Insert STEP	Ctrl+1	(ns			
Sentence0004				<u>C</u> lear STEP <u>R</u> emove STEP	Ctrl+L Ctrl+E	Del BkSp			
Sentence0005				Select Sentence	(All STEP)				
Sentence0006				Copy selected S	TEP				
Sentence0007				Paste selected S	5TEP Ctrl+F	2			
Sentence0008				Clear Sentence	!!!				
Sentence0009				Clear all Senten	ce !!!		1		
Sentence0010									
Sentence0011									
Sentence0012	BLK_YourLabel	ÅIOR_R0_X[70]	Â(CMP_R0_03H	ÅJZ_STEP00	6 📢	MUSIC_01	<mark>≜</mark> E0P	_
•		1							
VCM-CF380	BIN 8bit Mode, with R	RTCC		STG=LO Volt C	TG=LO Volt Unti	tle.vcp			

[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

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.)

CF HMT VCM-CF Lin	ıker (R27)						_ 🗆 🗙
File Option View	About						
1. Product	2. Option 3. Wor	d 4. Sentence	5. Trigger 6. I	Make CFO	7. Program CFO		
	<u>- * * </u>	Available	e Ctrl * BLK	You	urLabel 💌		â
Available Mute	1 Sec 🔹	Available	Word W0002		•		
Sentence\Step	0.8 Sec	Step001	Step002	Step003	Step004	Step005	<u> </u>
Sentence0000	1 Sec	<mark>≊</mark> M1.0Sec					
Sentence0001	3 Sec						
Sentence0002	4 Sec 5 Sec						
Sentence0003	6 Sec						
Sentence0004	7 Sec 8 Sec						
Sentence0005	9 Sec						
Sentence0006	15 Sec						
Sentence0007	20 Sec 25 Sec						
Sentence0008	30 Sec 🔽						
Sentence0009	d W0004						
Sentence0010	d W0000						
Sentence0011							
Sentence0012							_
VCM-CF380	BIN 8bit Mode, with F	RTCC	STG=LO Volt	TG=LO Volt U	Intitle.vcp		14

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"!

HMT VCM-CF Lini	ker (R27)							<u>_ </u>
<u>Elle Option view</u>	ADOUL 2 Option 1 2 Wor	4 Sentence		aor Í 6	S Maka CEO	1 7 Program CEO	1	
			p. mg	yei d	J. MARE CI O		1	
₩	z 🕺 🏶	Availabl	le Ctrl	MOV		R0 🔽 01H	H 🔽	â
Available Mute	1 Sec 💌	Availabl	le Word	JNZ JZ		•		
Sentence\Step	Step000	Step001	Step002	MOV		Step004	Step005	_
Sentence0000	d W0000	M1.0Sec		POP	Γ			
Sentence0001	d W0001			PUSH				
Sentence0002	d W0002			SETC				
Sentence0003	d W0003			ISHL ISHR				
Sentence0004	d W0004			SUB				
Sentence0005	4 W0000			TXD				
Sentence0006	d W0001			XCH IXOB	-			
Sentence0007	d W0002							
Sentence0008	d W0003							
Sentence0009	d W0004							
Sentence0010	d W0000							
Sentence0011	<mark>≜</mark> MOV_R0_01H							
Sentence0012								_
		1	1		1	i	1	
VCM-CF380	BIN 8bit Mode, with R	ttcc	STG=	=LO Volt	CTG=LO Volt	Untitle.vcp		11.

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)					_ 🗆	×
<u>File Option View About</u>							
1. Product 2. Option	3. Word 4. Se	entence 5. Trigge	r 6. Make (CFO 7. Pro	igram CFO 丨		
Available Sentence TG-Attrib : (L/E) (U/H) (N/I) (E) Edge (H) Hold (I) (L) Level (U) Unhold (N)Non-interruptible							
STG CTG Bkgnd	тg						
Input Name	Input Logic	VTG Code	L/E	U/H	N/I	Sentence Code	리
Х9	Low	STG 1F09H	Level 🛓	Unhold 🛔	N-Interrupt 🚔	S0000	
X10	Low	STG 1FOAH	Level 🛓	Unhold 🚽	N-Interrupt 🚽	S0001	
X11	Low	STG 1FOBH	Level 🛓	Hold 🖣	N-Interrupt 🚽	S0002	
X12	Low	STG 1FOCH	Level 🛓	Hold 🖣	N-Interrupt 🛓	\$0003	
X13	Low	STG 1FODH	Level 🛓	Unhold 🛓	Interrupt 🚊	S0004	
X14	Low	STG 1FOEH	Level 🛓	Unhold 🛓	Interrupt 🚊	S0005	
X15	Low	STG 1FOFH	Edge 🛓	Unhold 🛓	N-Interrupt 🛓	S0006 🔽	
X16	Low	STG 1F10H	Edge 🛓	Unhold 🚽	N-Interrupt 🚔	S0000	
X17	Low	STG 1F11H	Level 🛓	Unhold 🚽	N-Interrupt 🚔	S0002	
X18	Low	STG 1F12H	Level 🛓	Unhold 🚽	N-Interrupt 🚔	S0003 S0004	
X19	Low	STG 1F13H	Level 🛓	Unhold 🚽	N-Interrupt 🚔	S0005	
X20	Low	STG 1F14H	Level 🛓	Unhold 🚽	N-Interrupt 🚔	S0006 S0007	
X21	Low	STG 1F15H	Level 🛓	Unhold 🚽	N-Interrupt 🚔	S0008	
X22	Low	STG 1F16H	Level 🛓	Unhold 🚽	N-Interrupt 🛓	S0009	-
VCM-CE380 BIN 8bil	t Mode, with RTCC	STG=LO	Volt CTG=LO	Volt Untitle.vo		S0011	

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

HMT VCM-CF Linker (R27	')					_		
<u>File Option View About</u>								
1. Product 2. Option	n 🗍 3. Word 🗍 4. S	entence 5. Trigge	r 6. Make	CFO 📔 7. Pro	igram CFO			
Available Sentence TG-Attrib : (L/E) (U/H) (N/I) (E) Edge (H) Hold (I) Interruptible (L) Level (U) Unhold (N) Non-interruptible								
STG CIG Bkgnc	лар							
Input Name	Input Logic	VTG Code	L/E	∪/н	N/I	Sentence Code		
X8	Low	STROBE						
X7XO	11111111	СТБ ООН	Edge 🛓	Unhold 🚽	N-Interrupt 🚽	S0001		
X7XO	11111110	CTG 01H	Edge 🛓	Unhold 🛔	N-Interrupt 🚔	S0003		
X7XO	11111101	СТБ 02Н	Level 🛓	Hold 🖣	N-Interrupt 🚔	S0005		
X7XO	11111100	СТБ ОЗН	Level 🛓	Hold 🖣	N-Interrupt 🚔	\$0000		
X7XO	11111011	СТБ 04Н	Level 🛓	Unhold 🛔	Interrupt 🚆	S0002		
X7XO	11111010	СТБ ОБН	Level 🛓	Unhold 🛔	Interrupt 🚊	S0004 🗾		
X7XO	11111001	СТС ОбН	Level 🛓	Unhold 🛔	N-Interrupt 🚔	S0000		
X7XO	11111000	СТБ 07Н	Level 🛓	Unhold 🚽	N-Interrupt 🚔	S0001 S0002		
X7XO	11110111	СТС ОВН	Level 🛓	Unhold 🚽	N-Interrupt 🚔	S0003		
X7XO	11110110	СТС ОЭН	Level 🛓	Unhold 🚽	N-Interrupt 🚔	S0004		
X7XO	11110101	СТС ОАН	Level 🚆	Unhold 🔒	N-Interrupt 🚆	S0006 S0007		
X7XO	11110100	СТС ОВН	Level 🚆	Unhold 🔒	N-Interrupt 🚆	S0008		
X7XO	11110011	СТБ ОСН	Level 🚆	Unhold 🔒	N-Interrupt 🚆	S0009 S0010	Ţ	
VCM-CF380 BIN 8bi	it Mode, with RTCC	STG=LC	Volt CTG=LO	Volt Untitle.vo	p	S0011		

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

HMT VCM-CF Linker	(R27)						
<u>File Option View Abo</u>	ut						
1. Product 2. Op	ption 3. Word 4. Se	entence 5.	Trigger 6.1	Make CFO 📔 7. Pr	rogram CFO		
Available Sentence TG-Attrib : (L/E) (U/H) (N/I) S0009 (L) Level (U) Unhold (N) Non-interruptible							
STG CTG B	kgndTG						
Input Name	VTG Code	U/H	N/I	Sentence Code	Condition		
RTCC Schedule O	BkgndTG 1EFFH	Unhold	Interrupt 🚆	\$0000	08~18:00		
RTCC Schedule 1	BkgndTG 1EFEH	Unhold	Interrupt 🚆	S0001	SUN/09:00		
RTCC Schedule 2	BkgndTG 1EFDH	Unhold	Interrupt 🚆	S0002	MON/10~12:00		
RTCC Schedule 3	BkgndTG 1EFCH	Unhold	Interrupt 🚊	S0003	JAN-01/12:00		
RTCC Schedule 4	BkgndTG 1EFBH	Unhold	Interrupt 🚊	S0004	JAN-01/10~15:00		
RTCC Schedule 5	BkgndTG 1EFAH	Unhold	Interrupt 🚊	S0005	MON~FRI/06~20:30		
RTCC Schedule 6	BkgndTG 1EF9H	Unhold	Interrupt 🚊	S0006	WED/14:30		
RTCC Schedule 7	BkgndTG 1EF8H	Unhold	Interrupt 🚔	S0007	TUE/15~18:30		
RTCC Schedule 8	BkgndTG 1EF7H	Unhold	Interrupt 🚔	S0008	11:00		
RTCC Schedule 9	BkgndTG 1EF6H	Unhold	Interrupt 🚊	S0009	11:05		
RTCC Schedule 1	0 BkgndTG 1EF5H	Unhold	Interrupt 🚊	S0010	11:11		
RTCC Schedule 1	1 BkgndTG 1EF4H	Unhold	Interrupt 🚆		Double click for select s	Sentence or Attrib	
RTCC Schedule 1	2 BkgndTG 1EF3H	Unhold	Interrupt 🚆				
A Sabadula 1	S HERMATC IFFOR		II				
VCM-CF380 BI	IN 8bit Mode, with RTCC		STG=LO Volt	TG=LO Volt Untitle.v	°cp		

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.

1-1 To set Edge 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

Trigger signal :	High Low		
Voice Output :]	VOICE

2.) To set in an Unhold condition (External trigger signal is no need to hold) Ex. Use Low Trigger

Trigger signal :	High Low		
Voice Output :		 <u>ce</u> >	VOICE

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.

CF HMT VCM-CF Linker (R27)		
File Option View About		1
1. Product 2. Option 3.	Word 4. Sentence 5. Trigger 6. Make CFU 7. Program CFO	1
A. Assign CFO filename	B. Write down your description for this project	
S Disk_C (C:)	My project	
🗁 C/		
Program Files	C. Press button to make CFO file	
Sound	CFO Make CFO	View Report
Ci380		
		<u></u>
	HMT VCM-CF Linker	
	Project modified, Save VCP before make CFO !!!	
CEO filonomo		
mypri cfo	-	<u>.</u>
Гиурдов	_ T	Þ
VCM-CF380 BIN 8bit Mode,	with RTCC STG=LO Volt CTG=LO Volt Untitle.vcp	11

CFO Make CFO

make a CFO document

6-1 CFO File Saving

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

File Option View Al	er (R27) bout				<u>×</u>
1. Product 2.	Option 3. Word 4.	Sentence 5. Triqqer	6. Make CFO	7. Program CFO	
A. Assign C	VCP file 儲存於(1): 🔁 Sound			?× * ⊡•	
C:\ Program Sound C: Vcd360 C: Vcd380 サンcd380 米根 米根					View Report
	(上日)25%) 檔名(1): 存檔類型(1):	myproject.vcp VCM-CF Project file (*.vcp)	2	· 儲存③ 取消	
CFO filename	<u> </u>				ح
VCM-CF380	BIN 8bit Mode, with RTCC	STG=LO Vo	It CTG=LO Volt	Untitle.vcp	

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.

CF HMT VCM-CF Linker (R27)	
<u>File Option View About</u>	
1. Product 2. Option 3. Word 4. Sentence 5. Trigger 6. Make CFO 7. Program CFO	
A. Assign CFO filename Disk_C (C:) B. Write down your description for this project My project	
C. Press button to make CFO file CFO Make CFO Vcf360 Vcf380 C. Press button to make CFO file View	Report
W0000,PageSize=001397,Filename=C:\Program Files\UCM_T: W0001,PageSize=008283,Filename=C:\Program Files\UCM_T: W0002,PageSize=007697,Filename=C:\Program Files\UCM_T: W0004,PageSize=001757,Filename=C:\Program Files\UCM_T: W0004,PageSize=001397,Filename=C:\Program Files\UCM_T: PageSize of UCF_WIMG.BIN = 20531 Process ReadMe.txt PageSize = 1 Process OK !!! CFO file = C:\Program Files\UCM_T7R7_U6R34_C1R27_STD\myprj.cfo CFO size = 10708992 bytes /*=======*/ /*=====*/ /*======*/ /*======*/ /*======*/ /*======*/ /*======*/ /*=====*/ /*======*/ /*======*/	R7_U6R ▲ R7_U6R R7_U6R R7_U6R 'R7_U6R
Image: Control of the system of the	27. STD\Sour



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:

HMT VCM-CF Linker (R27)					_ 🗆 🗵
<u>File Option View About</u>						
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) Image: Constraint of the sentence C-Attrib : (L/E) (U/H) (N/I) Image: Constraint of the sentence C-Attrib : (L/E) (U/H) (N/I) Image: Constraint of the sentence C-Attrib : (L/E) (U/H) (I) Interruptible Image: Constraint of the sentence CONSTRAINT (U) Unhold (N) Non-interruptible						
STG CTG Bkgnd	та					
Input Name	VTG Code	U/H	N/I	Sentence Code	Condition	
RTCC Schedule O	BkgndTG 1EFFH	Unhold	Interrupt 🚆	\$0000	08~18:00	
RTCC Schedule 1	BkgndTG 1EFEH	Unhold	Interrupt 🚊	S0001	SUN/09:00	
RTCC Schedule 2	BkgndTG 1EFDH	Unhold	Interrupt 🚊	S0002	MON/10~12:00	
RTCC Schedule 3	BkgndTG 1EFCH	Unhold	Interrupt 🚊	S0003	JAN-01/12:00	
RTCC Schedule 4	BkgndTG 1EFBH	Unhold	Interrupt 🚊	S0004	JAN-01/10~15:00	
RTCC Schedule 5	BkgndTG 1EFAH	Unhold	Interrupt 🚊	S0005	MON~FRI/06~20:30	
RTCC Schedule 6	BkgndTG 1EF9H	Unhold	Interrupt 🚆	S0006	WED/14:30	
RTCC Schedule 7	BkgndTG 1EF8H	Unhold	Interrupt 🚊	S0007	TUE/15~18:30	
RTCC Schedule 8	BkgndTG 1EF7H	Unhold	Interrupt 🚆	S0008	11:00	
RTCC Schedule 9	BkgndTG 1EF6H	Unhold	Interrupt 🚊	\$0009	11:05	
RTCC Schedule 10	BkgndTG 1EF5H	Unhold	Interrupt 🚊	S0010	11:11	
RTCC Schedule 11	BkgndTG 1EF4H	Unhold	Interrupt 🚊		Double click for select s	entence or Attrib
RTCC Schedule 12	BkgndTG 1EF3H	Unhold	Interrupt 🚊			
VCM-CF380 BIN 8bi	t Mode, with RTCC		STG=LO Volt	TG=LO Volt Untitle.v	cp	

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:

VCM-CF Series Voice Module Operating Manual

CF HMT VCM-CF Linker (R27	7)	_02
1 Product 2 Ontion	a 3 Word 4 Sentence 5. Trigger 6 Make CE	E0 7 Program CE0
	Available Sentence TG-Attrib : [L/B]	(U/H) (N/I)
	S0001 (L) Level	(H) Hold (I) Interruptible (U) Unhold (N)Non-interruptible
STG CTG Bkgnd	ата	
Input Name	VTG Code U/H N/I Sentend	nce Code Condition
RTCC Schedule O	BkgndTG 1EFFH Unhold Interrupt 🚽 S0000	08~18:00
RTCC Schedule 1	BkgndTG 1EFEH Unhold Interrupt 🚽 S0001	SUN/09:00
RTCC Schedule 2	Condition editor for RTCC Schedule	MON/10~12:00
RTCC Schedule 3	RTCC expression (Date / Hour : Minute)	JAN-01/12:00
RTCC Schedule 4	MON~FRI/06~20:30 S Clear and	d exit JAN-01/10~15:00
RTCC Schedule 5	Style1: Month and day	MON~FRI/06~20:30
RTCC Schedule 6	Any 🔽 Hour (range) Minu	nute WFD/14+30 Double click for select Septence or Attrib
RTCC Schedule 7	Style 2: Day of week (range) 06 💌 20 💌 30	TUE/15~18:30
RTCC Schedule 8	MON FRI	
RTCC Schedule 9		11:05
RTCC Schedule 10	🔰 🗸 OK 🛛 🗶 Cancel	11:11
RTCC Schedule 11		
RTCC Schedule 12	BkgndTG 1EF3H Unhold Interrupt 🚔	
PTCC Schedule 12		
VCM-CF380 BIN 8b	it Mode, with RTCC STG=LO Volt CTG=LO Volt	olt C:\Program Files\VCM_T7R7_V6R34_C1R27_STD\Sour

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 unit is one minute]

9. TAPE Mode & Descriptions

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

HMT VCM-CF Linker (R27)					
<u>File Option View About</u>						
1. Product 2. Option 3. Word 4. Sentence 5. Trigger 6. Make CFO 7. Program CFO						
	Available Sentence TG-Attrib : [L/E] [U/H] [N/I] (E) Edge (H) Hold (I) Interruptible (L) Level (U) Unhold (N) Non-interruptible					
STG CTG Bkgnd	па					
Input Name	VTG Code	L/E	U/H	N/I	Sentence Code	Condition 🔺
X7 Tape-Play	sv					
X6 Tape-Pause	sv					
X5 Tape-Next	sv					
X4 Tape-Prev	sv					
Tape O	BkgndTG 1E00H	Edge	Unhold	N-Interrupt	S0000	
Tape 1	BkgndTG 1E01H	Edge	Unhold	N-Interrupt	S0001	
Tape 2	BkgndTG 1E02H	Edge	Unhold	N-Interrupt	\$0002	
Tape 3	BkgndTG 1E03H	Edge	Unhold	N-Interrupt	\$0003	
Tape 4	BkgndTG 1E04H	Edge	Unhold	N-Interrupt	\$0004	
Tape 5	BkgndTG 1E05H	Edge	Unhold	N-Interrupt	\$0005	
Tape 6	BkgndTG 1E06H	Edge	Unhold	N-Interrupt	\$0006	
Tape 7	BkgndTG 1E07H	Edge	Unhold	N-Interrupt	\$0007	
Tape 8	BkgndTG 1E08H	Edge	Unhold	N-Interrupt	\$0008	
IIII	Direndite 12000	l	1	l	1.0000	
VCM-CF360 Serial N	1ode, with TAPE		STG=LO Volt	c	:\Program Files\VCM_T7	R7_V6R34_C1R27_STD\Sour

- 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

 \bigcirc



Disconnection

Connection



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)



VCM-CF Series Voice Module Operating Manual

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

Q∕© ¥CM-CF `	TTY-	Terminal (R	5)												<u>_ D ×</u>
<u>F</u> ile ⊻CM-C	F380														
COM1	•	9600	•	8-N-1	•	NoFloy	wCtrl	•	\odot	9	€.	N.	S 🖄	31	<u>Re</u>
		7200													<u></u>
		14400													
		19200													
		28800													
		38400 57600													
		115200	-												
															*
•															
															<u></u>
4															
Disconnect															

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] <u>Sentence Play</u>: 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.

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.				

12. VCM-CF Malfunction Alarm Situations & Solutions

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

256 \times 1024 KB / **44.1** K = 5944 sec.

2.) 16 Bits

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

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

256 \times 1024KB / **44.1** K = 5944 sec. (8Bits) / 2 =2972 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.**