CASH TRACK PROGRAMMING GUIDE

1. Purpose

The purpose of the Text Insertion function is to make the DVR accept the text information coming from external devices like ATM machines, cash registers, and access control systems. The DVR stores the text information in the hard disk, and shows the information on the screen during a video playback. Through various interfaces for text review, the user can search for and playback a desired video.

The main functions include:

- DISPLAY Desired text information will be shown on the screen in the playback mode.
- 2. Various TEXT REVIEW interfaces, including:
 - FULL LIST Lists all the recorded text information page by page for selection.
 - BY STRING Searches all the text information including the desired strings.
 - BY DATE/TIME Lists some of the records with the text information within a desired period.
 - BY AMOUNT Lists some of the records with the text information whose cash amount meets the desired range.
 - BY COMBINATION Combines the above search interfaces on one and the same page.
- 3. Various EXCEPTION ALERT monitoring functions, including:
 - ALERT: A Trigger Alert signal after a specific number of exceptions. The number of exceptions and the reset time for the alert can be configurable.
 - BUZZER: The DVR Buzzer sound for exceptions.
 - FLAG: The DVR OSD flag display for exceptions.
 - NOTIFY: Notifies the remote viewer software after an ALERT has been generated.
 - FTP: Transfers images to an FTP server after an ALERT.

2. Specifications.

2.1 Hardware connection.

Connect the DVR and the text device through the RS-232 Null Modem Cable (Pin 2, Pin3 Cross over , Pin5 Ground).

2.2 RS-232 baud rate setting.

Baud rates can be set in the DVR, the baud rate selections including 2400, 4800, 9600, 19200, 28800, 38400, 57600 and 115200.

2.3 The maximum number of text information records.

For every 10.24 Giga bytes of hard disk capacity, the DVR reserves space for 32768 text records. Each hard disk keeps its own data in itself. In a DVR with two hard disks, the user can remove any one of them, and the remaining one will keep working.

For example, in the case of an 80G hard disk, the maximum number of recorded text information is $(80 / 11) \times 32768 = 229376$.

2.4 Data size.

Each text information contains up to 100 characters.

2.5 PROTOCOL.

The DVR supports the following two protocols; please set the appropriate one in the Setup Menu.

2.5.1 GENERIC.

All the text data is delimitated by CR (Carriage Return = 0x0d) and LF(Line Feed = 0x0a).

2.5.2 VSI-ADD.

The text data includes CHANNEL information for application in the multi-channel environment as follows:

0x1b, <CH>, <TEXT> , 0x0d.

3. Operation

3.1 Settings.

3.1.1 Text Insertion Protocol.

SETUP / RECORD / TEXT INSERTION.

Set one of the following:

3.1.1.1 **GENERIC**:

Text format : <TEXT >+ CR(0x0d) + LF (0x0a)

3.1.1.2 **GENERIC 2 CH**:

Text format : <TEXT >+ CR(0x0d) + LF (0x0a)

RS-232(Text channel 1), RS-485(Text channel 2)

3.1.1.3 **VSI-ADD**:

Text format: 0x1b + Ch + <TEXT> + CR(0x0d)

Note: The Text Insertion activates both the text data and the channel information in a DVR, and the remote viewer software takes effect after this option has been turned on.

3.1.2 RS232 Baud Rate.

SETUP / COMMUNICATION / BAUD

Set at the same speed as that in the Text Input device.

3.1.3 Firmware version and capacity usage.

SETUP / SYSTEM / VERSION.



The 2 numbers after "TEXT # :" are the current index number of the TEXT data and the total number of TEXT data.

3.1.4 Text color setting.

There are 8 options (BLUE, ORANGE, RED, MAGENTA, GRAY, WHITE, YELLOW, and GREEN); if the **TEXT INSERTION** option has been set as **VSI-ADD** protocol, and incoming texts come from different channels, all the messages of the channels could be set in different colors are shown as below.



3.1.5 Text display setting.

There are 2 options (BY CHANNEL, MIXED); If the **TEXT INSERTION** option has been set as **VSI-ADD** protocol, and incoming texts come from different channels, all the messages of the channels could be set in different channels. **By channel:** This mode shows a 4-channel screen where each channel displays information text against a background of images -- both the text and the images belong to that channel only.

Mixed: This mode shows a 4-channel screen where each channel shows its own images only; but the entire screen shows information text overlapping across all the channels. The data for all the channels will show as it comes in, without following any channel sequence by numerical order.

TEXT INSERTION	TEXT INSERTION
TEXT INSERTION: OFFTEXT COLOR: SETTEXT DISPLAY: BY CHANNELTEXT STAMP: ???REVIEW CONSTRAINT: ???PHRASE: #110EXCEPTION: #110	TEXT INSERTION TEXT COLOR TEXT DISPLAY BY CHANNEL TEXT STAMP MIXED REVIEW CONSTRAINT PHRASE EXCEPTION
MAIN PAGE	
TEXT DISPLAY	TEXT DISPLAY

3.1.6 Phrase setting.

The 100 built-in phrases enable the user to input the strings more quickly. Since users need to change the characters one by one when they input the string value in the search menu or search menu, the phrase offers another shortcut to input the common strings.

Enter SETUP/ RECORD/ TEXT INSERTION/ PHRASE

There are 11 options (1..10,11..20,.... 99..100," FACTORY DEFAULT"); please select one, and then enter the inner page for the string settings. The last one, "FACTORY DEFAULT", is used to go back to the default values.

TEXT INSEF	RTION
TEXT INSERTION TEXT COLOR TEXT DISPLAY TEXT STAMP REVIEW CONSTRAINT PHRASE EXCEPTION	# 110 #1120 #2130 #3140 #4150 #5160 #6170 #7180 #8190 #91100
▲ MAIN PAGE # 110	

TEXT INSE	RTION
TEXT INSERTION TEXT COLOR TEXT DISPLAY TEXT STAMP REVIEW CONSTRAINT PHRASE EXCEPTION	#1120 #2130 #3140 #4150 #5160 #6170 #7180 #8190 #91100 FACTORY DEFAULT
MAIN PAGE FACTORY DEFAULT	

PHF	RASE # 110	
1	[ACCOUNT]
2	[ALCOHOL]
3	[ALE]
4	[AMERICAN EXPRESS]
5	[ATM	j
6	[ΑΧ]
7	[BALANCE]
8	[BASS]
9	[BEER]
10	BOURBON	ī
		_

While the users input string data in the setup menu or search menu, they can also press the **SETUP** button to quickly acquire the required or relevant phrases; please see the following examples.



1	[ALE_				_] [00
2	[CAN	PHRASE	PAGE	5] [00
3	[CAS	ΕΧΤΡΔ] [00
4	[CAS	EXTRA LAR	GE] [00
5	[CHA	► FISH] [00
6	[CHE	GASOLINE] [00
7	[CIG	GIN			j į od
8	ĪCIG	HEINKEN			1 i i oo
9	icor				i ioo
10	TCOF	REG			

3.1.7 Exception setting.

Enter SETUP/ RECORD/ TEXT INSERTION/ EXCEPTION The purpose of using the exceptions is to filter some special string and alter the remote users. There are 4 options (1 ..10, 11..20, 21..25, "FACTORY DEFAULT"); please select one, and then enter the inner page for the string settings. The last one, "FACTORY DEFAULT", is used to go back to the default values.

In the right-hand side of the Exception Setting page is the exception count. If a number has been specified, the DVR will alert the remote Viewer Software when the number of the exceptions exceeds the number set here.



EXC	EPTION # 110	
1 2 3 4 5 6 7 8	[BEER [CANCEL [CASH BACK [CASH OUT [CHARGE [CHECK [CIGARETTES [CIGS]]]]]]
9	ICOMP	i
10	[CORRECTION	i
		NEXT PAGE

3.1.8 EXCEPTION PARAMETER.

In the EXCEPTION setting page, press the SEARCH button to enter the EXCEPTION PARAMETER setting page. In the PARAMETER EXCEPTION setting page, press the SEARCH button to return to the EXCEPTION setting page.

For each EXCEPTION, the user can set the following parameters.

3.1.8.1 CNT (Count) 0..99

When the number of exceptions exceeds this number, the DVR will generate an ALERT event. If this number is set as 0, any exception will be ignored.

3.1.8.2 RST (Reset Time) 0..24

If no exception has been detected for a certain number of hours, the Exception count (in 3.1.8.1) will be reset to 0.

Note: For exception #26, CNT is not used.

3.1.8.3 BUZ (Buzzer) Off/ On.

If the BUZ has been set as ON, the DVR will generate a buzzer sound as a warning when an exception has been detected. The duration depends on the DWELL setting (3.1.8.7).

Note: The buzzer setting in SYSTEM/ BUZZER must also be set as ON, or the function will not take effect.

3.1.8.4 FLG (Flag).

If the FLG has been set as ON, the DVR will show a mark (*) on the screen, and keep flashing for a duration depending on the setting in DWELL(3.1.8.7).

3.1.8.5 NFY (Notify Remote).

If the NFY setting has been set as ON, the DVR will notify the remote viewer software when the ALERT event has been generated. At the same time, a message "ALT" will be shown on the screen.

3.1.8.6 FTP.

If the FTP setting has been set as ON, the DVR will start to send pictures to an FTP server after the ALERT event has been generated. The rate is fixed at 1f/ 1s, and the duration is 10 sec.

Note: The settings in the FTP SETTING must also be properly set, or the function will not take effect. The FTP SETTING/ FTP MODE item must be set especially as EXCEPTION.

3.1.8.7 DWE (DWELL).

The durations for the above BUZ (3.1.8.3) and FLG(3.1.8.4)functions are shown as below.

EXC	EXCEPTION # 110						
	CNT	RST	BUZ	FLG	NFY	FTP	DWE
1	05	01	ON	ON	ON	OFF	03
2	05	01	ON	ON	ON	OFF	03
3	05	01	ON	ON	ON	OFF	03
4	05	01	ON	ON	ON	OFF	03
5	05	01	ON	ON	ON	OFF	03
6	05	01	ON	ON	ON	OFF	03
7	05	01	ON	ON	ON	OFF	03
8	05	01	ON	ON	ON	OFF	03
9	05	01	ON	ON	ON	OFF	03
10	05	01	ON	ON	ON	OFF	03
	PREV PAGE						

3.1.9 AMOUNT EXCEPTION.

In the EXCEPTION setting page, #25 is a special item for amount exception. When the amount exceeds this number, the DVR will generate an Exception event, too.



3.1.10 POS DATA LOSS EXCEPTION

In the EXCEPTION setting page, the #26 is a special item for POS data loss exception. If no data enters the DVR over a specified time, the DVR will generate an alert to notify the remote viewer, start the FTP function, etc.

To activate this function, please set the start and end time for the POS DATA LOSS monitoring int the TIMER page in setup menu.

3.2 System Connection.

3.2.1 Single Device Connection.

When only one Text device (such as a cash register) is used, please set the setting in the Setup Menu according to 3.1.1.1.



3.2.2 Two Devices Connection. (without Hydra)

When only two Text device (such as cash registers) are used, please set the setting in the Setup Menu according to 3.1.1.2.



3.2.3 Multiple Devices Connection.

By using AVE REGCOM and HYDRA, a multiple cash register can be linked together through an RS-485, and can finally connect to the DVR through the RS-232.

The following is an example of 4 cash registers connected to a DVR. For proper setting, please refer to 3.1.1.3 section in this chapter. No need Text insertion on the Video.



Text insertion on the Video .



By using AVE VSI-PRO MAX



ATM application





Multiple ATM application





3.2.4 LIVE DISPLAY.

After the hardware has been connected, please power up the DVR. The DVR is by default in the LIVE mode. Press the **DISPLAY** button to switch to different display modes; under any one of the following modes, the contents of the received text data will be shown on the screen.

3.2.3.1 Simple Text Display Mode.

An example:

On the left-lower corner, the OSD message "SM TOMATOS .48" is the newest incoming TEXT data.

CH1		CH2	
СНЗ		CH4	
SM TOMATOS	.48		
		01-05-2006	14:26:25

3.2.4.1 Full Text Display Mode.

All the incoming TEXT data are shown in the middle of the screen; the previous data is scrolled up when the latest one arrives.

3	ALE	.58	
4	PLUM RED	.68	
1	10-01-97	10:53P	
2	NECTARINES	1.78	
3	10-01-97	11:20P	
4	MILK	5.72	
1	SM TOMATOS	.48	
2	CLASSIC COKE	.58	
3	BREAD	.98	
4	BANANAS	1.52	
		01-05-2006	14:26:25

If the TEXT INSERTION option has been set as **VSI-ADD**, and incoming texts come from different channels.

A percentage bar in the right-lower corner reveals the text data usage. For example, if the total number of text data is 65536 and the number of the current used text data is 32768, the bar will be shown about 50% full. For the precise number please refer to SETUP/ SYSTEM/VERSION in the local device OSD.

3.2.5 RECORDING

When the text data continuously inputs from the Text device, press the REC button to activate recording; while the DVR is in the RECORD mode, there is a small red ball periodically flashing in the right-upper corner of the screen. Please press the DISPLAY button to switch to a desired mode to observe the incoming TEXT data.

To stop recording, please press the REC button and hold for more than3 seconds before releasing.

3.2.6 PLAYBACK.

Press the SEARCH button to enter the Search Menu, highlight a desired item in the list, and then press the ENTER button to start playback. During playback, the DISPLAY can also be used to switch to the display modes, to see the Text data that was received when the corresponding video was recorded. The Text data is shown even in the trick play mode, like fast forward and slow motion. If the TEXT INSERTION option has been set as **VSI-ADD** and incoming texts come from different channels.

3.2.7 REVIEW TEXT.

Press the **SEARCH** button and hold for more than 3 seconds. The **REVIEW TEXT** mode will then be activated, with 6 items for selection.

REVIEW TEXT	
FULL LIST BY STRING BY DATE / TIME BY AMOUNT	
BY COMBINATION ALERT LOG	

3.2.7.1 FULL LIST.

If the TEXT INSERTION in the Setup Menu is set as GENERIC (refer to

3.1.1 section in this chapter), the list is shown as below.

HC	01			
1013	01-05-06	14:13:22	SANDY 0004	
1014	01-05-06	14:13:22	PLUM RED	
1015	01-05-06	14:13:22	ALEX 0005	
1016	01-05-06	14:13:22	PLUM RED	
1017	01-05-06	14:13:22	10-01-97 1	
1018	01-05-06	14:13:22	NECTARINES	
1019	01-05-06	14:13:22	10-01-97 1	
1020	01-05-06	14:13:22	MILK	
MILK	į	5.72		
			01-05-2006	14:26:25

Alternately, if the TEXT INSERTION is set as VSI-ADD,

the following channel selection screen will be shown first as the input of the desired channel. The selectable options are ALL, CH1, CH2, CH3 and CH4.

6:25

Once a channel is selected and the **ENTER** button is pressed, all the Text Data of the particular channel will be listed.

	- /			
H	D1		CH 1 2 3	4
781	01-02-06	11:34:12	CASH	
782	01-02-06	11:34:12	CHANGE	
783	01-02-06	11:34:12	ALEX 0005	
784	01-02-06	11:34:13	PLUM RED	
785	01-02-06	11:34:13	10-01-97 1	
786	01-02-06	11:34:13	NECTARINES	
787	01-02-06	11:34:13	10-01-97 1	
788	01-02-06	11:34:13	SANDY 0004	
SAN	DY 0004 24	1536		
			01-02-2006	18:59:25

3.2.7.2 BY STRING.

The "BY STRING" function offers an interface to search for some specific material. The text may include names of personnel, goods, cash totals and balances, and/ or other miscellaneous items. If you want to access the records of a particular goods, see the "TEXT" entry and type in its name. At once you may find classifications, appearing under the category of that particular goods if such classifications exist. If you enter "COKE", you'll see both "COKE" and "CLASSIC COKE" listed, for instance. You can highlight the one you want, and start to playback.

If the TEXT INSERTION is set as **GENERIC**, the "BY STRING" screen will have only a "TEXT" string as input. Up to 16 characters can be input for searching.

If the TEXT INSERTION is set as **VSI-ADD**, there is a channel item which will show on the screen, too.

BY STRING	
CHANNEL ALL	
ΤΕΧΤ []
01-02-2006	19:26:55

To search for a two-word string, please enter the words with one space between the words, for example, "SANDY 0004"

BY STRING	
CHANNEL ALL	
TEXT [SANDY 0004	1
01-02-2006	19:27:30

3.2.7.3 BY DATE/ TIME.

This function offers an interface to list the data within a specific time period. If the TEXT INSERTION is set as **GENERIC**, the "BY DATE/ TIME" screen will have starting DATE TIME items and ending DATE/TIME items as inputs.

If the TEXT INSERTION is set as **VSI-ADD**, there is a channel item which will be shown on the screen, too

01 / 02 / 2006 00 00
MM DD YEAR HH MI
01 / 02 / 2006 23 59

3.2.7.4 BY AMOUNT.

This function offers an interface to search above and under a particular amount across the transactions recorded in the different channels.

If the TEXT INSERTION is set as **GENERIC**, the "BY AMOUNT" screen will have only 2 sets of entries each under "OPERATION" and " AMOUNT" as inputs.

The selectable operations are ">=", ">", "=", "<" and "<=".

If the TEXT INSERTION is set as **VSI-ADD**, there is a channel item which will show on the screen, too.



The following are some examples for your operations.

- A. To search Amount >= 1.00, the following items are shown on the screen.
 - >= 00001.00
 - -- 00000.00

B. To search Amount <= 1.00, , the following items will be shown on the screen.

- <= 00001.00
- -- 00000.00
- C. To search Amount = 1.00, the following items appear on the screen.
 - = 00001.00
 - -- 00000.00
- D. To search 1.00 <= Amount <= 10.00, the following items will show on the screen.
 - >= 00001.00
 - <= 00010.00
 - or
 - <= 00010.00
 - >= 00001.00
- E. To search Amount <= 1.00 OR Amount >= 10.00, the following items will be shown on the screen.
 - >= 00010.00
 - <= 00001.00
 - or
 - <= 00001.00
 - >= 00010.00

Note: If two operations are set and those two are exclusive of each other, the system will automatically add an "OR" between them. Otherwise, the system adds an "AND" between them.

3.2.7.5 BY COMBINATION

BY COMBINATION	
CHANNEL	ALL
STRING	SET
DATE/ TIME	SET
00/00/0000 23:59:00 AMOUNT >= 0010.00	SET
► MOVE ▲▼CHANGE □ S	EARCH

BY COMBINATION is the combination of the above search interfaces. The user can give the different conditions on the same page. The search procedure can be repeated between the BY COMBINATION page and the search result page (TEXT LIST).

If the TEXT INSERTION is set as **VSI-ADD**, there is a channel item which will show on the screen, too.

In this page, please use the < and > buttons to move between items, and use the ^ and v buttons to change the values. Once the value has been set to "SET", please press the ENTER button to enter the "BY STRING"," BY DATE/ TIME" and " BY AMOUNT" pages for further settings. For the operations in the lower level pages, please refer to section 3.2.6.2, 3.2.6.3 and 3.2.6.4 in this chapter. When you are in those lower level pages, press the ENTER button to go back to " BY COMBINATION". After all the conditions have been set properly, please press the SEARCH button to start searching. In the "TEXT LIST" page, please press the ENTER button to start playback, and press the SEARCH button to return to the "BY COMBINATION" page.

3.2.7.6 REVIEW CONSTRAINT

If the item has been set as any of the monthly options(between 1-4 months), all search functions on the REVIEW TEXT page will fall within that constraint. This function is for improving the speed for the REVIEW TEXT function.

TEXT INSER	TION
TEXT INSERTION TEXT COLOR TEXT DISPLAY TEXT STAMP REVIEW CONSTRAINT PHRASE EXCEPTION	OFF 1 MONTH 2 MONTH 3 MONTH 4 MONTH
1 MAIN PAGE	
1 MONTH	

3.2.8 ALERT LOG

The Alert Log keep the latest 100 alerts for check and playback, the records marked as ">" are playable. Some alert could not be playbacked since it occurred when DVR was not in the RECORD mode. Please press ENTER button on the playable item to start the playabck.

	ALERT LO	G		
93	08/29/2007	18:13:51	TOTAL	>
94	08/29/2007	18:13:55	TOTAL	>
95	08/29/2007	18:13:59	TOTAL	>
96	08/29/2007	18:14:05	TOTAL	>
97	08/29/2007	18:14:09	TOTAL	>
98	08/29/2007	18:14:14	TOTAL	>
99	08/29/2007	18:14:17	TOTAL	>
100	09/04/2007	11:36:45	TOTAL	>
тот	AL			
		09-0	1-2007 14	:26:14

3.2.9 LOAD/ SAVE the Text Insertion Setting

For quickly save and load the settings onto the SD card, please enter the setup menu, SETUP/ SYSTEM/ SD SETUP/ (LOAD/ SAVE) The filename is TEXTINS.BIN

3.2.10 Text data stamp on AVI file

The successive text data will be stamped as continuously input feedback over the AVI pictures. The text data will either be stamped on different corners for different channels, or there will be a mixed display (combining all the channels together), depending on the TEXT DISPLAY setting in the Setup menu/ RECORD/ TEXT INSERTION page.

TEXT INSERTION	
TEXT INSERTION TEXT COLOR TEXT DISPLAY TEXT STAMP OFF REVIEW CONSTRAINT PHRASE EXCEPTION	
MAIN PAGE	

The AVI file playbacked in Microsoft Media Player

C O	RENK	單鍵機	爆吹	抗師	Røsti	
			0 50 0 00 8 730 10 07	total Cash Change	0.73 10.00 1.27	
				CADII CI ANU	10 00 1 03	
M0011	00.04	- - X 0	-24-2007	>>:55:24 ►►► •	•••)-/	

3.2.11 POS data backup

The DVR will extract the POS data from the video data and save it to an SD card as a text-only file.

Enter the Setup menu/ DISK / HD BACKUP/ TXT TO SD CARD

DISK SETTING			
HD REFORMAT HD BACKUP HD FAT32 SD FILE AUTO ERASE SD REFORMAT CD ERASE MAIN PAGE	: HD : TEXT TO SD CARD : BUILD : JPEG : SET : START : START		

The exported pure text file.

D T0016.TXT			
檔案(E) 編輯(E) 格式(2) 檢視(♡)	説明(H)	
SANDY 0004 24536 10-01-97 10:53P Alex 0005 24537 SM Tomatos . 10-01-97 11:20P Sandy 0004 24536	48		
PLUM RED . BREAD . 10-01-97 10:53P NECTARINES 1.	68 98 78		
HLEX 0005 24537 Plum RED . SM Tomatos . Classic Coke . 10-01-97 11:20P	68 48 58		
MILK 5. Plum RED . Bananas 1.	72 68 52		≥

3.2.12 Syncronize to VSI

Connect the DVR with Hydra through RS232 (or RS485). Enter the Setup menu/ TIMER/SEQ/TITLE / CLOCK page, move the highlight to SYNC TO VSI - START, press the ENTER button, and a new date/time will replace the old one.

DATE /	TIME
12/28/2007	
13:43:01	GMT: +8
SYNC TO VSI	START
< > MOVE	^ v CHANGE

The DVR will automatically start the time synchronization after POWER ON and every midnight (the exact time is 23:59:31).

3.2.13 VSI-Pro Programming via DVR



VSI-Pro MAX Programming via DVR

Press and hold "Setup " button 3 second then release "Setup " button VSI CONTROL MENU appear

VSI CONTROL MENU				
	VSI NO . 1 VSI NO . 2 VSI NO . 3			
	VSI NO . 4			

Press " ^ " or " v " button for select the VSI PRO NO. then press " Enter " Button for go to the VSI PRO Menu.

O ISTER SELECT O SCREEN SF (UNTROLLI) O TEXT DISPLAY O COMMUNICATION O EXCEPTION REPORT O ALARM OUTPUT O TEST / DEMO MODE O DOWNLOAD/UPLOAD SETUP O HELP	NG VSI NO.1 CH2
CH3	CH4
^ UP v DOWN < SET	> PRESET setup EXIT

Press " ^ " or " v " button for select VSI-PRO menu press " < " for enter the menu press " > " for reset and press " SETUP " for exit and turn back to VSI CONTROL MENU and press " SETUP " again for turn back to normal operating .

4. Simulation by using PC software "RegOnPC".

4.1 Enable the Text Insertion function of the DVR.

- 1. Enter the COMMUNICATION page in the SETUP Menu, check if there is an item named "TEXT INSERTION". Please set it as GENERIC or VSI-ADD; here we recommend you set it as VSI-ADD to test the multiple-channel text input.
- 2. Set BAUD at 9600 in the SETUP Menu/ Communication page.
- 3. Connect at least one video source to the DVR for the recording.

4.2 Connect PC and DVR.

Please connect your PC and DVR with the RS232 Null Modem Cable.

4.3 Install the simulation software.

- 1. RegOnPC is a cash register simulation software. Please double click "Setup.exe" to install it, and then just follow the instructions on the screen for each step.
- 2. If you have a previously installed version, please remove the former one first.

3. After the installation is successfully completed, please run it; the screen will look like the following.

🚵 Re	gOnPC 1.0								
	Text					<	Send 1 START STOP	Com Port Com3 💌 Baud Rate 9600 💌	
	Protocol Speed	VSI-ADD	Ch1	Ch2	Ch3	Ch4		Exit	0
	Adva	nced							4

4.3.1 Com Port setting.

Please set the Com Port to an appropriate setting, depending on which port is used in the PC.

Com Port	
Com1 💌	
Com1 Com2 Com3 Com4 Com5	

4.3.1 Baud Rate setting

Please set the BAUD Rate at 9600, the same as the setting in the DVR.

Baud Ra	te
9600	-
2400	
4800	
9600	
19200	
20400	
57600	
115200	

4.3.2 Protocol setting.

There are two protocols for selection. Here we suggest you set your software to VSI-ADD for multi-channel testing.

Protocol	VSI-ADD
	Generic VSI-ADD

A. GENERIC

If the GENERIC has been chosen, the output text will be delimitated by CR(0x0d) and LF(0x0a).

Under the GENERIC option, only CH1 output will be enabled.

To test the "GENERIC 2CH" on DVR, please use this option, too. The only difference is the RS232/ RS485 connection.

B. VSI-ADD.

If VSI-ADD has been selected, the output text will be in the VSI-ADD format; please ref. to 3-1-1-1.

Under the VSI-ADD option, CH1, CH2, CH3 and CH4 can all be turned ON or OFF separately.

4.3.3 START/ STOP Transmission.

Click the START button to start transmission and click END to stop transmission.

4.3.4 Speed Adjustment.

Please adjust the transmission with the SPEED Slide Bar.

Speed	•	► I

4.4 Test Procedure

The Simulation software "RegOnPC" acts as the "Hydra", 4 "RegCom", and 4 cash registers.

Please follow the steps below to test the DVR.

- Step 1. Please make sure that the DVR is in the LIVE mode. Press the DISPLAY button and switch the DVR display to the Full Text Display Mode. Now the continuously scrolled text will show on the screen.
- Step 2. Press the REC button to start recording for about 30 seconds or more.
- Step 3. Press the REC button and hold for at least 3 seconds to stop the recording.
- **Step 4.** Press the SEARCH button, select FULL LIST and press the ENTER button to playback the latest recorded video. Please check if the just recorded text can be shown at the same time.
- Step 5. Press the STOP button to stop the above playback, then go back to the LIVE mode, press the SEARCH button and hold for at least 3 seconds; now enter the REVIEW TEXT
- Step 6. Select FULL LIST and press the ENTER button, select ALL in the CHANNEL item, and press the ENTER button again to enter the FULL LIST page. All the recorded texts will be shown in list and display in different colors. If CH1. has been set in the CHANNEL item, the FULL LIST page will only show all the data coming from CH1.
- **Step 7.** In Step 5, select "BY STRING" and input the string, for example, "COKE", and press ENTER; all the search results will be shown in a list.
- Step 8. In Step 5, select "BY DATE/ TIME", then input the desired channel and the time range, including the starting time and the ending time; next, press the ENTER button, and all the search results will be shown in a list. If the time period you input is wrong(like 01/01/2006 2:00 to 01/01/2006 1:00),your request will be ignored.
- Step 9. In Step 5, select "BY AMOUNT", then input the desired channel, operations and amounts. For example, if >= 1.00, <= 2.00, press the ENTER button, and all the search results will appear as a list.
 Please ref. to 3-2-6-4 for a detailed description of the above complete operations.