

# DriveView 2 Guide

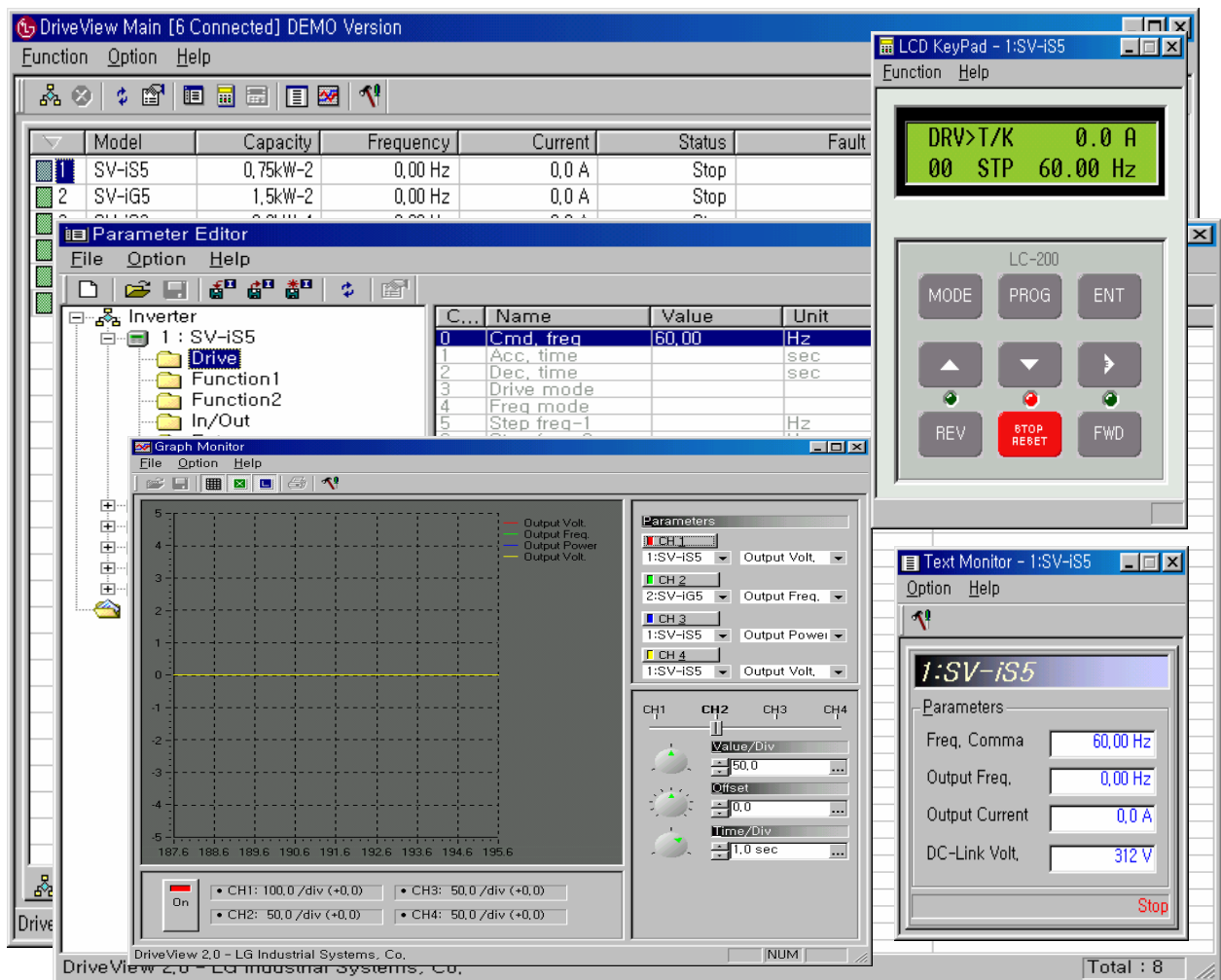
1. Introduction
2. Applying Drive View
3. Program Set-up
4. Parameter Editor
5. Keypad Emulation
6. Text Monitor
7. Graph Monitor
8. Trouble shooting

LGIS

## Drive View 2

### 1. Introduction

The “Drive View” software offers Windows based computer monitoring tool through RS-485 interface with graphic monitor, keypad emulator, parameter editor, and text monitor.



### 2. Applying Drive View

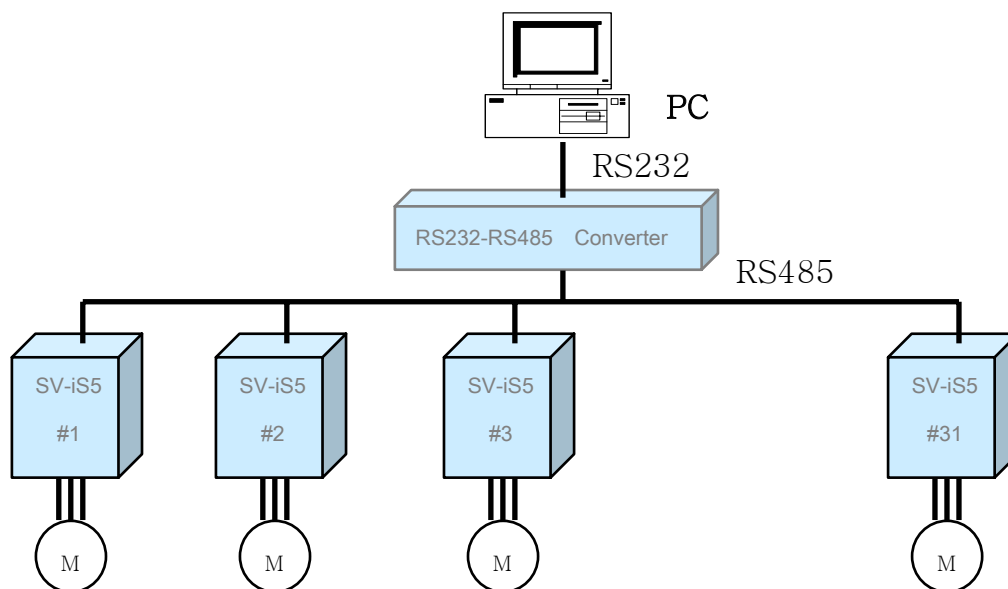
Connect PC's communication port (RS232) with inverter's communication terminal by using RS232/485 converter.

Reference:

- Inverter addressl can be set any number between 1 ~ 31, and each inverter's address should be different from one another.
- Suggest to use RS232/485 converter with TXENABLE signal automatic reproducer and Isolated signal model.
- All inverter's baud rate(BPS) setting should be same.
- In order to get less affected by noise, need to use terminal resistor at the end of inverter side of terminal.

### Basic specification

- Communication method : RS485 (LG Inverter's protocol)
- Communication speed : 1200, 2400, 4800, 9600, 19200 [BPS]
- Max Up to 31
- 8 Data bit,1 Stop bit,No parity
- Inverter type : SV-iS3, SV-iS5, SV-iG5, SV-iH, SV-iV5
- Windows95/98/2000



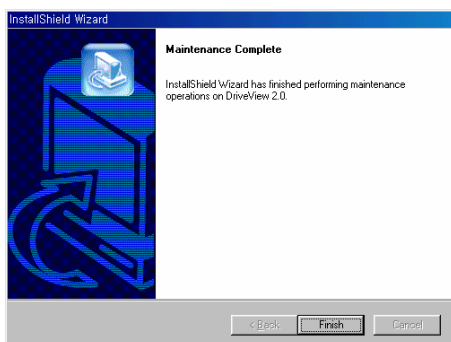
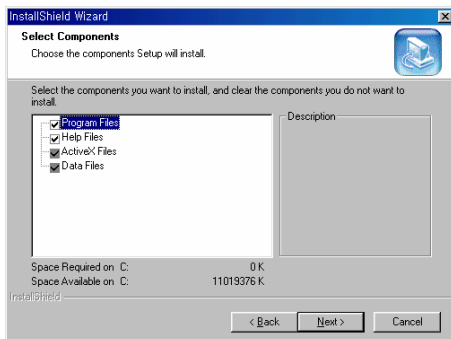
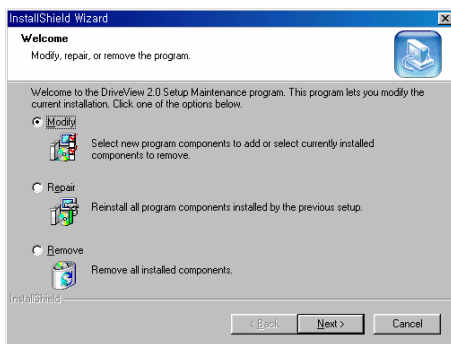
### 3. Program Set-up

Software:

- Drive View 2.0: The software for field use.
- Drive View 2.0 Demo: The software for computer demonstration use.

Program Set-up: It is very easy to set-up the program.

Just open “DriveView20.exe” or “DriveView20 Demo.exe” file, then keep clicking “Next” button until the set-up process is done.

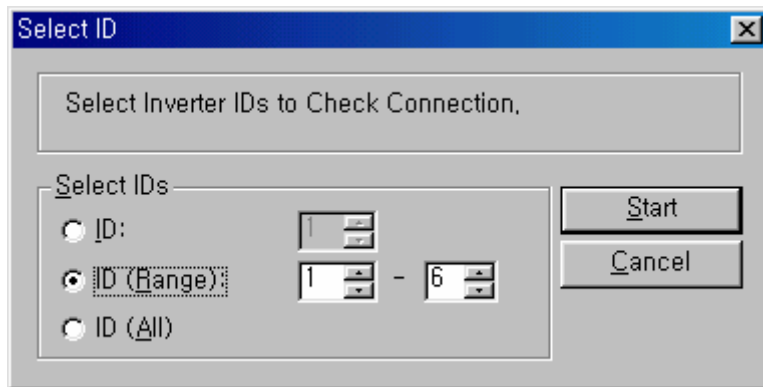
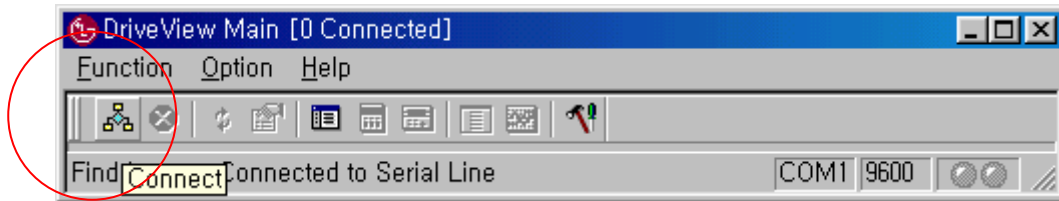
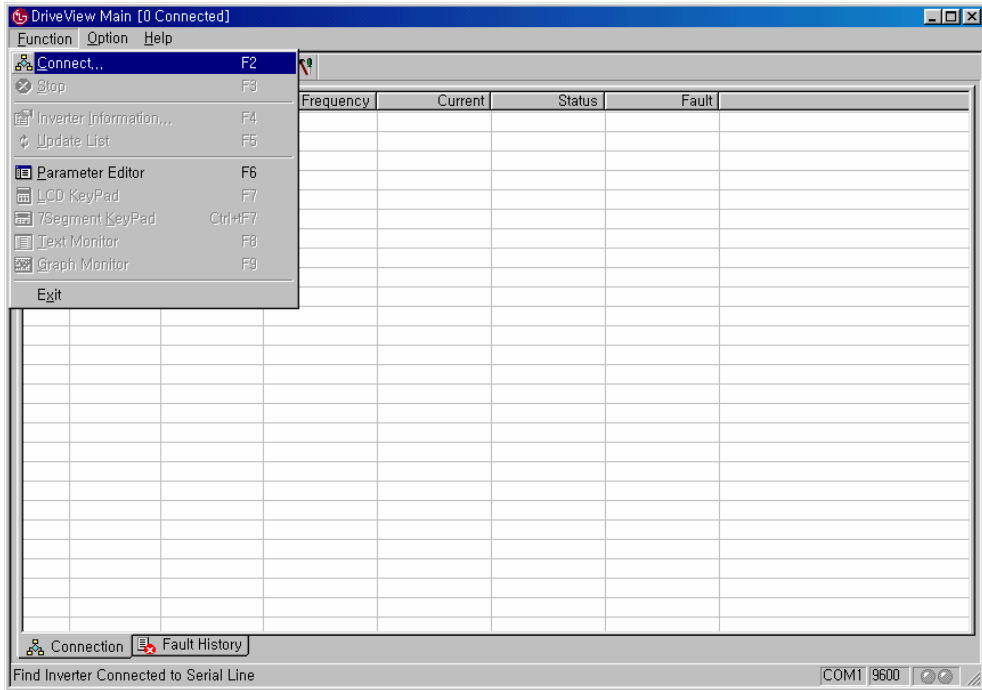




## (2). Connecting Inverter

User can search for the inverter he/she wants through following

Go to “Function” → “Connect” (or select **CONNECT Icon**)

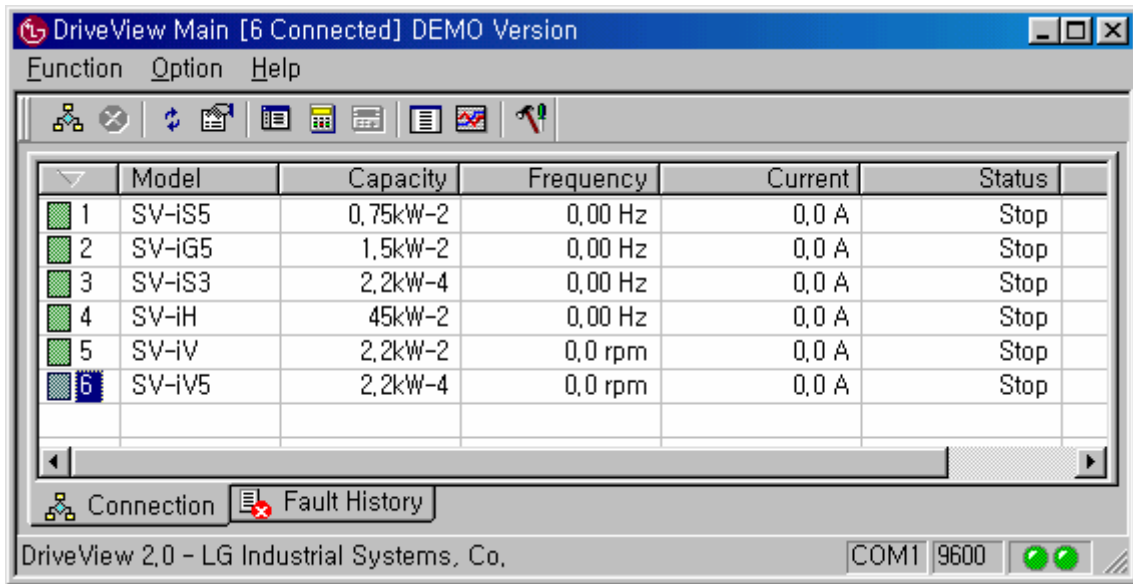


ID: search just one channel

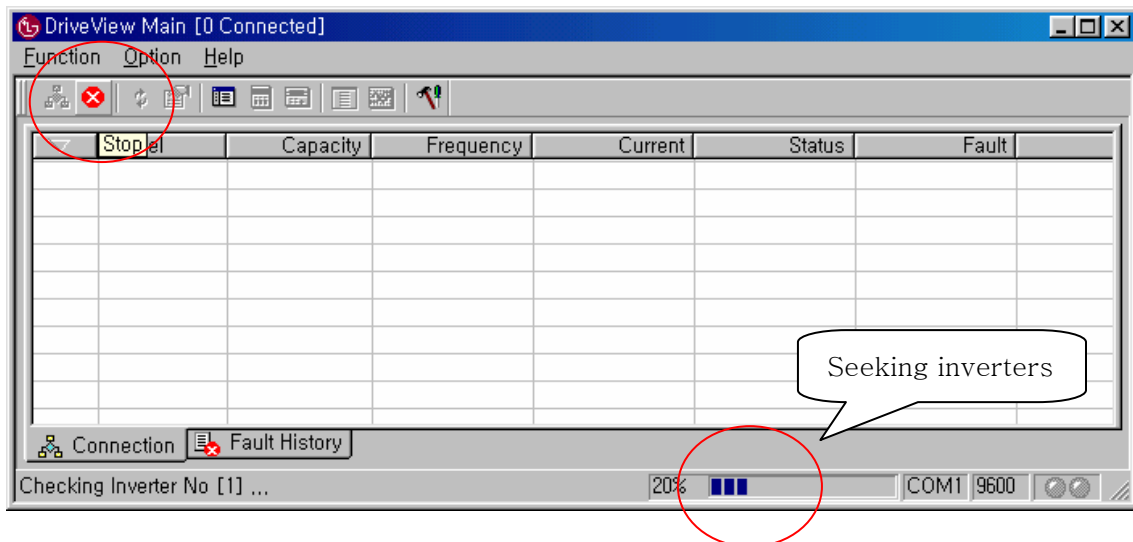
ID(Range): can select the search range (1~31)

ID(All): Search from all channels

Select ID and press Start button.

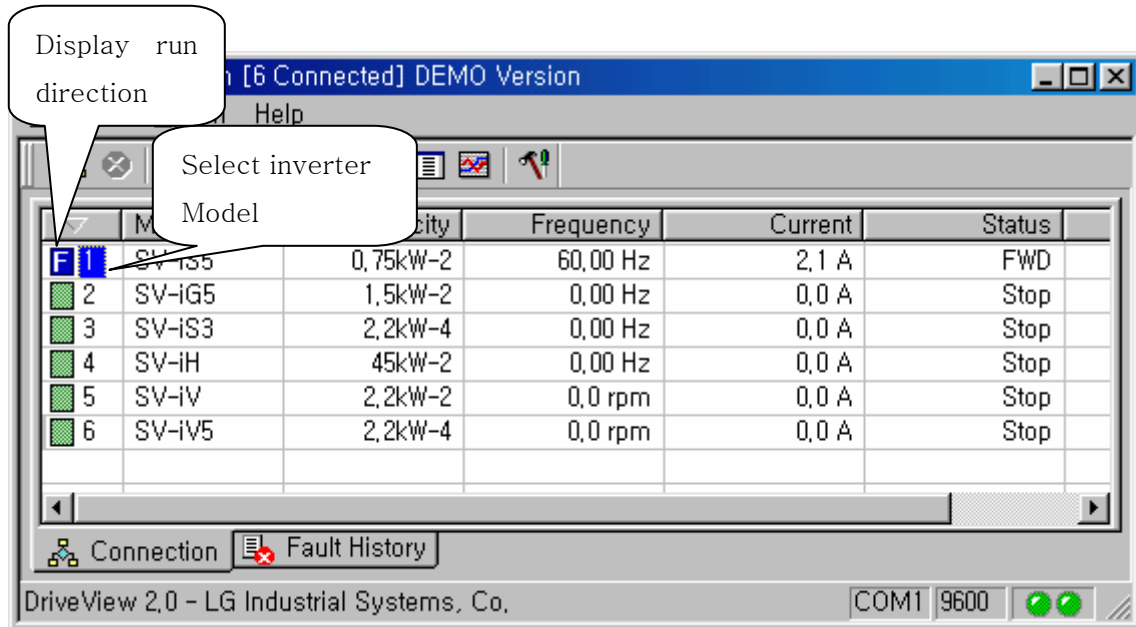


Stop : Press Stop Icon during seeking inverters



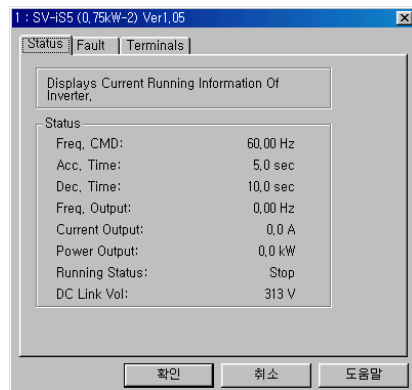
### (3) Select Inverter

Select Inverter model to display information, keypad, text monitor window

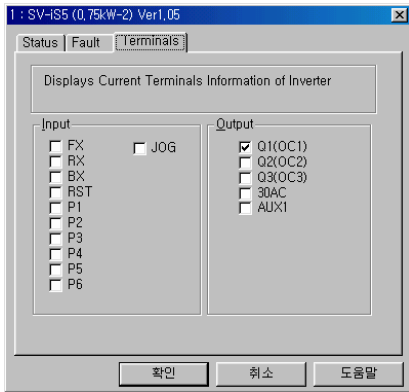
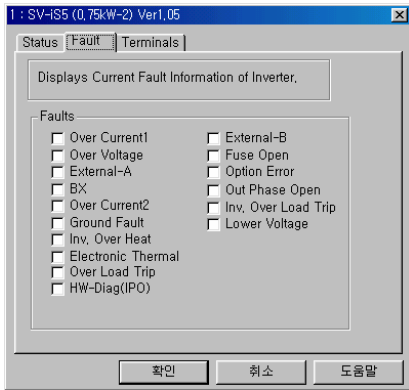


### (4). Indication of inverter's operating status

Inverter's running status, fault, and terminal information.



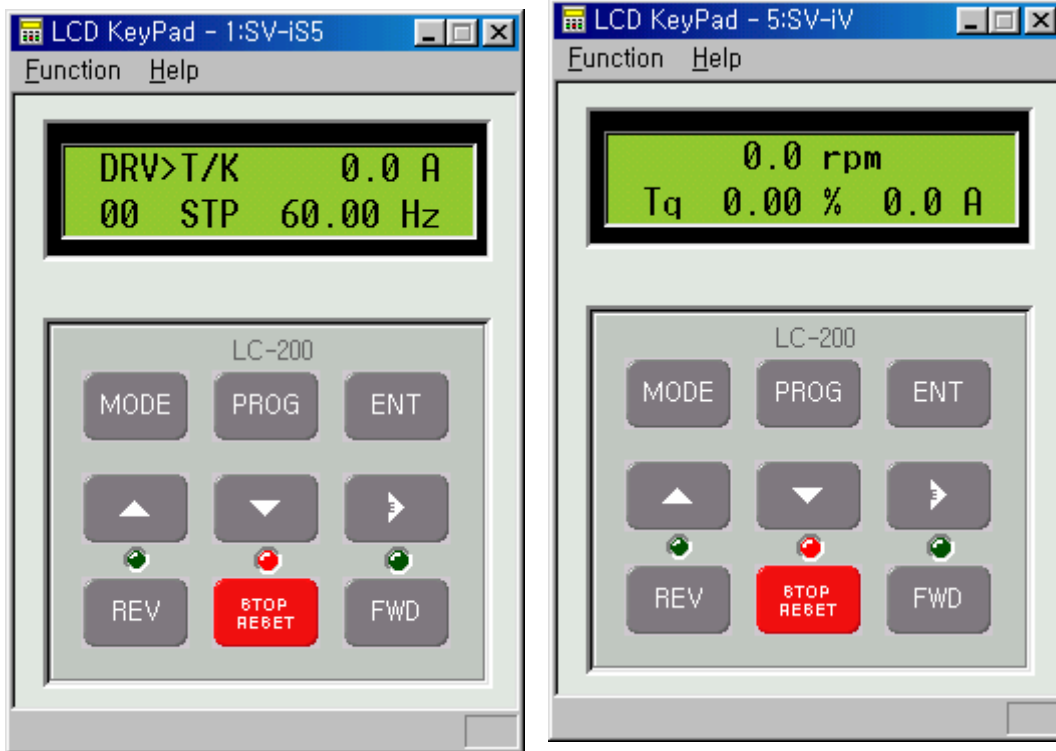




(5). Keypad Emulation (See Chapter 5)

Drive View can emulate LCD keypad and 7segment keypad on the PC.

- LCD Keypad: IS3, IS5, IV, IV5, IH series

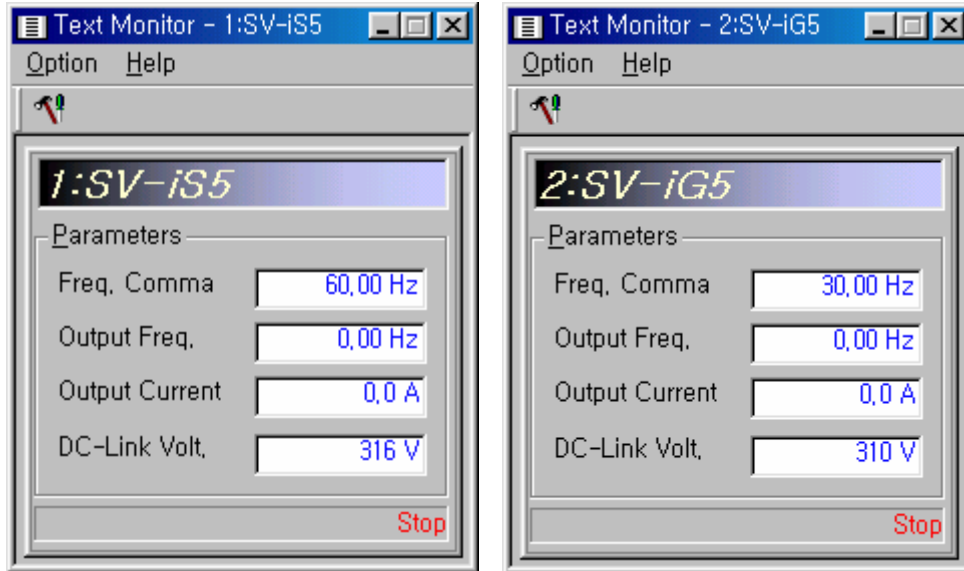


- 7 segment keypad: IG5



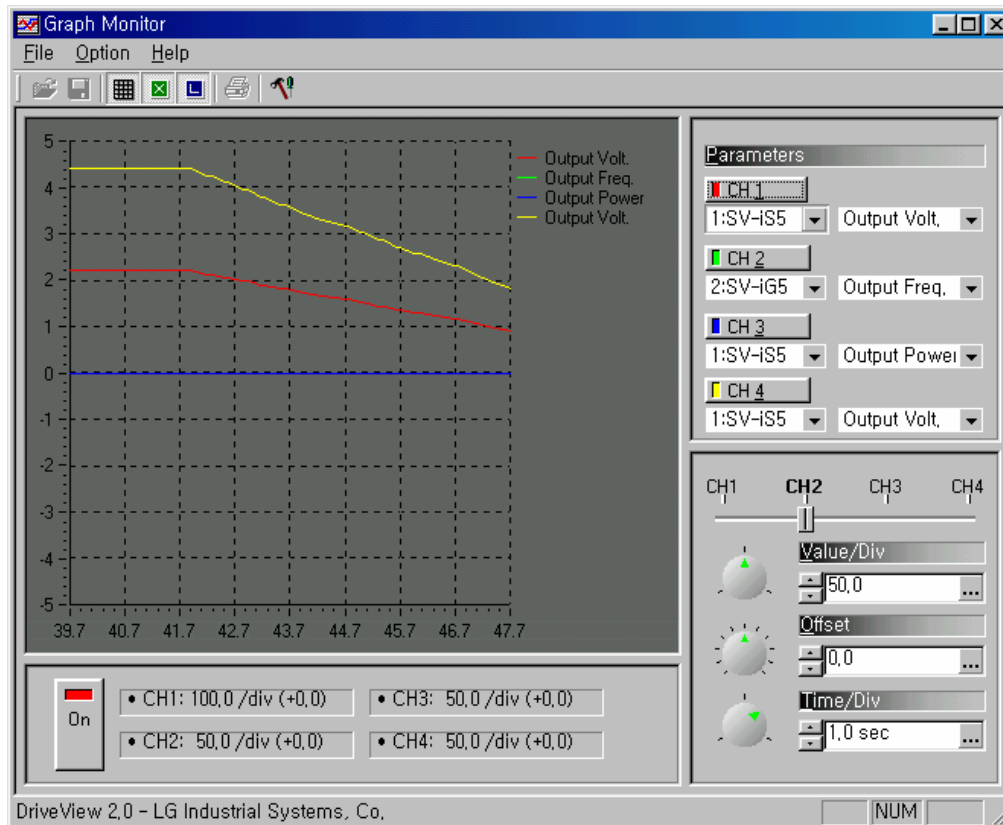
(6). Text Monitor (See Chapter 6)

Indicate data in letter.



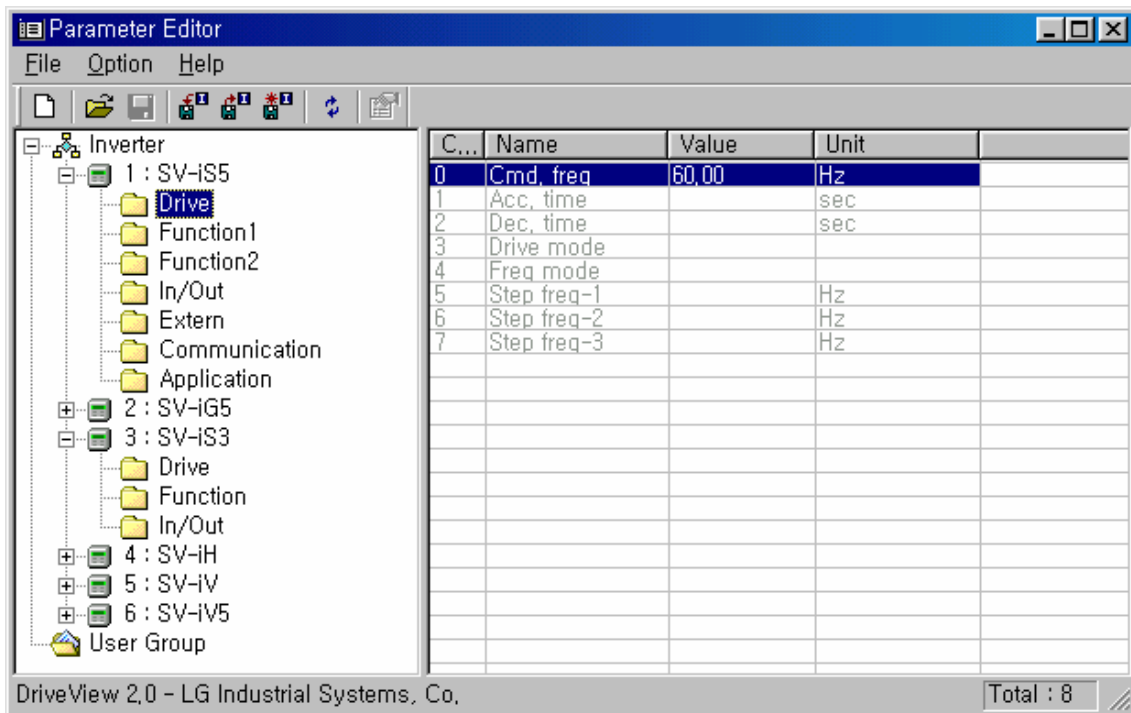
(7). Graph Monitor ((See Chapter 7)

Indicate data in graph.



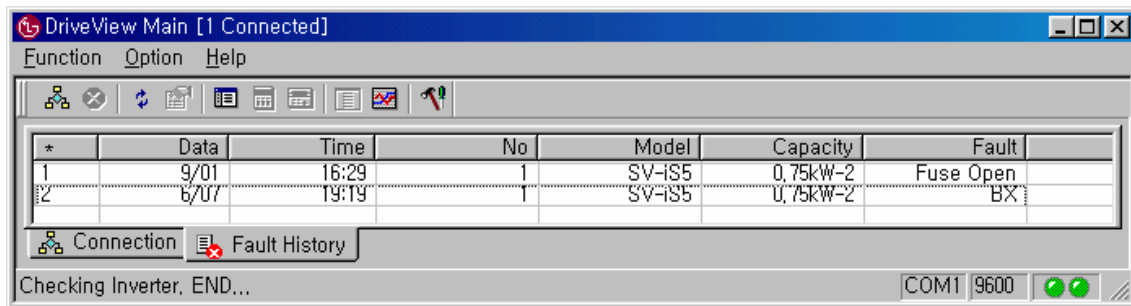
### (8). Parameter Editor (See chapter 4)

It indicates all parameters of connected inverter



### (9) Fault history

It indicates fault history of connected inverter. It includes time and fault type.



### (10). The others

- The communication selection and common selection can be made only on the main window.
- User must run the program first, before doing inverter search from 31 channels (ID).
- Among the information from the connected inverters, its type and capacity can not be updated.
- User must run the inverter search, before add new inverter or change inverter

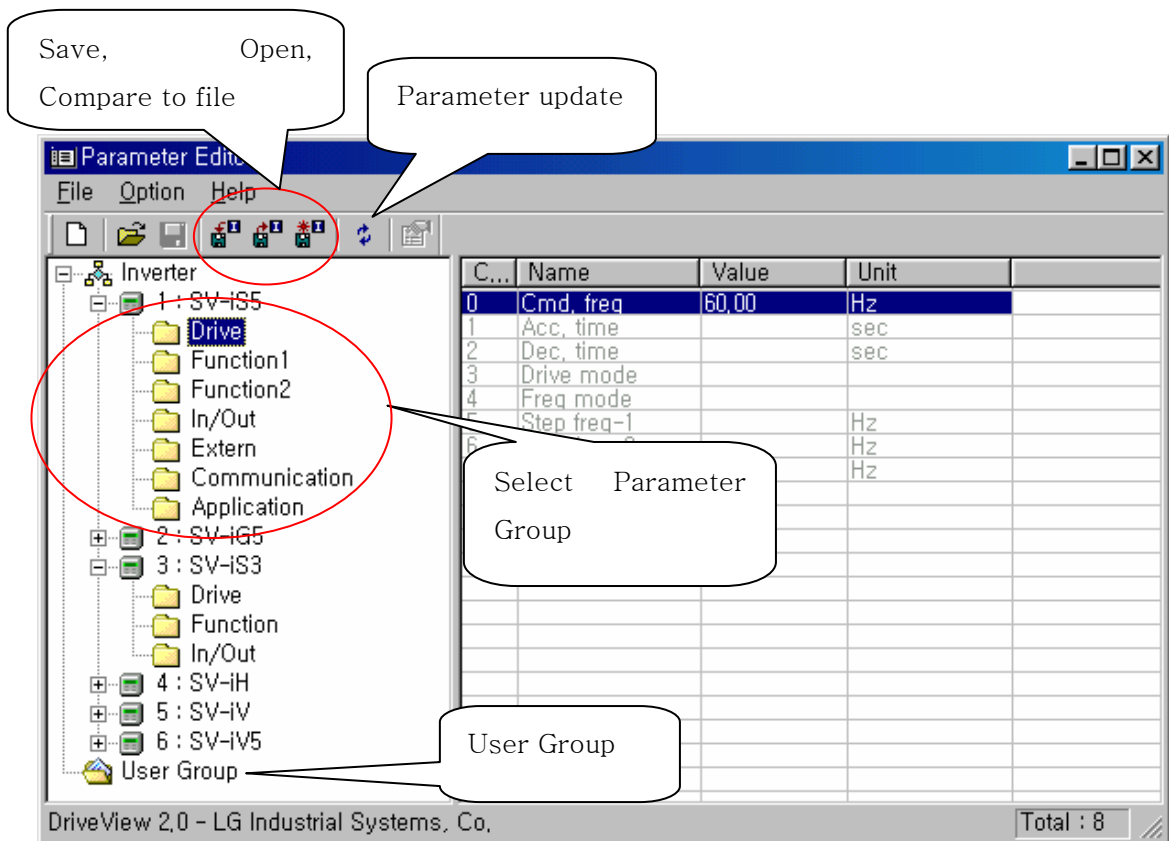
information.

- Inverter's fault history will be automatically recorded when finishing the program. Also, up to 200 records can be saved.  
(The records will be saved as text format in Program Route directory's "DriveView.Log")
- Inverter's information and its fault history can be sort out by category.
- After selecting an inverter from the list, you can see its four sub windows (parameter editor, keypad emulator, text monitor, and graph monitor) through menu or use of toolbar.
- By double clicking, user can see the inverter's model dialog.

## 4. Parameter Editor

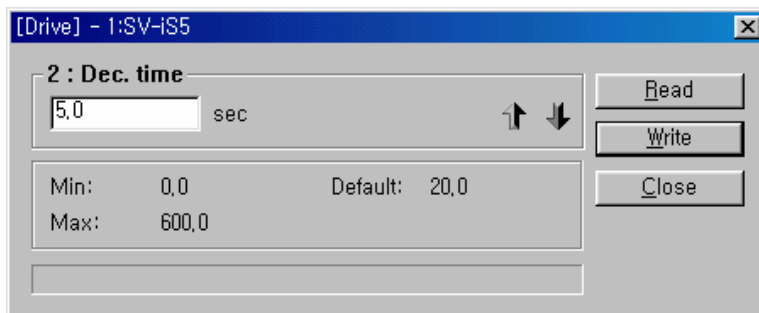
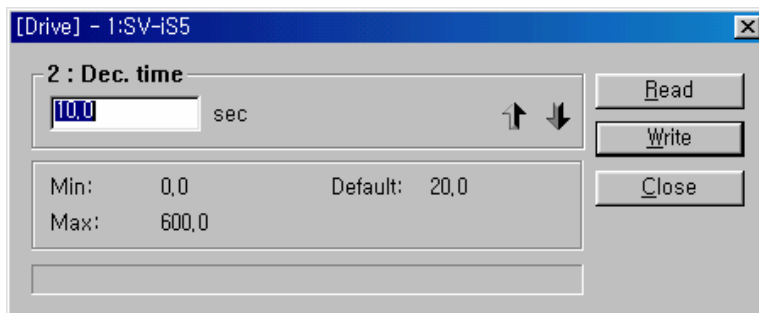
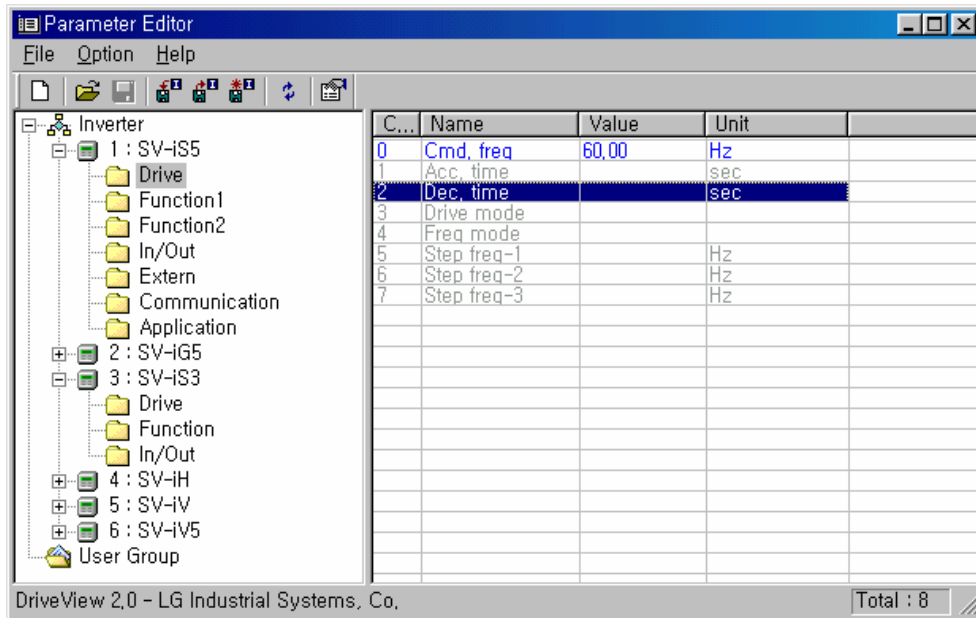
Main functions:

- Displays, edit, and save inverter's parameter.
- Create and manage parameter.
- Displays in different color for those parameters that are different from fixed number.
- Able to manage inverters in different categories.



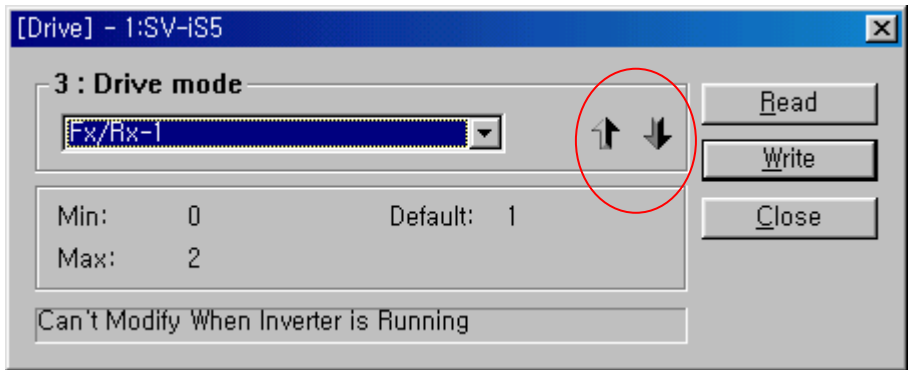
## (1). Changing date value

Double click the parameter that need to be change



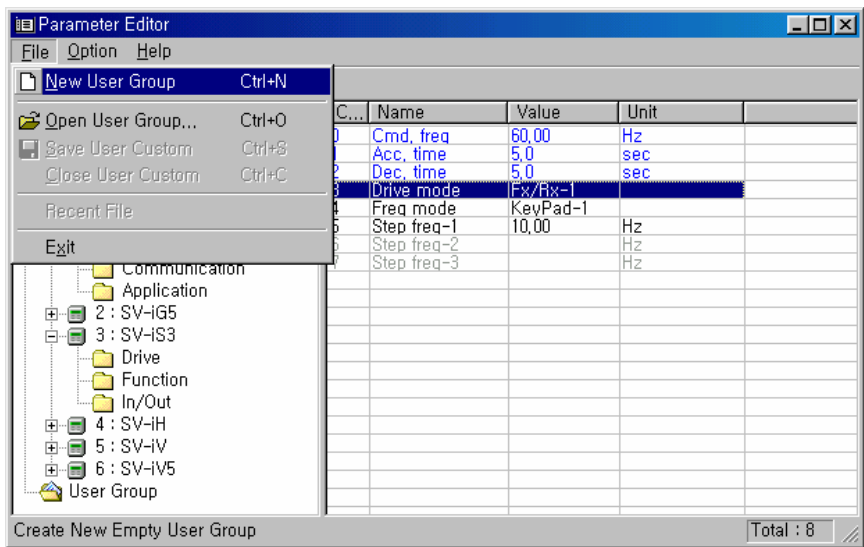
When the editing window appears, change its value, then click “Write” button.  
Finally, click “Close” button.

Also, user can move through the parameters by using up and down arrow buttons.

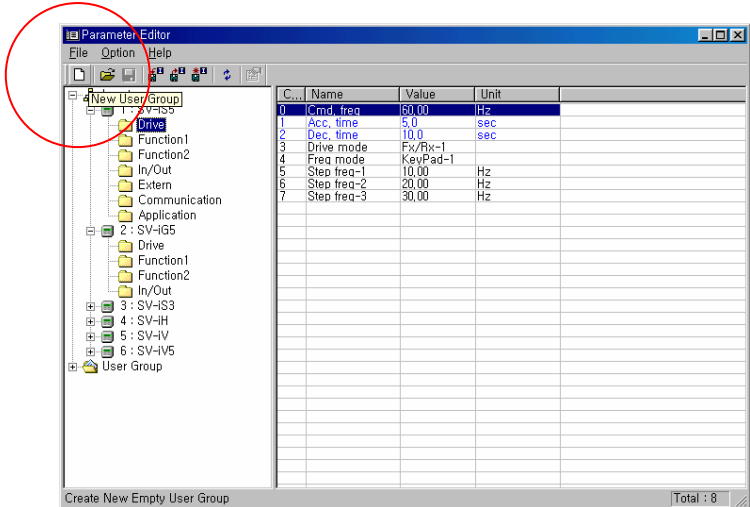


**(2). Creating new user parameter group.**

In “New User group”, users can create new parameter group.

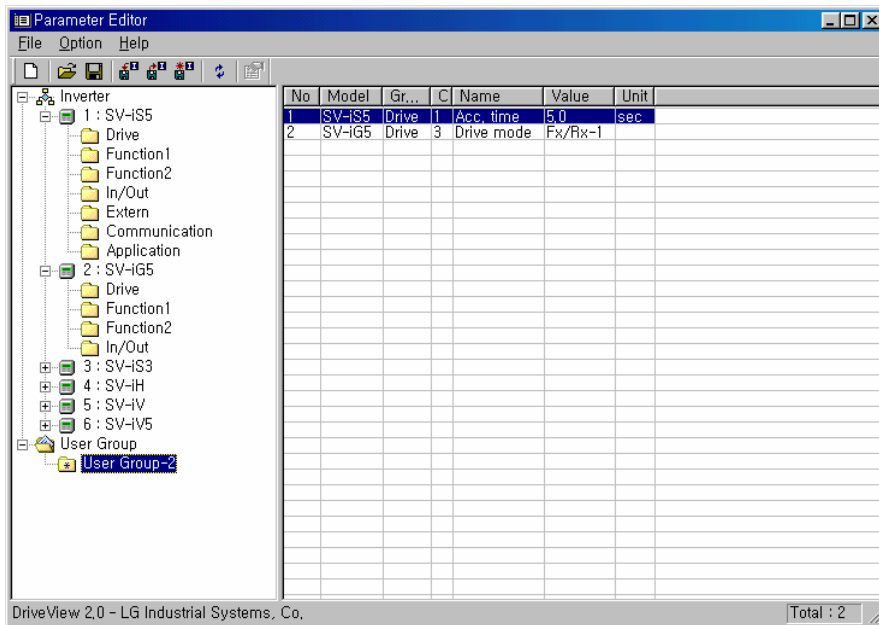


or select **New User Group** Icon

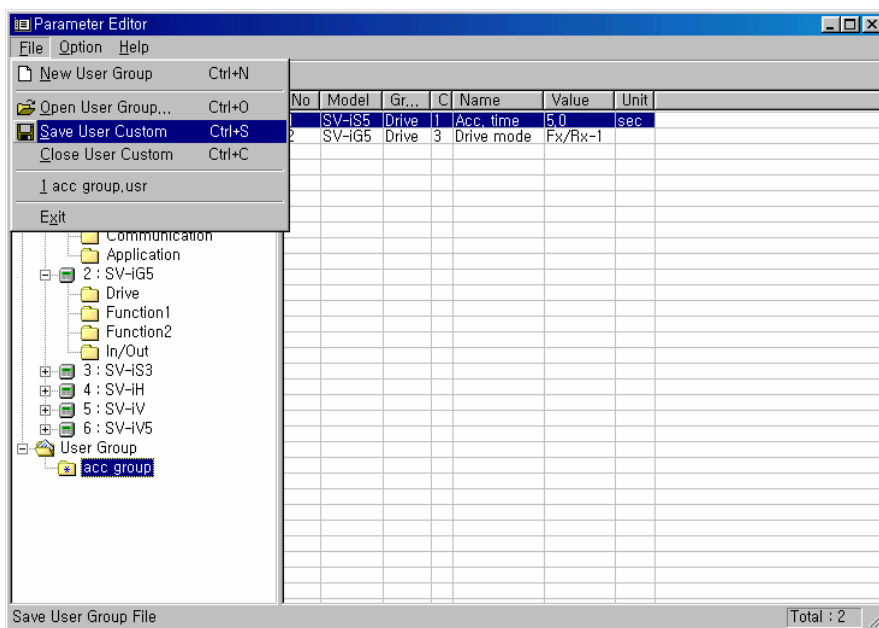




Also by using Drag & Drop technique, users can easily create new parameter group by selecting the desired parameter from another group.

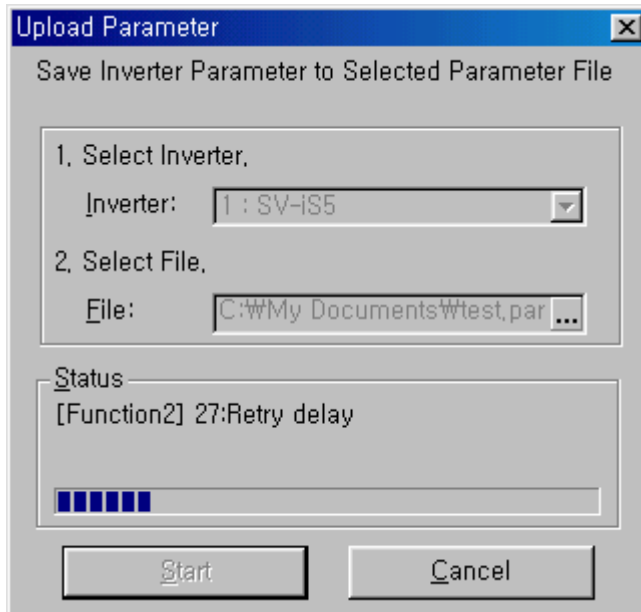


The user parameter group can be saved in different names.

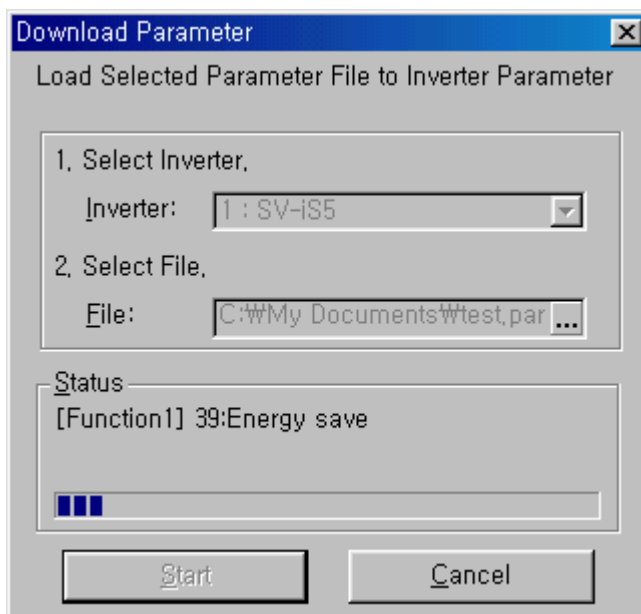


### (3). Parameter Up load / Down load / Comparison

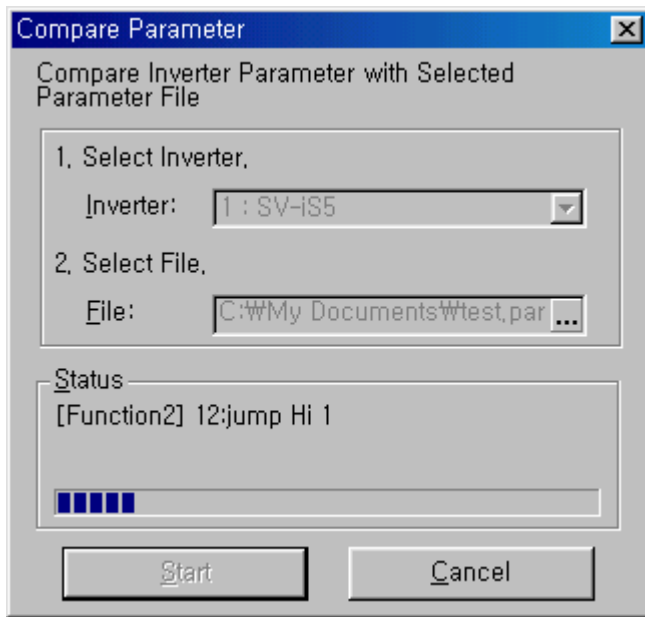
- Parameter Up load : Save the parameter in a file.



- Parameter Down load : Bring the saved parameter back to inverter

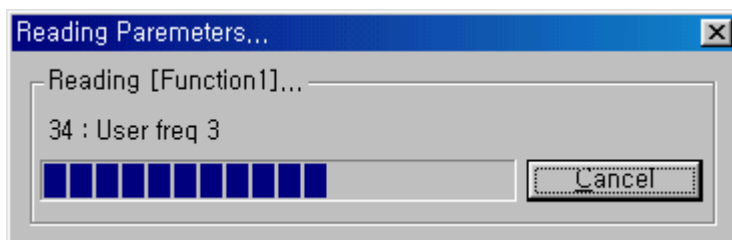


- Parameter Comparison : Can compare between the saved parameter and inverter parameter



**(4). Update parameter information**

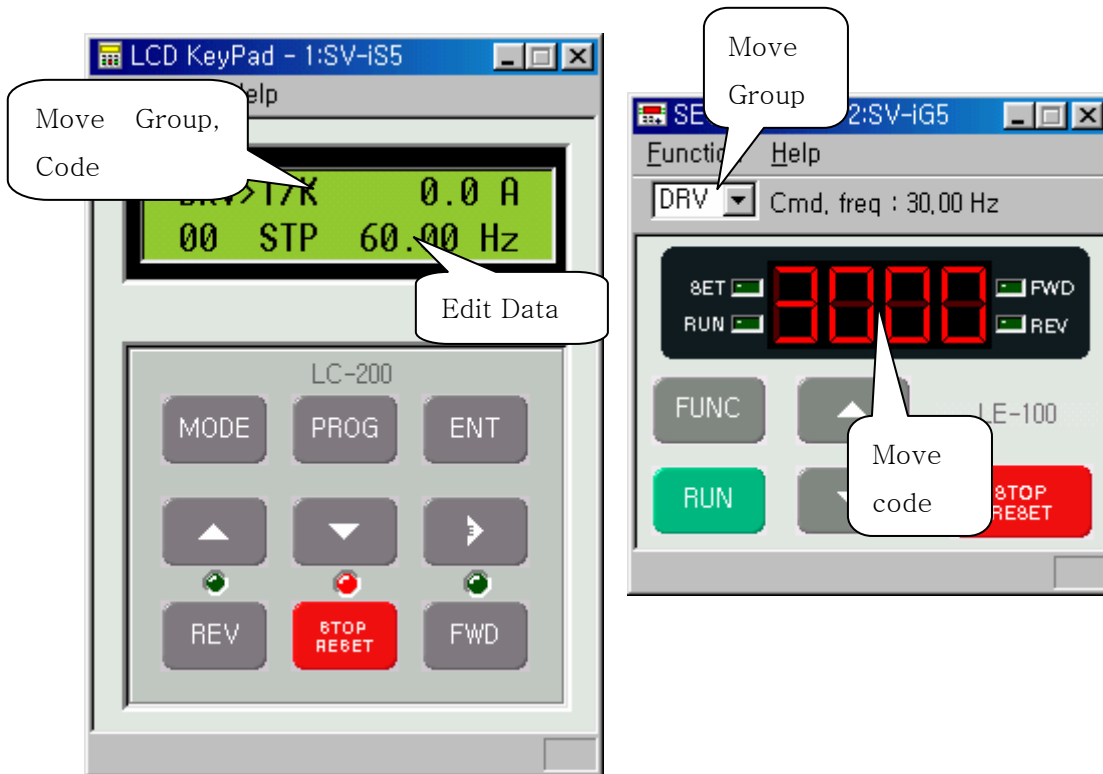
- Shows the inverter's parameter information.



## 5. Keypad Emulation

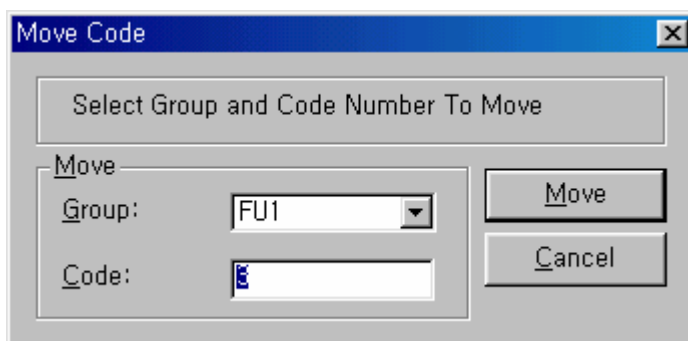
Main functions:

- LCD type keypad emulation
- 7-segment type keypad emulation
- It emulates actual inverter keypad functions.



Added function:

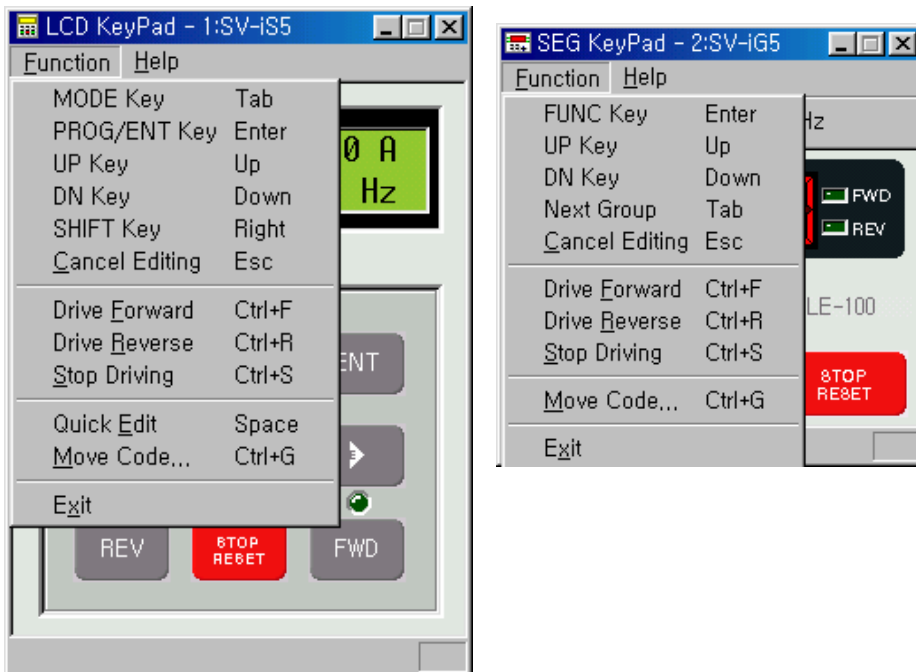
- It is easy to move around the groups or codes



- User can change the value on the LCD Monitor.



- User can directly operate through PC's keyboard



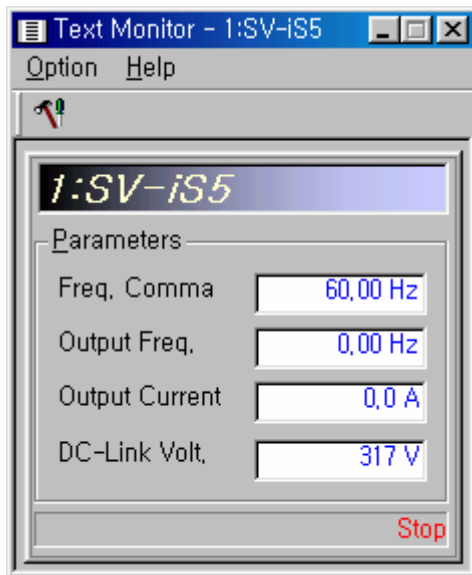
- For more details, please read the inverter user's guide manual

## 6. Text Monitor

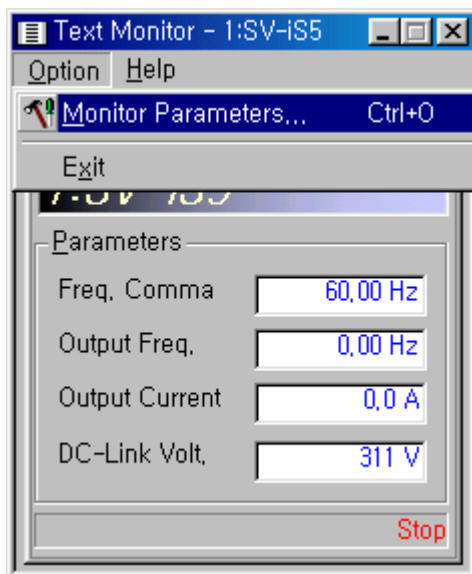
Main functions:

- It is used to express data in letters, and it can indicate up to four different values.

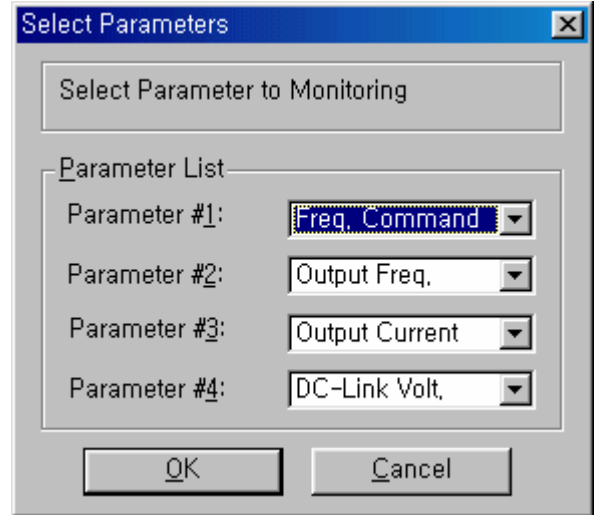
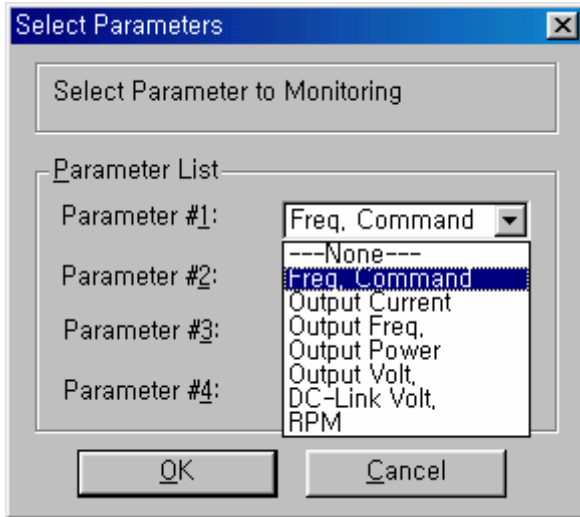
Indication window



Selection



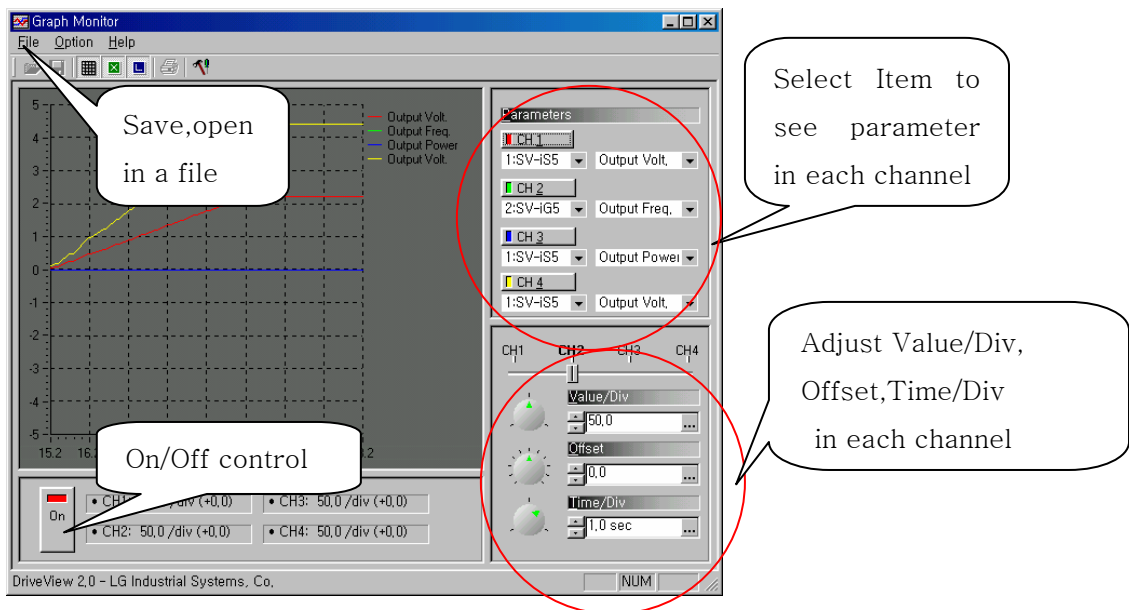
Selection choices



## 7. Graph Monitor

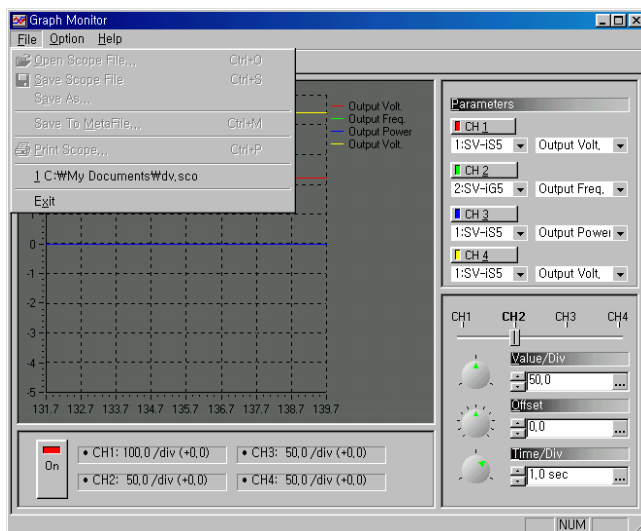
Main functions:

- It can indicate up to four different graphs (inverter ID, Parameter selection)
- It can select each inverter ID's value/Div, Offset, and Time/Div
- It can turn on/off monitor or each ID
- It can save all kinds of selection information and data files
- It can change the color and line thickness of each ID



### (1). File menu

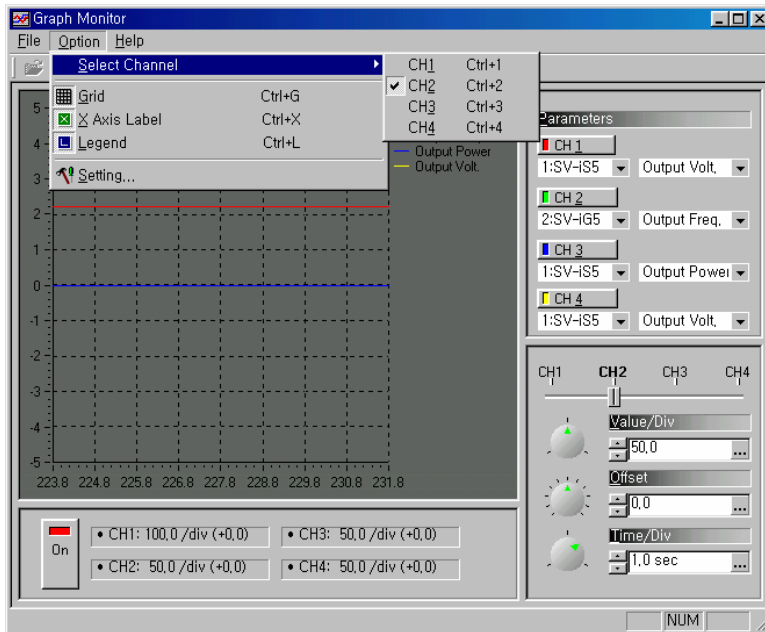
- User can save or load in file



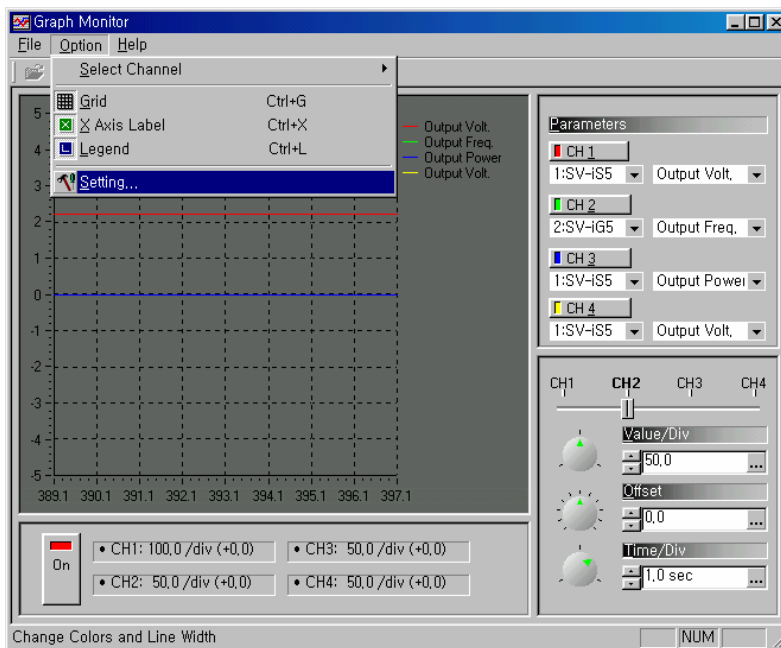


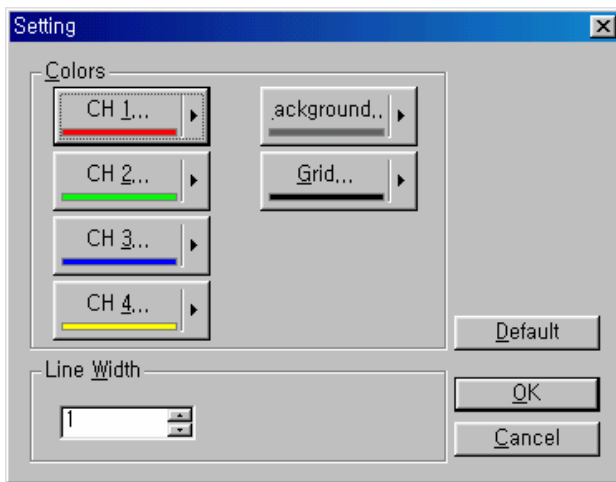
## (2). Option menu

- User can check grid and legend



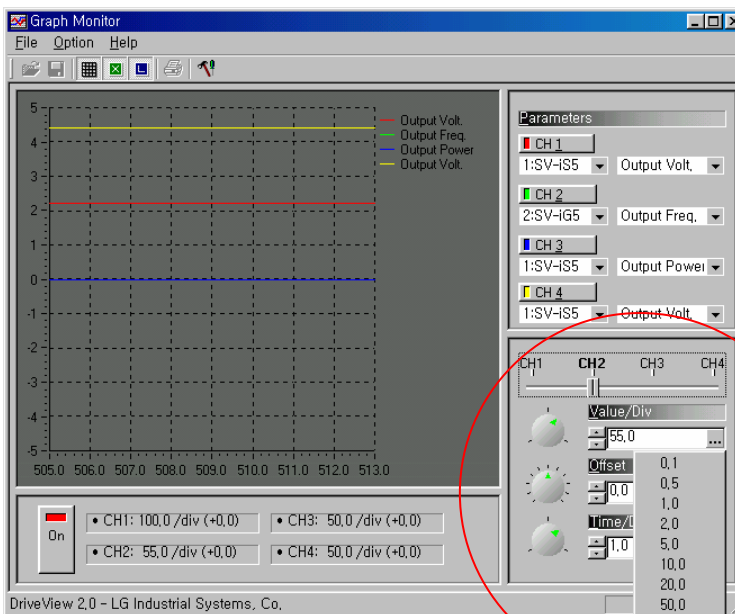
- User can check the setting of ID and its indication line





### (3). Channel Setting

- Each of four channel can have its own setting
- Can change the setting in 4 ways(Knob, Up/Down, data value, and selecting "...")



- Can be selected in each channel

Value/Div : value of an Y axis

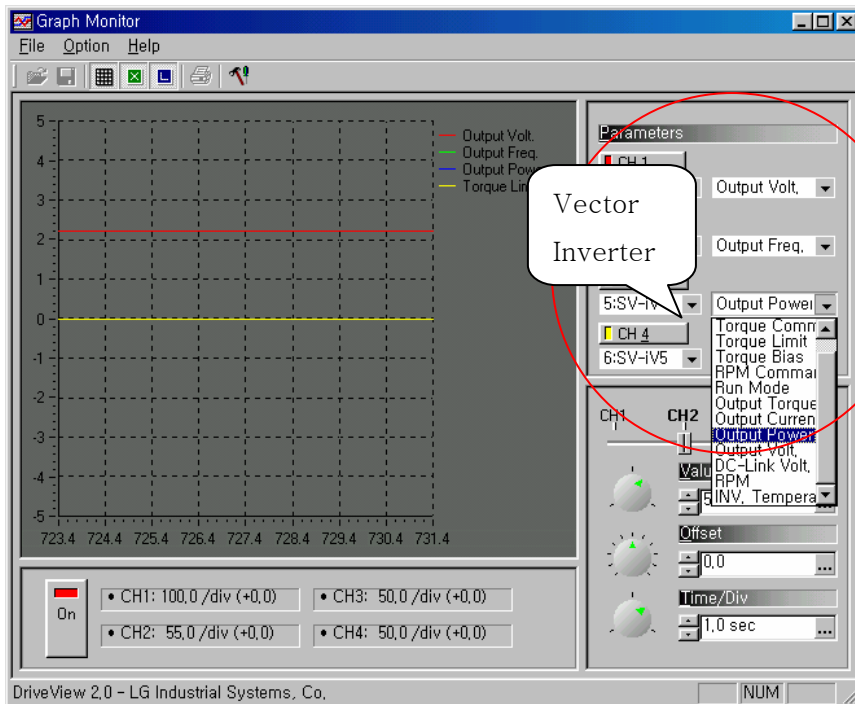
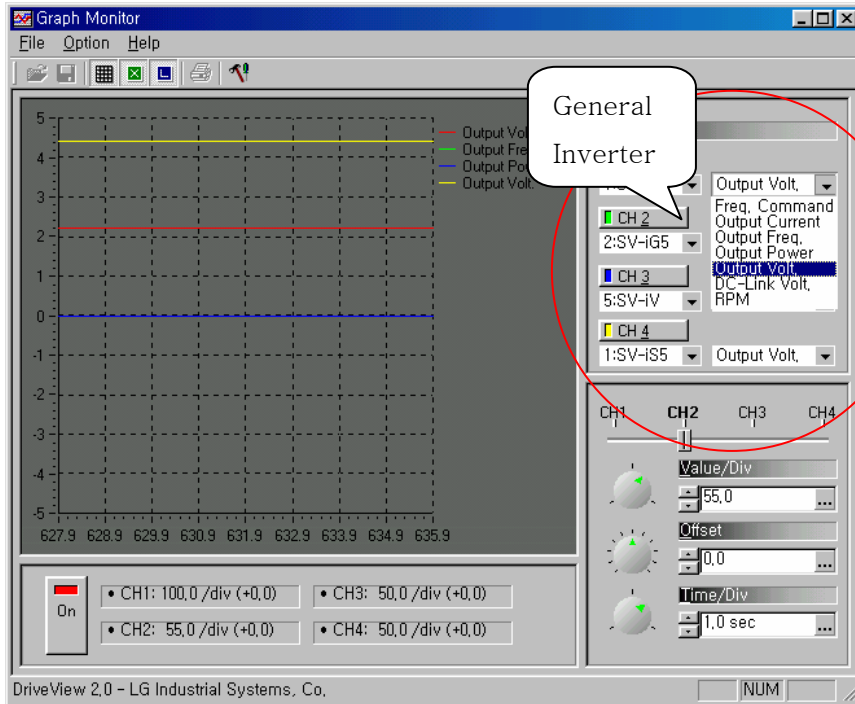
Offset : 0 value setting

Time/Div : time value of an X axis (sec)

#### (4). Monitor variable values

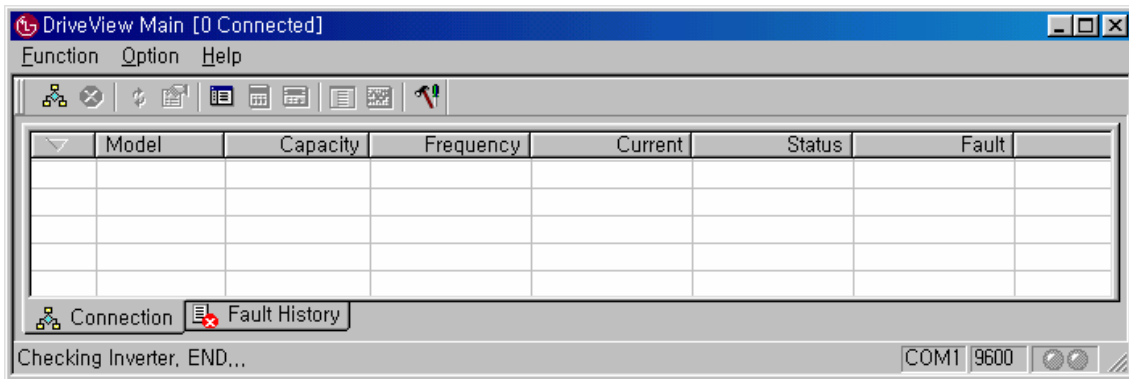
General inverter

Vector inverter



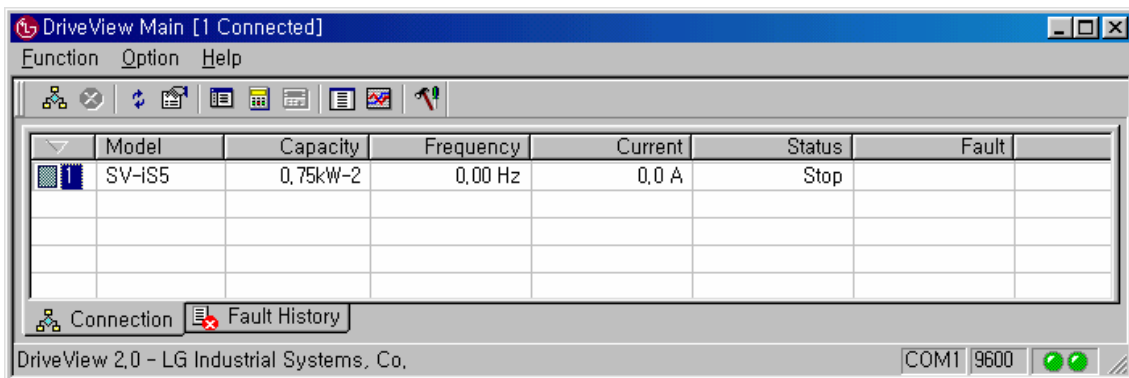
## 8. Trouble shooting

1) It can not find inverters.



- Check inverter's power supply.
- Check RS232/RS485 converter's power supply
- Check wiring
- Check COM port and baud rate of PC , inverter's address and baudrate

2) Exist connected inverter, But it can not display a keypad



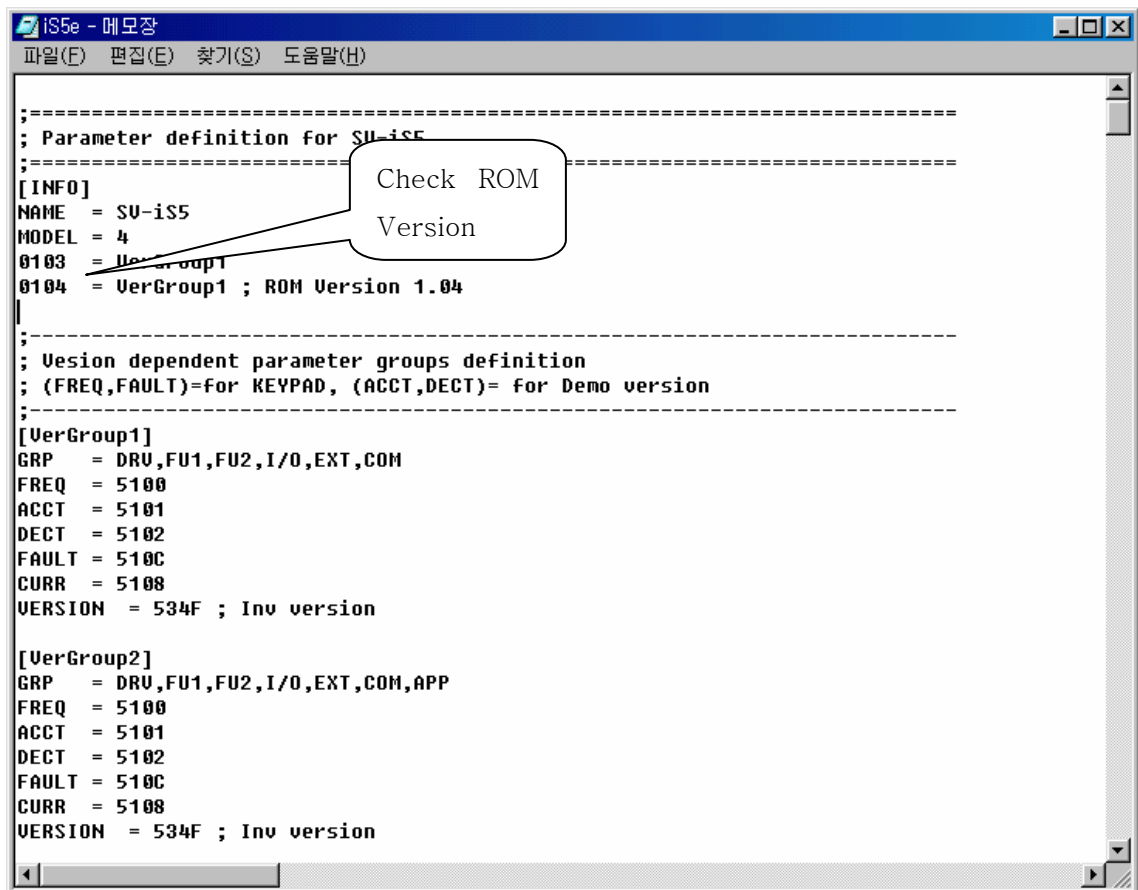
- Check inverter's ROM Version

Ex1) iS5 inverter's ROM version : 1.05

(1) Close Drive View 2.0 program

(2) Open iS5e.dat file in your computer directory installed.

(WProgram Files\WLG Industrial Systems\WDrive View 2.0\WData)



```
=====
; Parameter definition for SU-iS5
=====
[INFO]
NAME = SU-iS5
MODEL = 4
0103 = VerGroup1
0104 = VerGroup1 ; ROM Version 1.04
|
;
; Version dependent parameter groups definition
; (FREQ,FAULT)=for KEYPAD, (ACCT,DECT)= for Demo version
;
[VerGroup1]
GRP = DRU,FU1,FU2,I/O,EXT,COM
FREQ = 5100
ACCT = 5101
DECT = 5102
FAULT = 510C
CURR = 5108
VERSION = 534F ; Inv version

[VerGroup2]
GRP = DRU,FU1,FU2,I/O,EXT,COM,APP
FREQ = 5100
ACCT = 5101
DECT = 5102
FAULT = 510C
CURR = 5108
VERSION = 534F ; Inv version
```

(3) It does not exist in a file. Insert 0105 = VerGroup2 as follows and save a file

```
=====
; Parameter definition for SU-iS5
=====
[ INFO ]
NAME = SU-iS5
MODEL = 4
0103 = VerGroup1
0104 = VerGroup1 ; ROM U
0105 = VerGroup2
;
; Version dependent parameter
; (FREQ,FAULT)=for KEYPAD, (ACCT,DECT)= for Demo version
;
[VerGroup1]
GRP = DRU,FU1,FU2,I/O,EXT,COM
FREQ = 5100
ACCT = 5101
DECT = 5102
FAULT = 510C
CURR = 5108
VERSION = 534F ; Inv version

[VerGroup2]
GRP = DRU,FU1,FU2,I/O,EXT,COM,APP
FREQ = 5100
ACCT = 5101
DECT = 5102
FAULT = 510C
CURR = 5108
VERSION = 534F ; Inv version
```

(4) execute Drive View 2.0 program.

(5) Display a keypad.

Ex2) iG5 inverter's ROM version : 5.00

(1) Close Drive View 2.0 program

(2) Open iG5e.dat file in your computer directory installed.

(WProgram Files\WLG Industrial Systems\WDrive View 2.0\WData)

```
; Parameter definition for SU-i65
;
[INFO]
NAME = SU-i65
MODEL = 7
0302 = U3.02
0303 = U3.03
0401 = U4.01

;
; Version dependent parameter groups definition
;
; (FREQ,FAULT)=for KEYPAD, (ACCT,DECT)= for Demo version
[U3.02]
GRP = DRU, FU1, FU2, I/O
FREQ = 6100
ACCT = 6101
DECT = 6102
FAULT = 610C
CURR = 6108

[U3.03]
[U4.01]
GRP = DRU, FU1, FU2, I/O
FREQ = 6100
ACCT = 6101
DECT = 6102
FAULT = 610B
CURR = 6108
```

(3) It does not exist in a file. Insert 0500 = V5.00 and [V5.00] as follows and save a file

```
; Parameter definition for SU-i65
;
[INFO]
NAME = SU-i65
MODEL = 7
0302 = U3.02
0303 = U3.03
0401 = U4.01
0500 = U5.00

;
; Version dependent parameter groups definition
;
; (FREQ,FAULT)=for KEYPAD, (ACCT,DECT)= for Demo version
[U3.02]
GRP = DRU, FU1, FU2, I/O
FREQ = 6100
ACCT = 6101
DECT = 6102
FAULT = 610C
CURR = 6108

[U3.03]
[U4.01]
[V5.00]
GRP = DRU, FU1, FU2, I/O
FREQ = 6100
ACCT = 6101
DECT = 6102
FAULT = 610B
CURR = 6108
```

(4) excute Drive View 2.0 program.

(5) Display a keypad.

### 3) Exist connected inverter, But it can not display parameter group in Parameter Editor

It should modify data file as 2)

