Portview
User Manual

English Version 1.1

June 14, 2006

Revision History

Revision Date	Document Version	Pages	Description
May 25, 2006	1.0	All	Initial release by jhkim
June 14, 2006	1.1	3	Modified supported hardware
		All	Style / font fix

Management with Portview

1. Portview Introduction

Portview is the program that enables you to monitor the device server communication status in real time. Portview displays the data input/output through each serial port as well as the communication status of The device server from remote PCs under the Windows environment.

1) Supported Hardware

- Portbase Series
- WiComm-2
- Eddy Series
- Weddy Series

2) System Requirements

PC system requirements for running Redirector are as follows.

.

- CPU : Pentium 100 MHz or higher
- Memory : 16 Mb or more
- Operating System : Windows 95/98/ME/2000/XP/2003
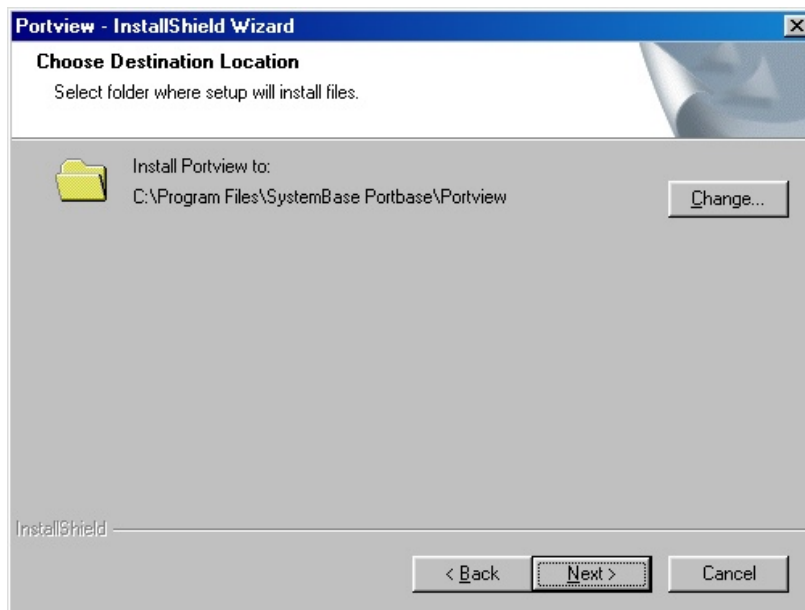- CD-ROM : Faster than 4X
- Network : 10M Ethernet or higher

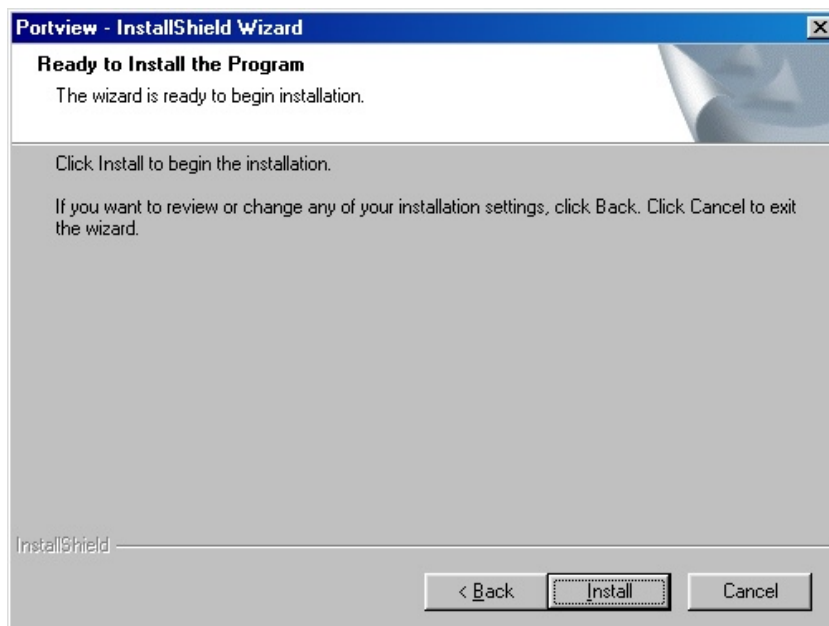![SystemBase logo]

2. Installing Portview

1) Installation

1) Insert the The device server setup CD to the CD-ROM drive.

2) Run Setup.exe. (The program is started automatically when you insert the CD.)
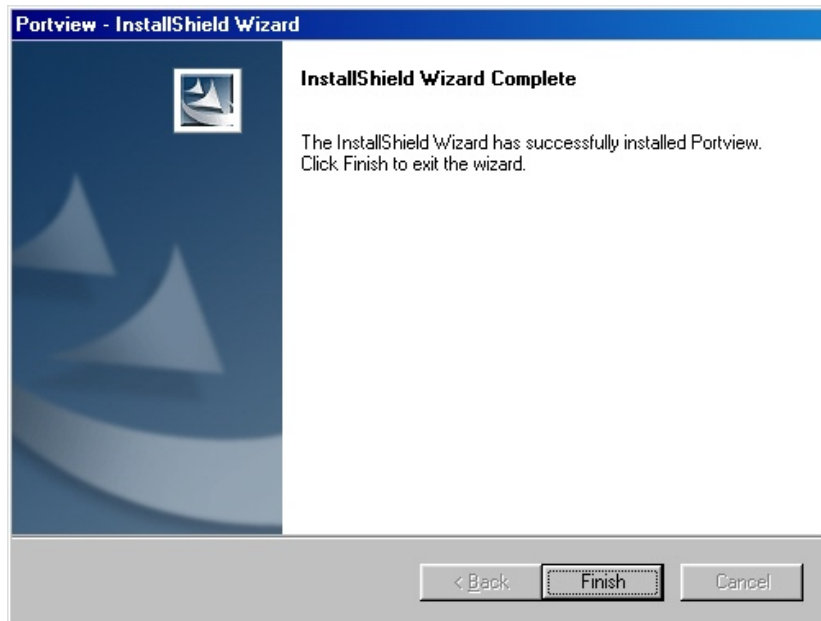
3) Select "English", and then "Install Portview".
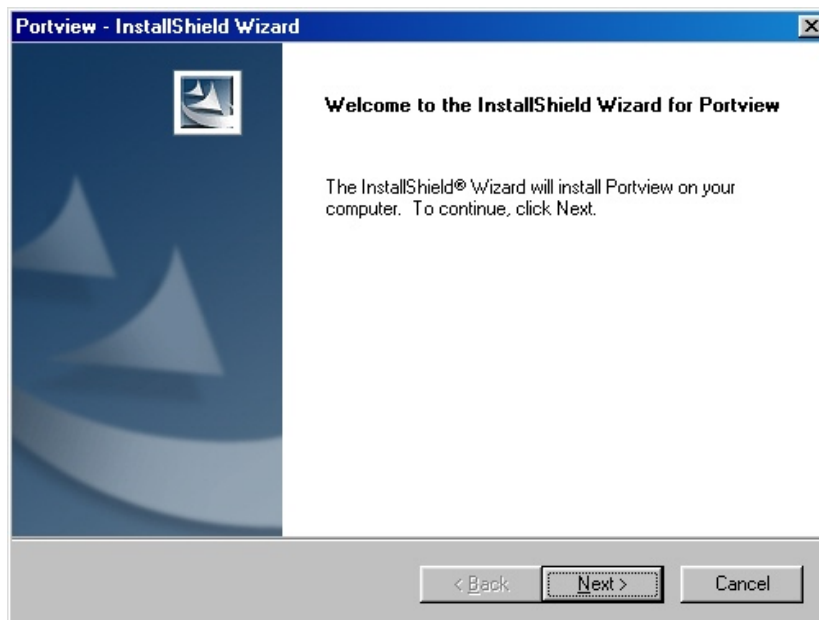
4) Portview install wizard starts. Click "Next" to proceed.

SystemBase

5) Choose destination location, and click "Next". Default path is C:\Program Files\SystemBase Portbase\Portview

6) Click "Install" to begin installation.

7) Click "Finish" to complete the installation. To run the program, select 'Start' → 'All Programs' → 'SystemBase Portbase' → 'Portview' → 'Launch Portview'.

3. Using Portview

1) Device Server Setting

1) Type the Device Server's IP address in the address windows to access the device server's web site via the web browser.

2) Enter the user name and the password of the device server.
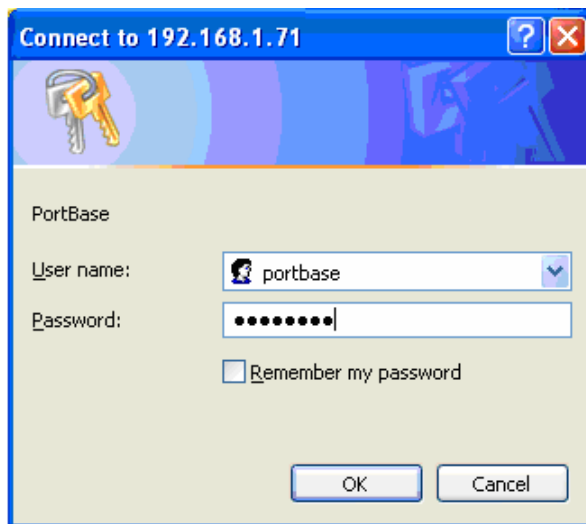
3) Enter the network configuration menu. The example below describes Portbase's web configuration.

4) Enter the IP address of the PC to execute Portview on, the name of the device server, the Location that device server is in, and the Group in which the device server belongs to.

5) Click on "Save & Restart" to apply the new setting to the device server.

2) Environment Setting

■ Password Setting

In order to prevent unauthorized access to Portview, click on 'Settings' → 'Password Setting' from the menubar.
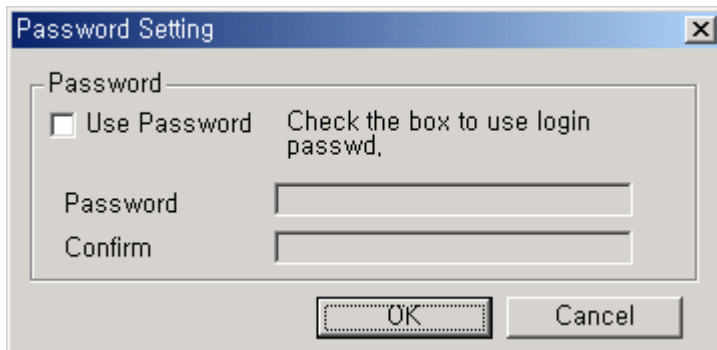
Mark "Use Password" box and enter the password, and click on "OK". Afterward, the password window will appear to execute the the Portview.

■ Directory Setting

You can set the default directory to save the device server's log file and the Datascope capture file.
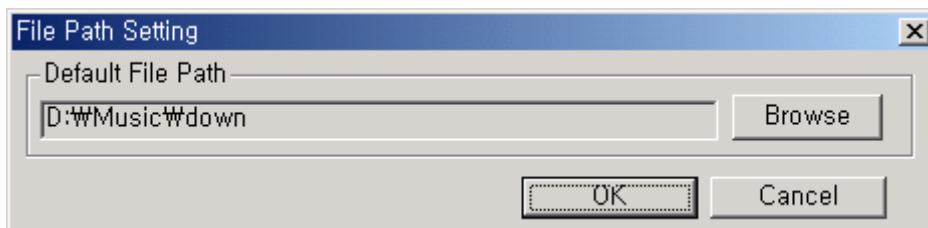
■ Communication Setting

Select whether Portview should keep displaying the device server after it is disconnected, and set the external connection port.

① If you select 'Remove nodes automatically, if connections are failed', the device server information disappears as the device server is disconnected.
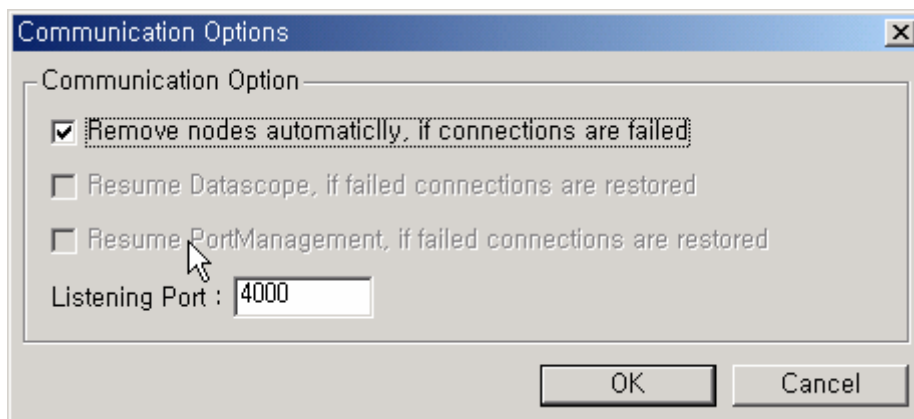
② Select 'Resume Datascope, if failed connections are restored' from communication options menu bar if you want to set Datascope to be automatically executed when the failed device servers are reconnected. At this time, to automatically display incoming/outgoing data to/from each device server's port in real time, select 'Resume PortManagement, if failed connections are restored' as well. (Both options are available at the same time)
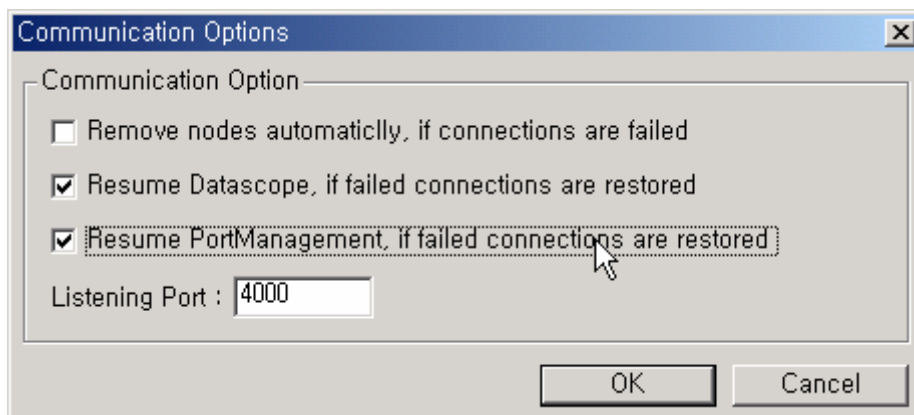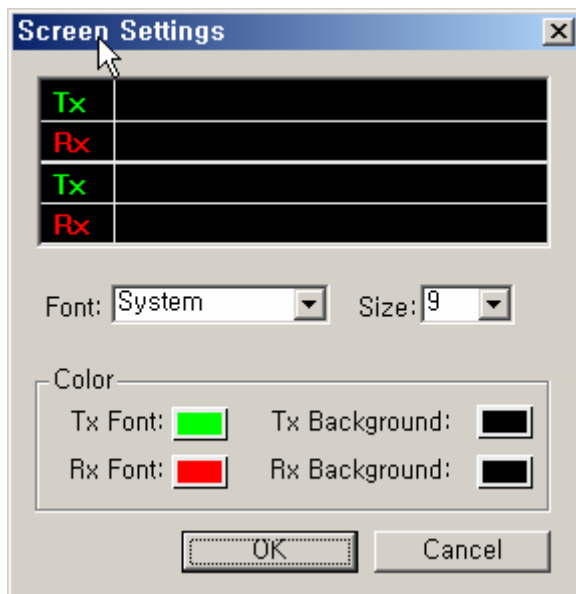
③ Type the socket number for the device server connection. The default port number is 4000.
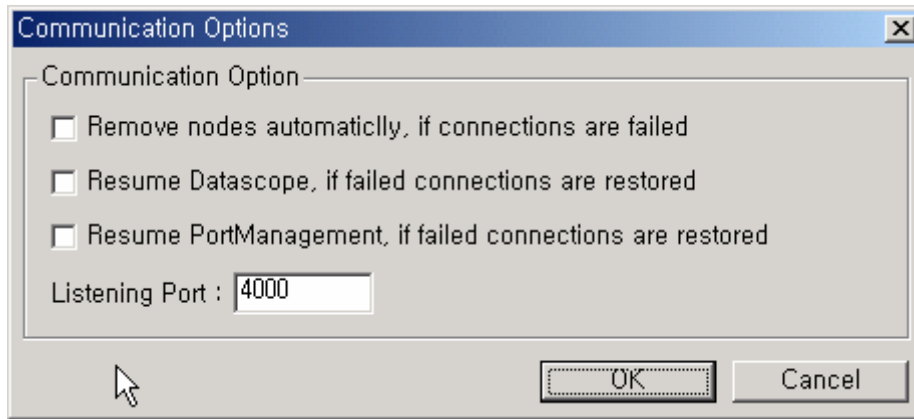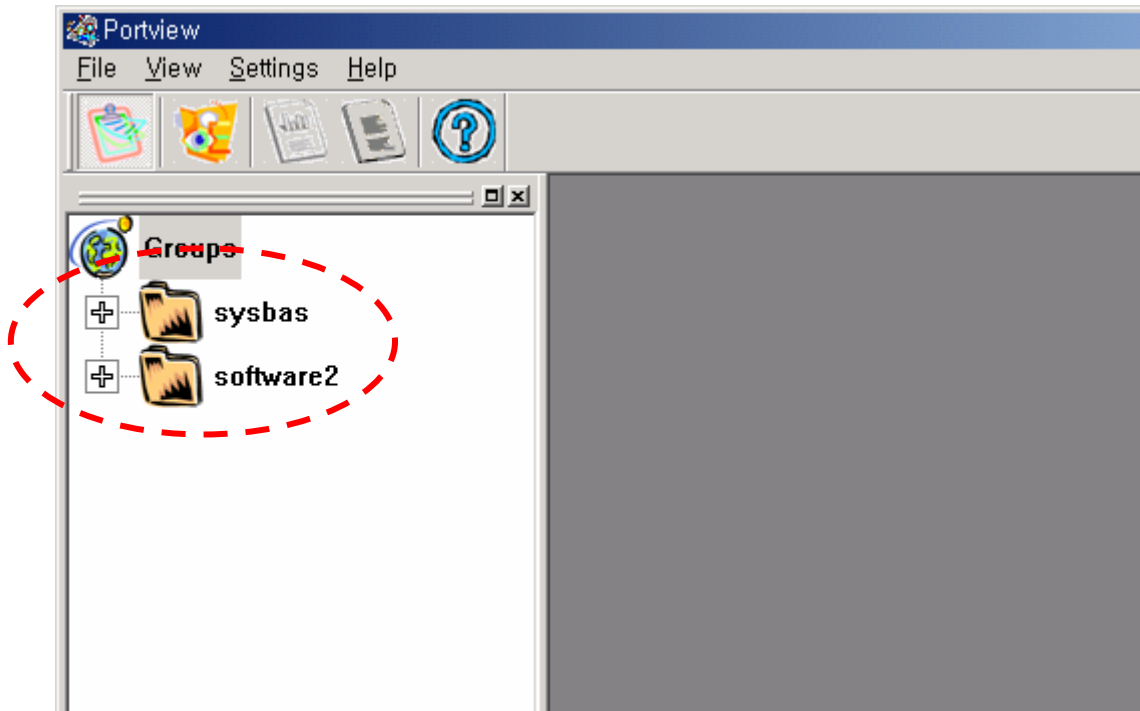

■ Datascope Screen Setting

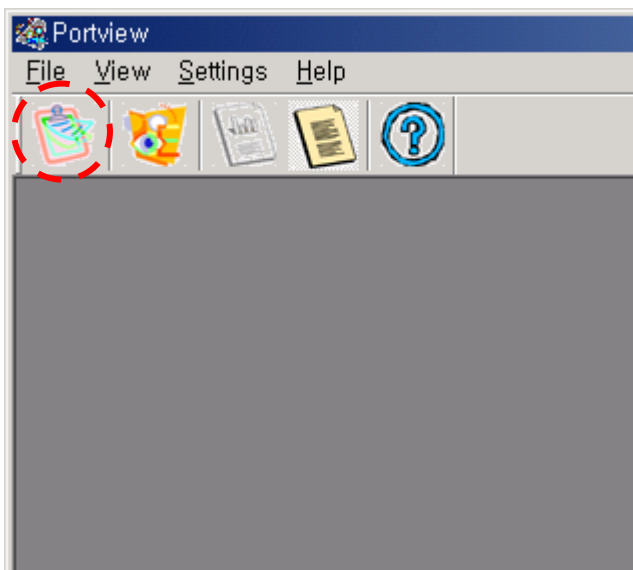You can change settings of the data input/output monitoring screen.

3) Overall Management

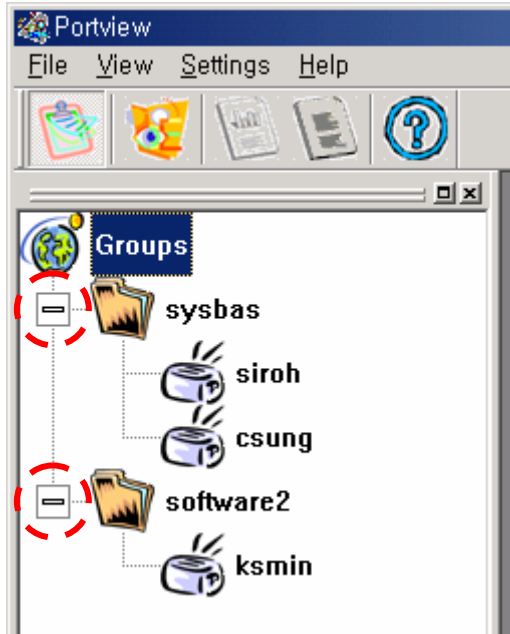You can manage all the device servers connected to Portview.

■ The device servers with different group names are displayed as different groups.

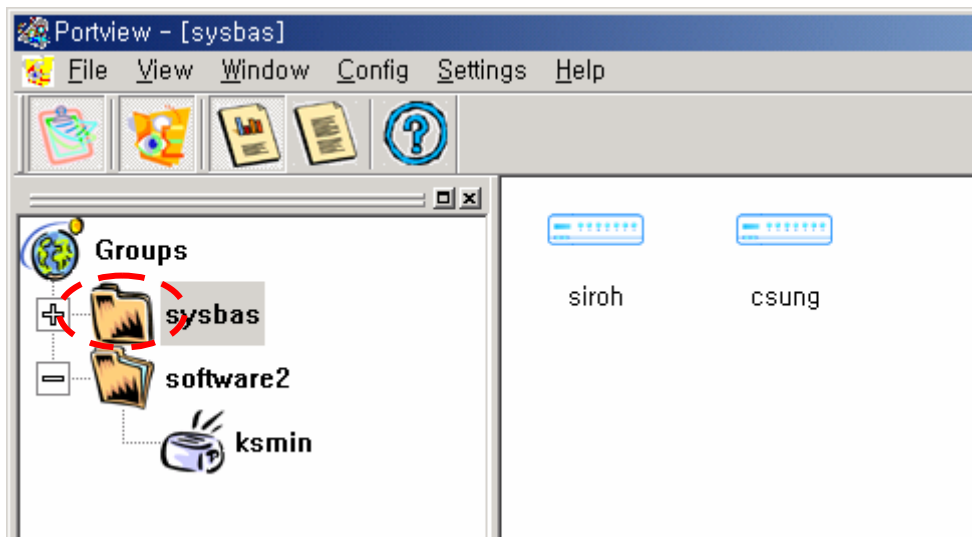
■ To close the group tree screen, click on from the toolbar.

■ Click on ⊞ to display device servers of a group.
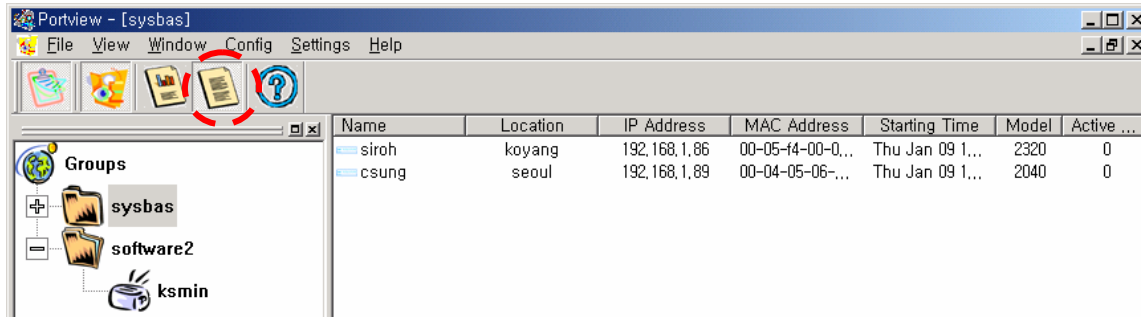

■ To display icon screen of a device servers, click on 📁.

Because you selected sysbas, the tile becomes "Portview – [sysbas]".

■ In order to display detailed information of a device server, click on [icon].

Detailed information of a device server is as below.

Name   :   Device server's name

Location   :   Device server's location

IP Address   :   Device server's IP address

MAC Address   :   Device server's MAC address

Starting Time   :   Device server's starting time

Model   :   Device server's model

Active Ports   :   The number of active ports

To return to the Device server's icon screen, click on [icon].

■ To update the disconnected equipment information, click on 'View'->'Refresh Group Tree' from the menu.

■ Configuration Setting

You can set configuration (name, location, group, IP, mask, gateway and etc.) of the device server using web and telnet.

To open web or telnet screen of a device server, select the device server on the icon screen or the list screen, and select 'Config' → 'Web Configurator' or 'Telnet from the menu'. (You can select Web or Telnet only after you select a device server.)
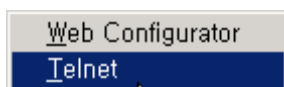
(Selecting Telnet)
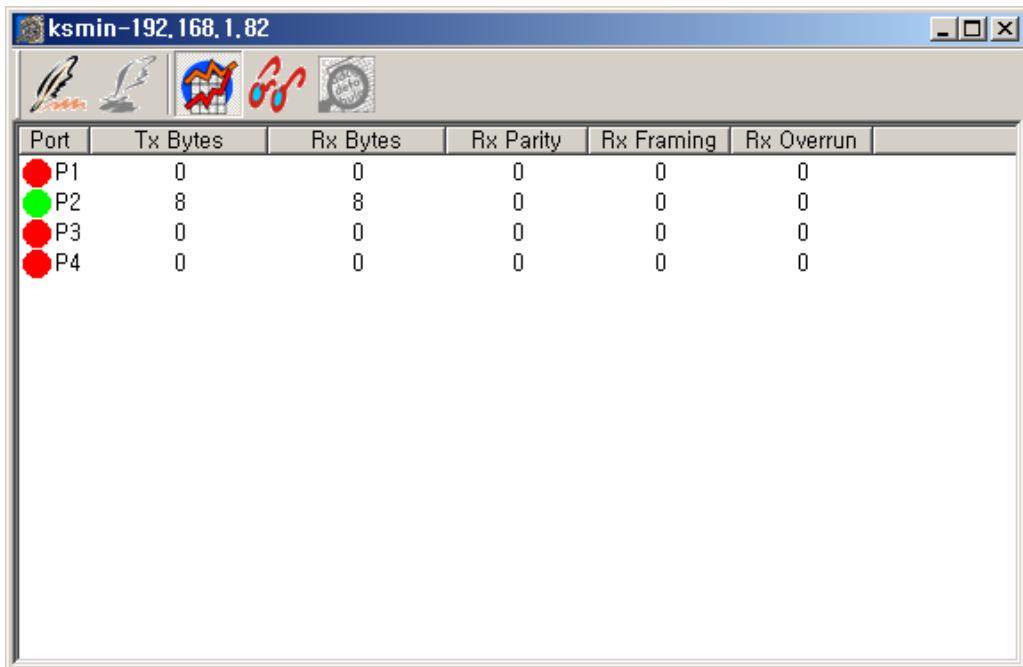
4) Detailed Management

■ Device Server View

Port View screen:

1) Displays data on each device server's port..

2) Displays errors on each device server's port.

3) Displays environment configuration for each device server's port.

① Starting

To run the device server View, double-click on an equipment on the Group List View or the device server List View.

Port	Tx Bytes	Rx Bytes	Rx Parity	Rx Framing	Rx Overrun	
P1	0	0	0	0	0	
P2	8	8	0	0	0	
P3	0	0	0	0	0	
P4	0	0	0	0	0	

<Initial View Screen>
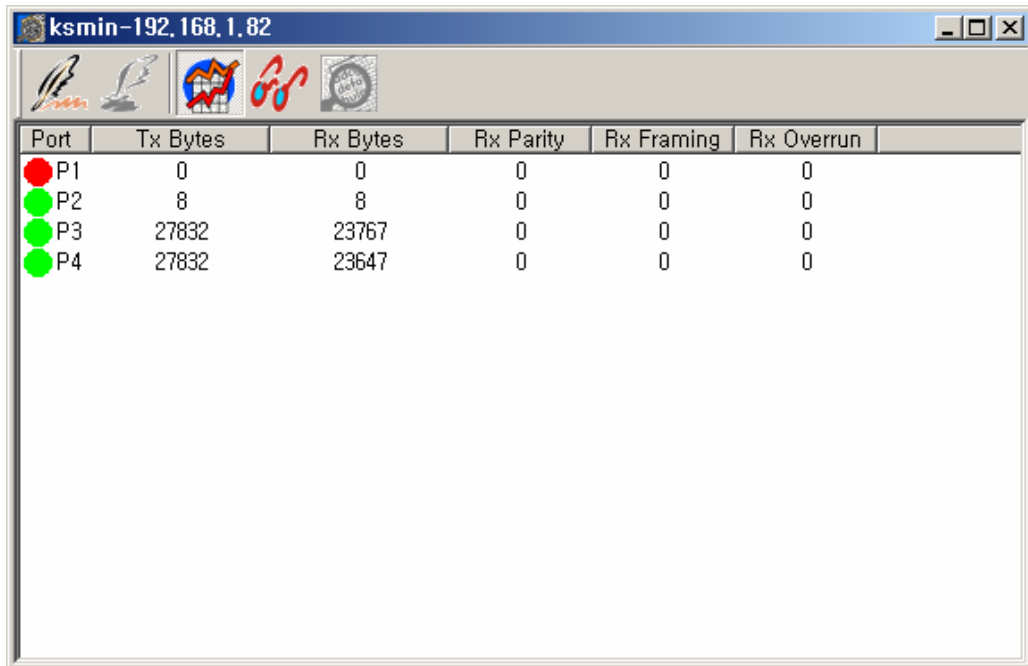
② Statistics

You can display input/.output data sizes and errors of all ports of the equipment being monitored.

To see this screen, click on 🦌 from the toolbar.

The Ststistics screen is the same as the initial screen.

<Statistics Screen>
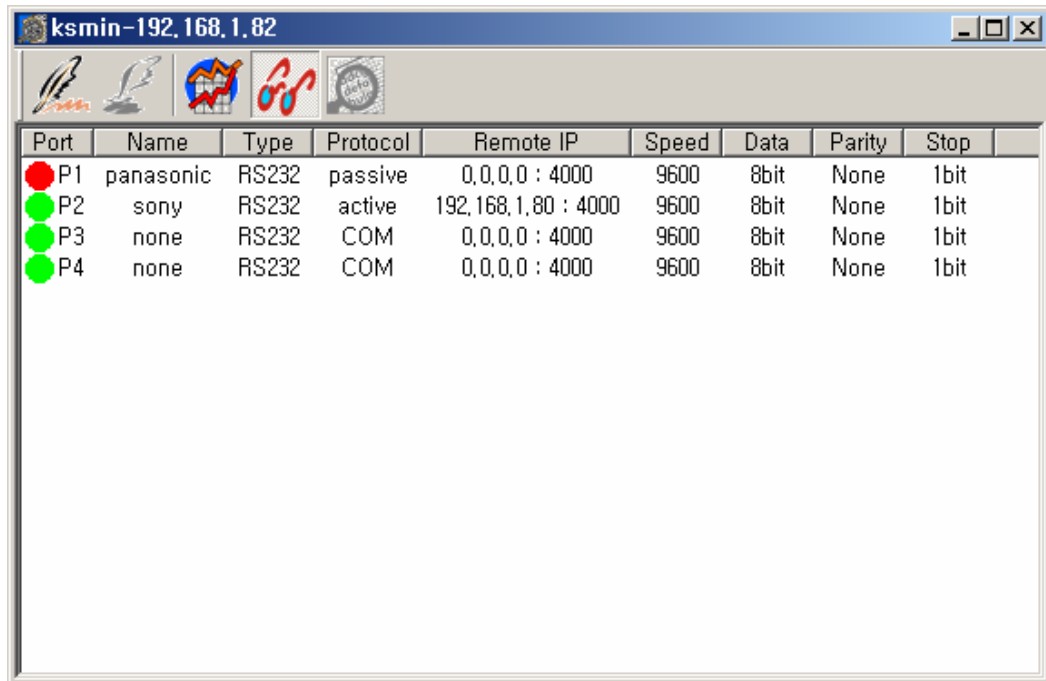
● Port   : Displays port status.

🟢 : The port is active (Green)

🔴 : The port is available but not active (Red)

⚪ : The port is unavailable. (Gray)

● TxBytes   : The number of output data bytes through the device server's port
● RxBytes   : The number of input data bytes through the device server's port
● Rx Parity   : The number of parity errors during data reading
● Rx Framing   : The number of framing errors during data reading
● Rx Overrun   : The number of overrun errors during data reading

③ Settings

You can display settings of all ports.

Click   on   [icon]   from the toolbar.

<Settings Screen>

- Port   : Port number and status of a device server

    🟢 :   The port is active (Green)

    🔴 :   The port is available but not active (Red)

    ⚪ :   The port is unavailable. (Grey)

- Name   : Port name of the device server
- Type   : Port type of the device server (RS232/422/485)
- Protocol   : Protocol of the device server
- Speed   : Baud rate of the device server's port (150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400, 460800, 921600)
- Length   : The number of bits indicating a character (5, 6, 7, 8)
- Parity   Error detection method of making the number of '1's in a bit string to be odd or even by adding a test bit to the given data bit string. (None, Odd, Even)
- Stop   The bits added to indicate that a character ends (1, 2)

④ Log file saving

You can make log files for port status and execution of program in the device server. On the device server's View window, click on [icon] to display the log start message. The port operation status is recorded on the log. In order to save the log file, click on [icon]

<Log Start Message>
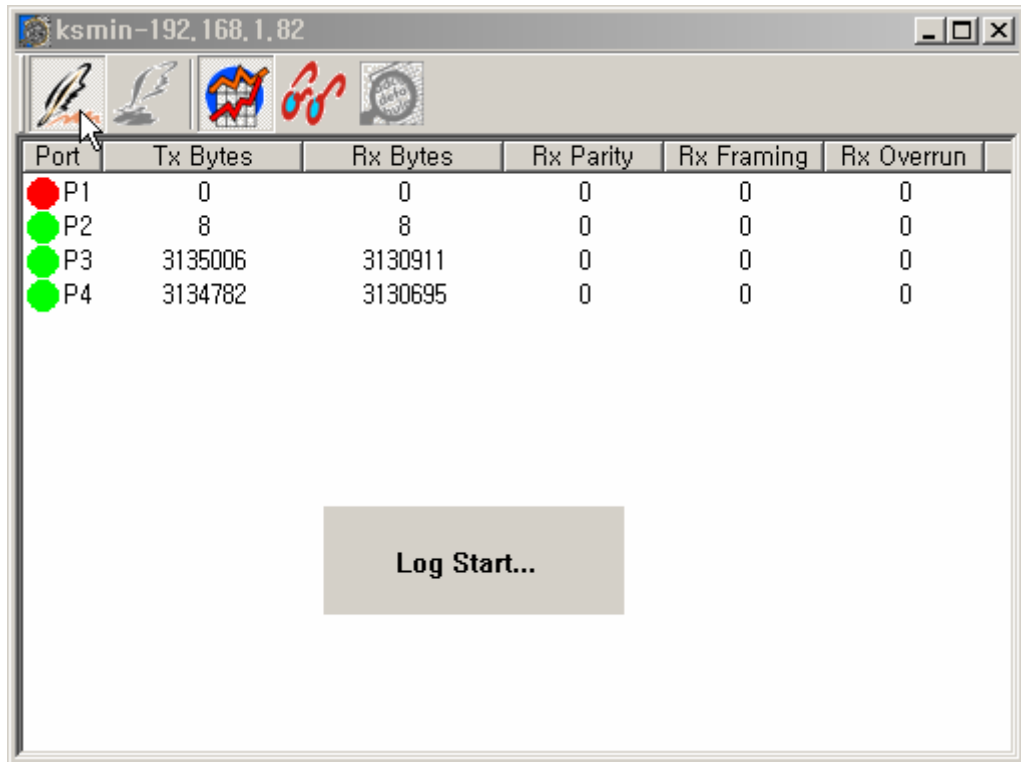
When saving a log file, enter the file name and click on "Save".

<Log Window>
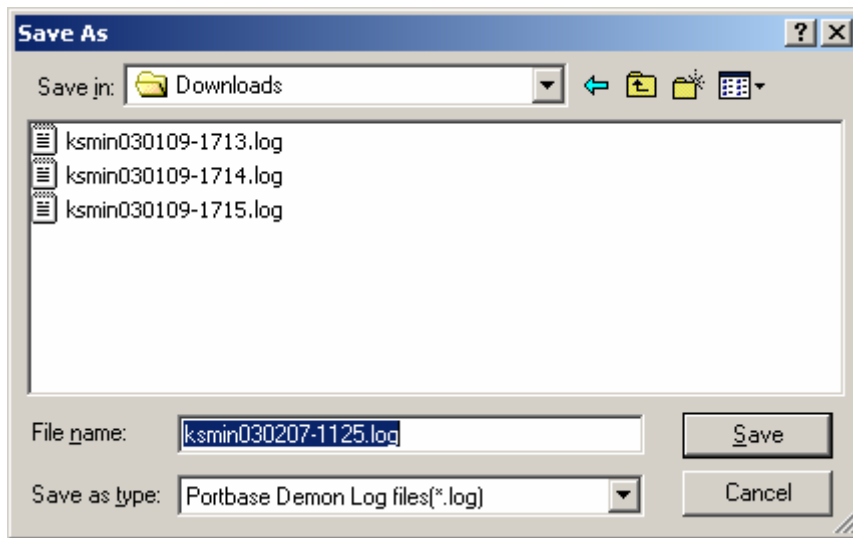
⑤ Log File

A log file is configured as below.

```
SystemBase Portview Demon Log File - Thu Jan 09 20:26:18 2003■


========= System Configuration =========
Name           : ksmin
Group          : software2
Location       : application
IP Address     : 192.168.1.82
MAC Address    : 00-05-F4-00-04-54
=============================================


======================= Port Configuration =========================
No      Status  Type   Protocol      Speed           Remote Server
---------------------------------------------------------------------
00      Enable  RS232  passive 9600/None/8bit/1bit    0.0.0.0 : 4000
01      Using   RS232  active  9600/None/8bit/1bit    192.168.1.80 : 4000
02      Using   RS232  COM     9600/None/8bit/1bit     0.0.0.0 : 4000
03      Using   RS232  COM     9600/None/8bit/1bit     0.0.0.0 : 4000
=====================================================================
```

<Initial System Configuration>

● Initial system setting

The red dotted part on the above screen. It contains the default settings.

● Port setting

The below "Port Configuration" part.

The port status at the time of log start.

It has the same items of the "Settings" window of device server's View.

```
----------------------------------------------------------------
Date            Time            Port    Demon   Status
----------------------------------------------------------------
03/01/09        20:26:27        04      COM     Terminated
03/01/09        20:26:32        04      COM     Started
03/01/09        20:26:34        03      COM     Terminated
03/01/09        20:26:36        02      active  Terminated
```

<Demon Log Screen>

● Demon record

Records start and end date, time, port and status of the Demon of each port.

◆ Date   : Year/Month/Date

◆ Time   : Hour:Min:Sec

◆ Port   : The port where the Demon event has occurred

◆ Demon : Type of Demon

◆ Status   : Demon starts - Started

                 Demon ends - Terminated

● Connection error and reconnection

```
03/01/09        20:26:57        Connection Closed. All Demons were Terminated!
03/01/09        20:27:11        Connection Recovered!

=========  System Configuration  ==========
Name            : ksmin
Group           : software2
Location        : application
IP Address      : 192.168.1.82
MAC Address     : 00-05-F4-00-04-54
============================================


========================= Port Configuration ==========================
No      Status  Type    Protocol      Speed           Remote Server
-----------------------------------------------------------------------
00      Disable RS232   passive 9600/None/8bit/1bit    0.0.0.0 : 4000
01      Disable RS232   active  9600/None/8bit/1bit    192.168.1.80 : 4000
02      Disable RS232   COM     9600/None/8bit/1bit    0.0.0.0 : 4000
```

<Connection End Message and Reconnection Message>

The red dotted part shows the disconnecton time and indicates that all the programs are terminated.

The reconnection time and settings are displayed when the connection is restored.
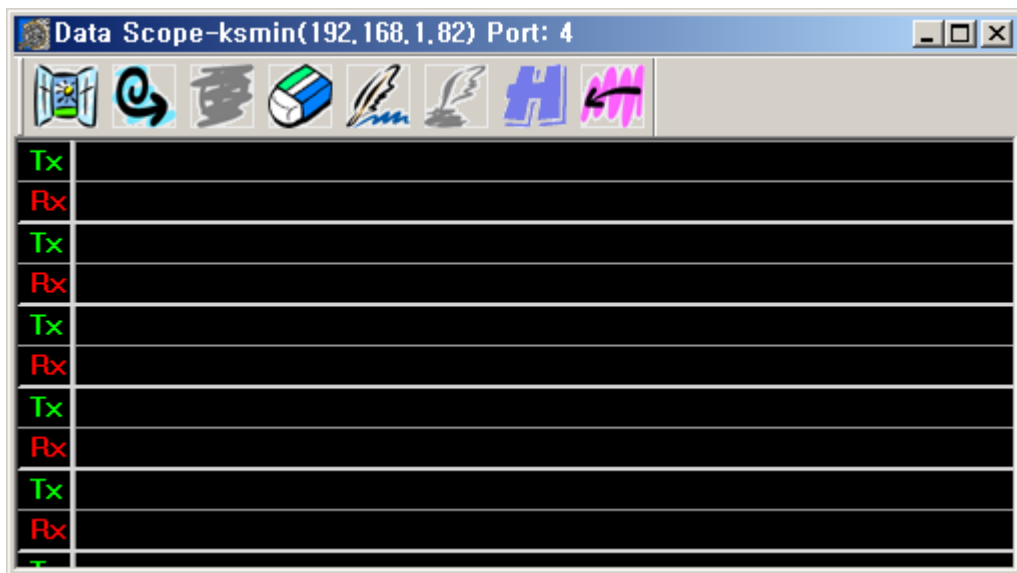
(Status at reconnection is Disable.)

■ Data Scope View

Datascope window:

1) Displays input/output data on a port in ASCII.

2) Displays input/output data on a port in HEX.

3) Saves input/output data on a port.

① Starting data scope view

Select the port you want to see data scope of in the device server's View window and click on ![icon] or double-click on the port.

<Data Scope Window>

● Toolbar

![icon]	Open	:	Read the data scope file in ".cap", and display it on a new window.
![icon]	Start	:	Start data scope of the port. The button remains pressed once it is started.
![icon]	Stop	:	Activated while data scope is running. Click this button to stop data scope.
![icon]	Erase	:	Initialize the window.
![icon]	Capture Start	:	Write the data scope content on a file. If you click this button the "Capturing" window is displayed.
![icon]	Capture Stop	:	End writing data scope content, and save the file.

|		
[icon]	Hexa Code	Display the data scope content in Hexa code. If the button remains pressed, ASCII data is changed into two-digit Hexa code.
[icon]	Back	Close the window. (If Capture is active, the file saving window is displayed.)

- Data View

  Input/output data on the port is displayed. If the data type is ASCII, the data is displayed as they are. If you select HEX, they are displayed in hexadecimal. Use scroll bar to see the rest of the data.

<Data View Window>
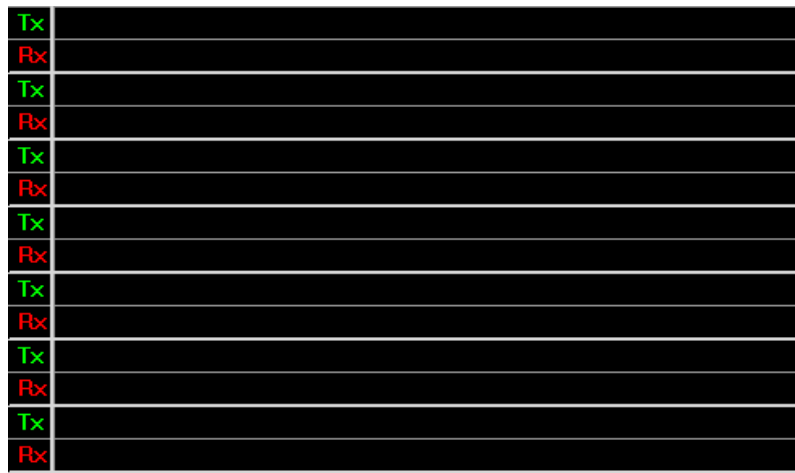
② Operation

● Data Scope Starting

If you click on and the remote Tx/Rx data is displayed on the screen.

<Data Scope - Ascii>

Tx data is displayed on the upper line and Rx data is displayed on the lower line. The function measures buffering status near the data exchange time to arrange the data. To stop the data scope function, click on

● File Saving

If you click on "Capture Start", the "Capturing" message is displayed and saved. (The Capture Start button is pressed down while the message is saved on a file.) Click on "Capture Stop". The default file name is "pyymmddhhmm.cap", and each two digit number indicates year/month/date/hour/minute.

<Saving Data Scope File>
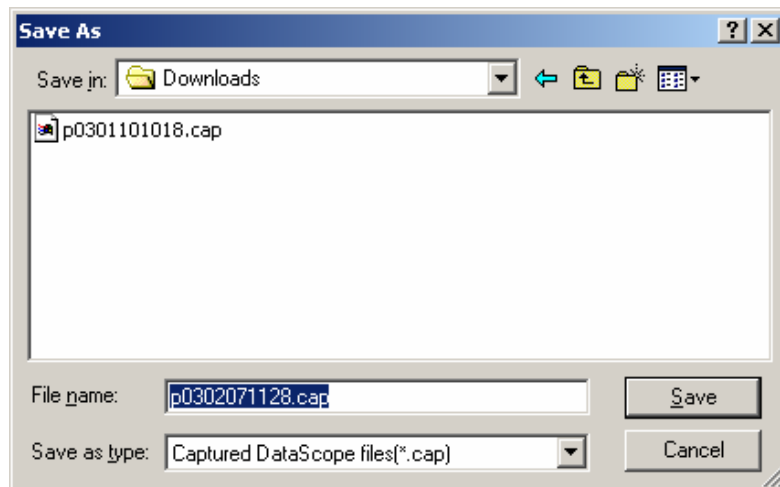
To open a saved file, click on and select a file. The data is displayed on a new window.

● Data in Hexa code

In order to view data in hexadecimal format on Data View, click on

Use scroll bar to see the rest of the data.

Tx	61 62 63 64 65 66 67 68 69 6A 6B 6C 6D 6E 6F 70 71 72 73 74 75 76
Rx	
Tx	77 78 79 7A 41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50 51 52
Rx	
Tx	53 54 55 56 57 58 59 5A 30 31 32 33 34 35 36 37 38 39
Rx	61 62 63 64 65 66 67 68 69
Tx	
Rx	6A 6B 6C 6D 6E 6F 70 71 72 73 74 75 76 77 78 79 7A 41 42 43 44 45
Tx	
Rx	46 47 48 49 4A 4B 4C 4D 4E 4F 50 51 52 53 54 55 56 57 58 59 5A 30
Tx	61 62 63 64 65 66 67 68 69 6A 6B 6C 6D
Rx	31 32 33 34 35 36 37 38 39

<Data Scope - Hex>

4. Uninstalling Portview

Select 'Start' → 'All Programs' → 'SystemBase Portbase' → 'Portview' → 'Uninstall Portview'.