User's Manual

WX1
GateEye

YOKOGAWA ◆
Yokogawa Electric Corporation

Thank you for purchasing GateEye. GateEye is a software program that operates via Ethernet to acquire image data from network cameras, and distributes those images to clients on the network. This user's manual explains the operating procedures of the GateEye software. To ensure proper use of the software, please read this manual thoroughly before beginning operation. After reading the manual, keep it in a convenient location for quick reference in the event a question arises. Refer to the manuals that came with your version of Windows for information on how to use that program.

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End of document

Manual Scope and Conventions

Scope of This Manual

This manual does not explain the basic operations of your PC's operating system (OS). For information regarding the basic operations of Windows, see the Windows user's manual.

Conventions Used in This Manual

- **Units**
  K Denotes 1024.   Example: 10 KB
  M Denotes 1024K.   Example: 10 MB
  G Denotes 1024M.   Example: 2 GB

- **Boldface Type**
  Hardware and software controls that the user manipulates such as dialog boxes, buttons, and menu commands are often set in boldface type.

- **Subheadings**
  The following symbols are used to distinguish procedural instructions from other information.

  Note   Calls attention to information that is important for proper operation of the instrument.

Contents

1.　Product Overview

GateEye is a software program that operates via Ethernet to acquire image data from network cameras and Yokogawa's DX, MV, and CX series instruments, and distributes those images to clients on the network. GateEye does not store image data. This manual explains how GateEye acts as a client to acquire image data from networked devices (cameras and Yokogawa DX, MV, and CX series instruments), and acts as the server to distribute those images to other clients. GateEye allows you to enter connection settings for downloading images from a server, and view connection settings, image data client information, and server information. Settings for distributing images must be entered on each individual client.

Network camera, DX/MV/CX (snapshots)
Up to 4 units can be connected

Acquires image data

GateEye

Requests image data

Distributes image data*

* The data that can be distributed is limited to 128 kB.

Client software
Up to 16 units can be connected

AddObserver　**Yokogawa's AddObserver or other clients**

Client software

Client software

Protocol: HTTP (1.0 or later), dedicated DX/MV/CX communication comman

Protocol: TCP/IP

Specifications for image acquisition and distribution are as follows:

Acquisition Function

Max. no. of servers:	4
Protocol:	HTTP (1.0 or later), dedicated DX/MV/CX communication commands
Image format:	JPEG,PNG
Connection example:	Network camera (able to take JPEG images, and supports URLs. Panasonic KX-HCM1, Yokogawa FGC21 etc.), DX/MV/CX (snapshots)

Distribution Function

Max. no. of clients:	16
Protocol:	TCP/IP
Client example:	YOKOGAWA AddObserver RMPanel
Image size:	640 × 480 dpi recommended.

GateEye imposes a limit of 128 Kbyte per image data file. If files larger than 128 KB are sent, parts of the data will be lost. Screen size: 640 × 480 dpi recommended. GateEye imposes an upper limit of 128 kB per image data file. If files larger than 128 KB are sent, parts of the data will be lost.

2. System Requirements

Required Operating System

Run DAQWORX under any of the following operating systems.
- Windows 2000 Professional SP4
- Windows XP Home Edition SP3
- Windows XP Professional SP3 (excluding Windows XP Professional x64 Editions)
- Windows Vista Home Premium SP2 (excluding the 64-bit editions)
- Windows Vista Business SP2 (excluding the 64-bit editions)
- Windows 7 Home Premium, SP1 (32-bit and 64-bit editions)
- Windows 7 Professional, SP1 (32-bit and 64-bit editions)

The language displayed by the software under different language versions of the OS are as follows.

OS Language	Software Language
Japanese	Japanese
Other	English

Hardware Requirements

The following hardware and software are required to use GateEye.
- PC: A PC that runs one of the OS above, and that meets the following CPU and memory requirements.

    When Using Windows 2000 or Windows XP
    Pentium 4, 1.6 GHz or faster Intel x64 or x86 processor; 512 MB or more of memory

    When Using Windows Vista
    Pentium 4, 3 GHz or faster Intel x64 or x86 processor; 2 GB or more of memory

    When Using Windows 7
    32-bit edition: Intel Pentium 4, 3 GHz or faster x64 or x86 processor; 2 GB or more of memory
    64-bit edition: Intel x64 processor that is equivalent to Intel Pentium 4, 3 GHz or faster; 2 GB or more of memory

- Free disk space: 200 MB or more
- Communication device: An Ethernet (when connecting to DAQLOGGER or Remote Monitor), RS-232, or GPIB port that is recognized by the operating system.
- CD-ROM drive: Used to install the software
- Peripheral devices: A mouse supported by the operating system
- GP-IB port: Required for GPIB communications between the software and a WT series instrument
- Monitor: A video card that is recommended for the OS and a display that is supported by the OS, has a resolution of 1024×768 or higher, and that can show 65,536 colors (16-bit, high color) or more.

3.   Running and Exiting

Running GateEye

1. From the Windows Start menu, choose **Programs > YOKOGAWA DAQWORX > GateEye > GateEye**.
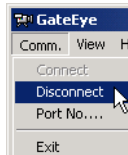
GateEye starts.
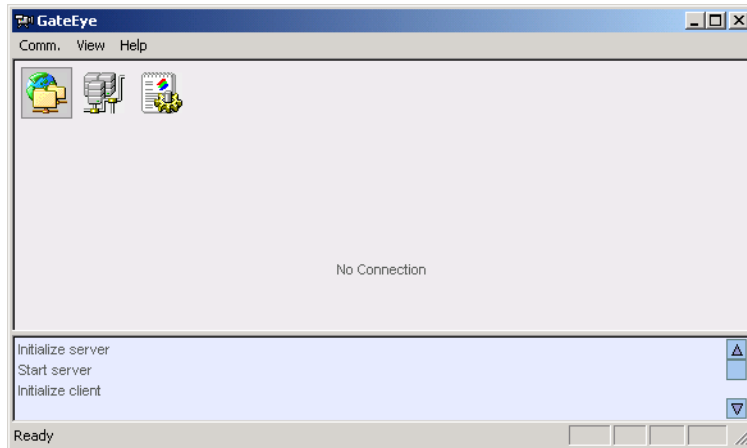
Note

If connection information was specified the last time the GateEye was closed, it reopens the connection with the instruments the next time you start the software.
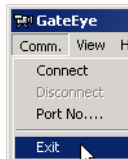
Exiting GateEye

1. Choose **Comm. > Disconnect** from the menu bar.
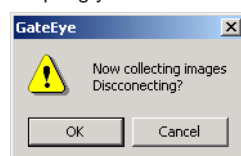

The connection with the instruments is cut.

2. Choose **Comm. > Exit** from the menu bar.

The current connection information remains saved, and GateEye closes.

Note

If you attempt to exit the software without closing the connection, a dialog box appears prompting you to confirm whether you want to close the connection.

Click the OK button to close the connection.

4.   Entering Connection Conditions

1. Choose **View > Connection Configuration** from the menu bar, or click the Connection Configuration button

Connection configuration button
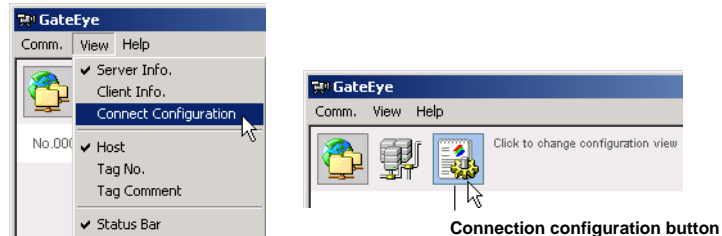
The connection condition setting screen appears.

Click to switch the protocol type

Connection setting number You can select a value between 001 and 003.
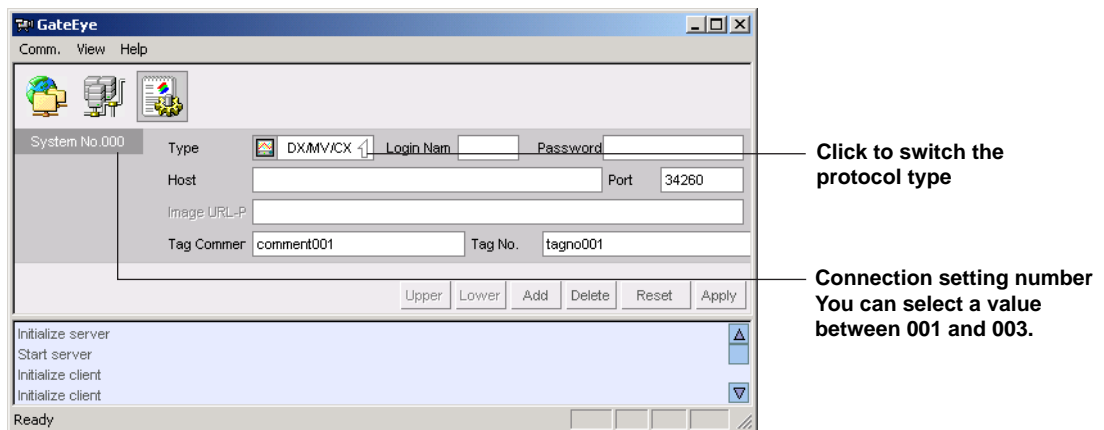
2. Enter the following settings as shown on the screen.

Type:	Select a protocol type of HTTP or DX/MV/CX.
Login name:	Specify only if the protocol type is DX/MV/CX. Input the user name for the connection with the DX/MV/CX.

Note

Up to three users can log in to a single DX, MV, or CX unit. However, when one user is receiving image data, other users will encounter errors if they attempt to send an image request command. Therefore we recommend that you limit one user to each DX, MV, or CX unit.

Password:	Specify only if the protocol type is DX/MV/CX. Input the password for the connection with the DX/MV/CX.
Host:	Enter the host name of the device to which you wish to connect. Up to 256 alphanumeric characters can be input. Follow the conventions for your network when entering settings.
Port:	Enter the port for the network camera. Generally you do not need to change these numbers. Change only if the initial values are not appropriate for your network. When changing settings, enter values that are allowed on your network, and that match those on your server (network camera etc.). The default value is 80.

	Image URL:	Enter if the protocol type is HTTP. Refer to the specifications of the network camera to which you will connect for this setting.
	Tag Comment:	Enter a tag comment as desired for each acquired image. Up to 16 characters can be entered. Any character that can be accessed from the keyboard and displayed by the operating system may be entered.
	Tag No.:	Enter a tag comment as desired for each acquired image. Up to 8 characters can be entered. Any character that can be accessed from the keyboard and displayed by the operating system may be entered.

Editing Settings in the Connection Settings Screen

By clicking editing buttons, you can add, edit, or delete connection settings, and then apply them.
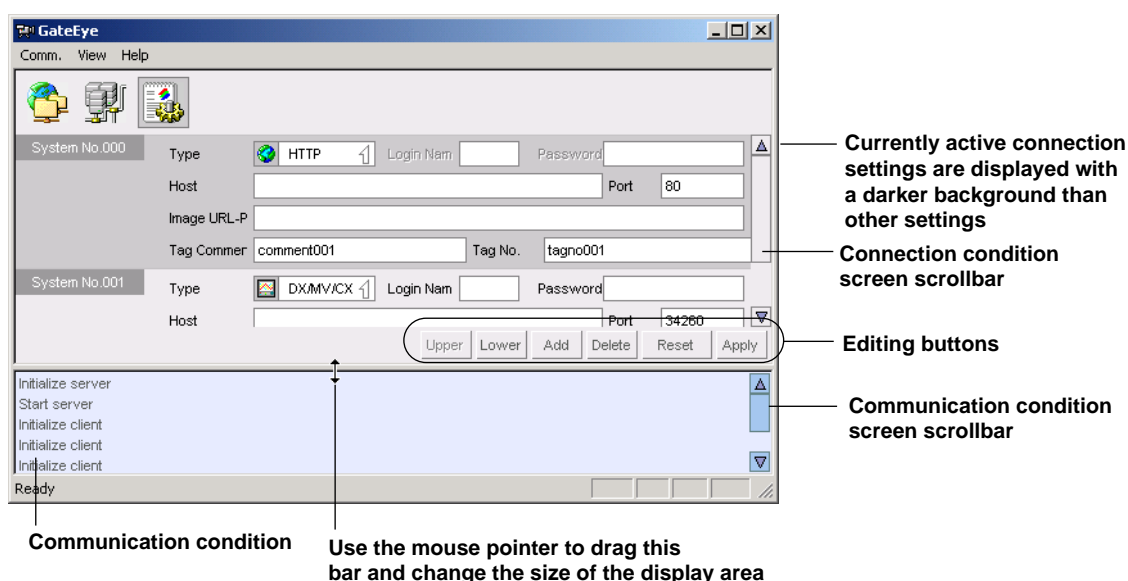
	Upper:	Move to the previous connection setting item.
	Lower:	Move to the next connection setting item.
	Add:	Add a connection condition. You can add a system number from 000 to 003.
	Delete:	Delete the current connection condition.
	Redo:	Clear edited settings, and read from current connection. The edited values are not applied.
	Apply:	Apply the edited setting conditions. The settings will not take effect until you reconnect with the device. Disconnect, and then reconnect the device.

5. Connecting and Disconnecting Communication with a Target Device, and Entering Port Numbers

Connecting to a Target Device

You can open a connection for communications with a particular device on the network, then begin downloading images.

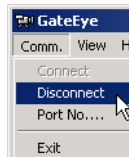*1.* Choose **Comm. > Connect** from the menu bar.
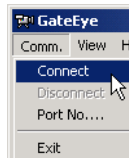
Note

When distributing image data, set the software that will act as the client.

Closing the Connection

1. Choose **Comm. > Disconnect** from the menu bar.

All connections are cut.

Entering the Port Number for Connection with the Client

Generally you do not need to change these numbers. Change only if the initial values are not appropriate for your network. When changing settings, enter values that are allowed on your network, and that match those on your server. The default value is 50290.

1. Choose **Comm. > Port No.** from the menu bar.
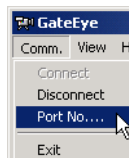
The Port No. dialog box opens.
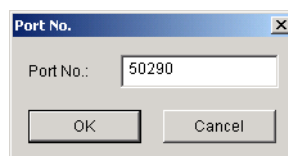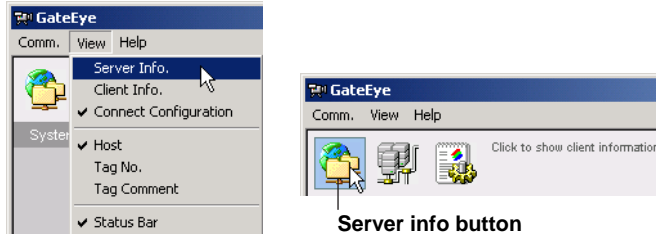
2. Enter the port number.

Note

The new port number setting will take effect the next time you start the instrument. Restart the software to activate the new settings.
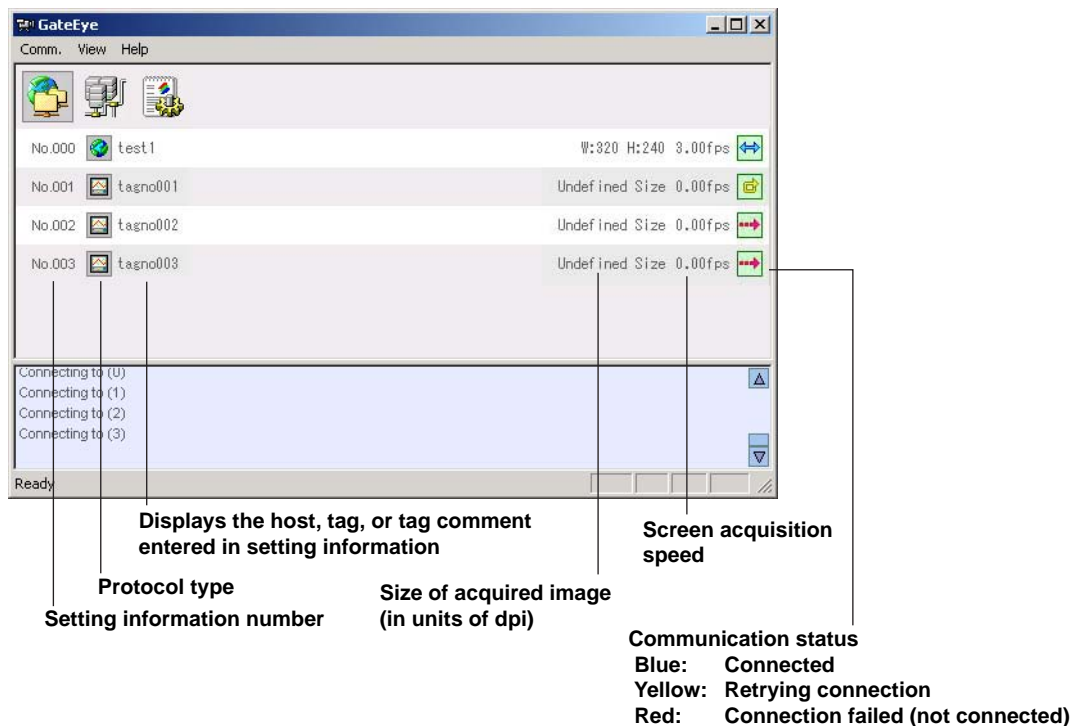
6.   Displaying Image Server Information

You can display image server information.

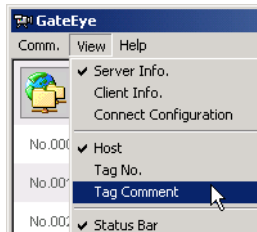*1.* Choose **View > Server Info**. from the menu bar, or click the Server Info button.

Server info button

Connection information is displayed.

Displays the host, tag, or tag comment entered in setting information

Protocol type

Setting information number

Size of acquired image (in units of dpi)

Screen acquisition speed

Communication status
Blue: Connected
Yellow: Retrying connection
Red: Connection failed (not connected)

Displaying the Host, Tag, or Tag Comment of the Target Device

1. Click View on the menu bar and select the host, tag,or tag comment.
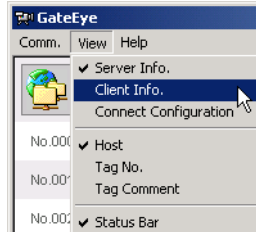
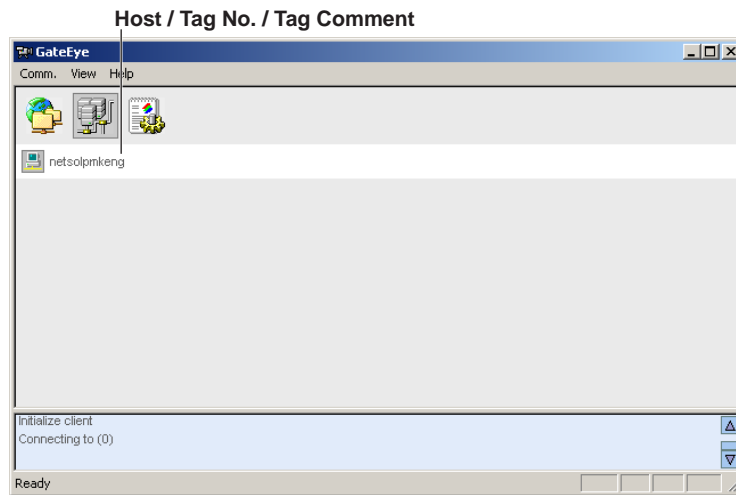The selected item is displayed.

7. Displaying Client Information

You can display image client information.

1. Choose **View > Client Info**. from the menu bar, or click the Cint Info button.

Client info button

Client informaion is displayed.

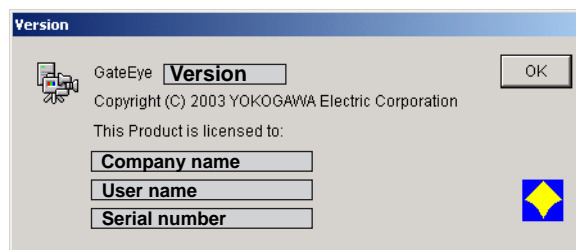**Host / Tag No. / Tag Comment**

Note

Settings for distributing images must be entered on the client software.

8.   Displaying the Version and Other Information

1. Choose **Help > About**.

The Versiondialog box opens.

9. Message and Corrective Actions

Error

No.	Message	Corrective Actions
E211	Cannot write to file.	Check if the disk capacity is sufficient or if the file systems is normal.
E212	Cannot read file.	Check if the file exists and is supported by the software or if the file system is normal.
E213	Cannot open file.	Check if the file exists and is supported by the software or if the file system is normal
E401	Communication error.	Check if the recorder connected for communication is powered on and if the cable is properly connected. Also check the following items according the the communication type. • For Ethernet Check if address settings are correct; the TCP/IP protocol is installed in Windows; the Ethernet card is properly installed. • For RS-232 and RS-422-A Check if the baud rate settings match; the port (COM1 to COM9) settings match, the address settings are correct (RS-422-A); the serial port of the PC is active and the appropriate cable is being used.
E402	Communication timeout.	-
E403	Cannot open a communication port.	Same as E401.
E501	Invalid license number. Please reinstall the software.	Install the software again.
E1010	Execution of a process failed.	Check whether an executable function exists, or whether its files are damaged. If this error appears frequently, reinstall the software.
E1011	Execution of a service failed.	Check whether an executable function exists, or whether its files are damaged. If this error appears frequently, reinstall the software.

Message

No.	Mesage
M1201	Model determination was successful.
M1210	Setting changes saved before execution.

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