User's Manual

WX1 GateEye

vigilantplant®



Foreword

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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Revisions

1st Edition June, 20032nd Edition June, 2007

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Manual Scope and Conventions

Scope of This Manual

This manual provides instructions on how perform basic operations with the software when running under Windows XP, Windows 2000, and Windows Vista. 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

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

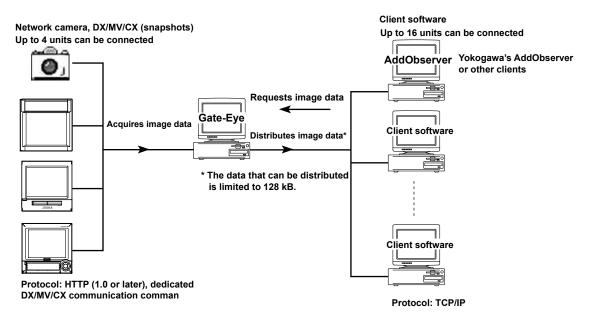
Calls attention to information that is important for proper operation of the instrument.

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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.



Specifications for image acquisition and distribution are as follows:

Acquisition Function

Max. no. of servers:

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 SP2
- Windows XP Professional SP2 (excluding Windows XP Professional x64 Edition)
- · Windows Vista Home Premium (excluding the 64-bit edition)
- Windows Vista Business (excluding the 64-bit edition)

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 512 MB or more of memory **When Using Windows Vista** Pentium 4, 3 GHz or faster 2GB 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: When Using Windows 2000 or Windows XP

A monitor supported by the OS of 1024 \times 768 dpi or higher,

65,536 colors or more.

When Using Windows Vista

A video card recommended for use with Vista and a monitor supported by the OS of 1024 × 768 dpi or higher, 65,536 colors

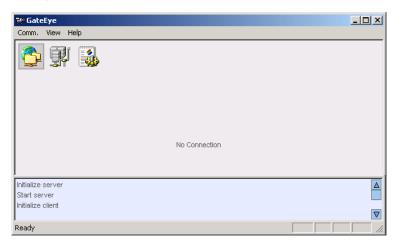
or more.

3. Running and Exiting

Running GateEye

 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

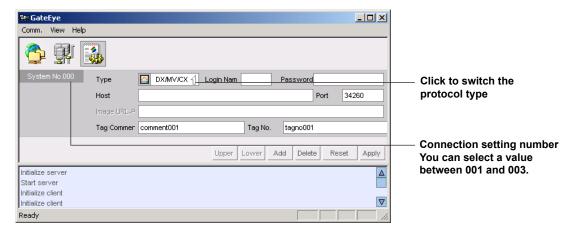
 Choose View > Connection Configuration from the menu bar, or click the Connection Configuration button





Connection configuration button

The connection condition setting screen appears.



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.

4. Entering Connection Conditions

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.

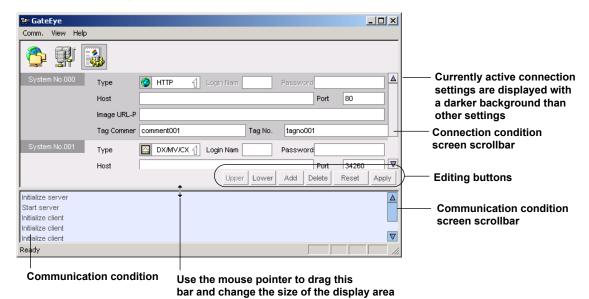
Tag No.: Enter a tag comment as desired for each acquired image. Up to 8

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.

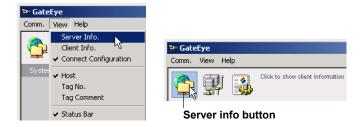
Note

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

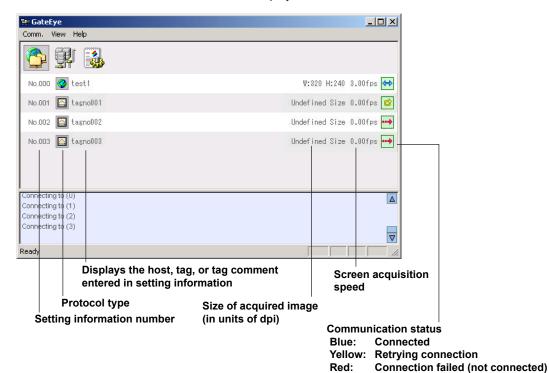
6. Displaying Image Server Information

You can display image server information.

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



Connection information is displayed.



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.

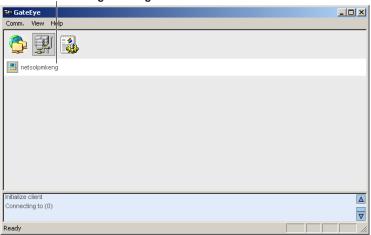
1. Choose View > Client Info. from the menu bar, or click the Cint Info button.





Client informaion is displayed.

Host / Tag No. / Tag Comment



Note -

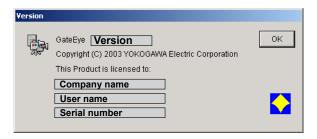
Settings for distributing images must be entered on the client software.

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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<u>L</u>
Login name: 9
M
Max. no. of clients: 6 Max. no. of servers: 6
P
Password: 9
Port:
R
required operating system 7 running GateEye
S
server info
<u>T</u>
Tag Comment:
Tag No.:
V
version information