

STREAMING



IP SURVEILLANCE BEYOND IMAGINATION

INEX



User's Manual

Table of Contents

Chapter 1 — Introduction	1
1.1 System Diagram	2
Multi-Server	2
Single-Server	2
Chapter 2 — Installation.....	3
2.1 Product Information.....	3
Package Contents	3
System Requirements.....	3
2.2 Installation	4
Server System	4
Client System	7
2.3 Uninstall.....	9
Chapter 3 — Getting Started.....	11
3.1 Running Services.....	11
3.2 Registering Services	11

Chapter 1 — Introduction

This document describes installation and operation of iNEX Video Wall software, which is designed to be used with iNEX Standard or iNEX Federation software.

Multiple users can monitor video from devices through the streaming server. When the streaming service is not running, monitoring is still available, but it is restricted to fewer users based on the maximum number of simultaneous connections supported by the device.

When you register more than one streaming service by buying additional WIBU-Keys, the iNEX program distributes streaming workload to the several streaming servers by using the load balancing function, and it increases monitoring stability. If one of the streaming servers stops operating for any system problem, other streaming servers take that server's place within the limit of the number of channels that can be streamed.

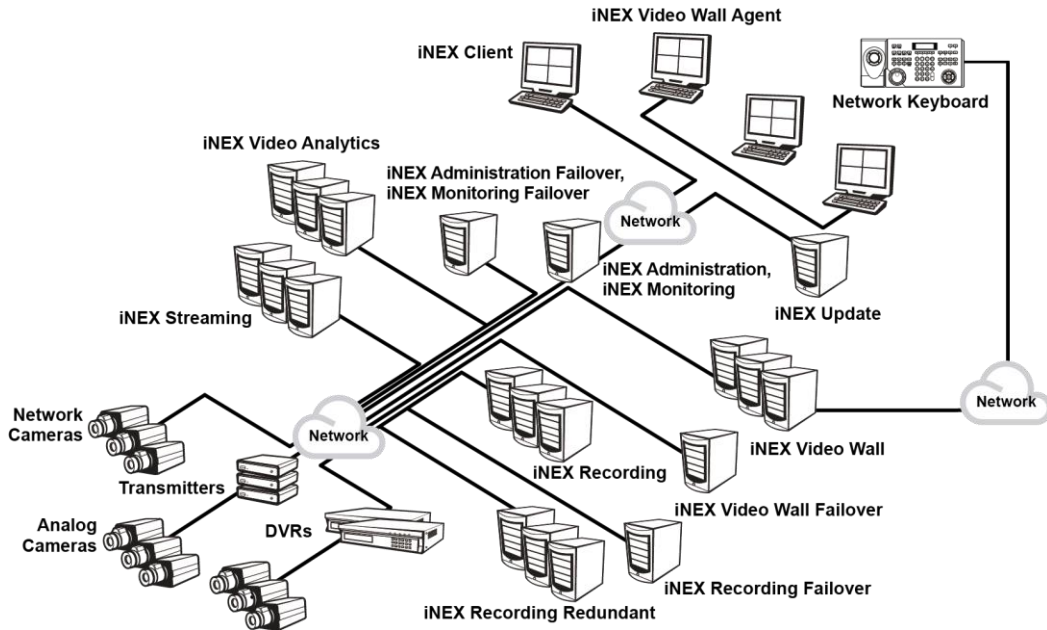
- Number of services and channels that streaming is available for:
 - Service Registration: One to four streaming services (the number of streaming services that can be registered differs depending on the type and number of WIBU-Keys purchased)
 - Streaming: The number of channels that can be streamed equals the number of channels that can be recorded unless streaming WIBU-Keys have been added (maximum of 512 to 2,048 channels depending on the type and number of the WIBU-Keys when WIBU-Keys have been added).

NOTES:

- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).
- The software included in this product contains some Open Sources. You may obtain the complete corresponding source code from us. See the Open Source Guide on the software CD (*OpenSourceGuide\OpenSourceGuide.pdf*) or as a printed document included along with this document.

1.1 System Diagram

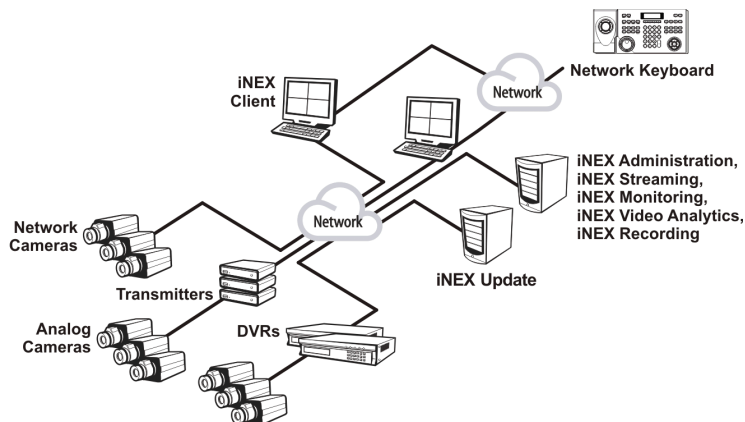
Multi-Server



NOTES:

- The administration service and monitoring service can run on separate PCs.
- The update service can run on a client PC or a PC with other iNEX service programs installed.

Single-Server



NOTES:

- When 256 or more devices are registered, it might take several minutes or longer to change the settings of the Setup program.
- It is suggested that you run the recording, streaming and video analytics services on separate PCs.
- The update service can run on a client PC or a PC with other iNEX service programs installed.

Chapter 2 — Installation

2.1 Product Information

Package Contents

- Installation CD
- User's Manual
- WIBU-Key (USB Dongle)

NOTES:

- Up to four WIBU-Keys can be recognized by one administration server.
- If a WIBU-Key is disconnected from an administration server, the iNEX program will not operate properly.
- Stop running all services before connecting or disconnecting a WIBU-Key.

System Requirements

Server System

- Operating System: Microsoft® Windows® XP 32-bit/Vista (Home Standard, Business, Ultimate, Enterprise), Microsoft® Windows® 7 (Home Premium, Professional, Ultimate), Microsoft® Windows® 8 (Pro, Enterprise), Microsoft® Windows® Server 2003/2008/2012
- CPU: Intel Core i5-3570 3.30GHz/Intel Xeon E3 or faster (4cores or more)
- RAM: 2GB or more
- VGA: AMD Radeon™ HD 2400 or NVIDIA GeForce FX5500 (AMD recommended) (1280x1024, 32bpp or higher)
- Hard Disk Drive: 2 GB or more free space
- LAN: Gigabit Ethernet or faster

Client System

Recommended Requirements

- Operating System: Microsoft® Windows® 7 64-bit (Home Premium, Professional, Ultimate) (Microsoft® Windows® 8 (Pro, Enterprise) compatible)
- CPU: Intel Core i5-3570 3.30GHz or faster
- RAM: 4GB or more
- VGA: AMD Radeon™ HD 7700 or NVIDIA GeForce GTX650 (AMD recommended) (1280x1024, 32bpp or higher)
- Hard Disk Drive: 6GB or more free space
- LAN: Gigabit Ethernet or faster

Minimum Requirements

- Operating System: Microsoft® Windows® XP Home SP 3
- CPU: Intel Core 2 Duo E7200 2.53GHz or faster
- RAM: 2GB or more
- VGA: AMD Radeon™ HD 2400 or NVIDIA GeForce FX5500 (AMD recommended) (1024x768, 24bpp or higher)
- Hard Disk Drive: 1GB or more free space

- LAN: 10/100 Mbps Ethernet or faster

NOTE: The client system that is installed in a 32-bit operating system could have a problem that the video is not displayed, because of a memory shortage. Ask your dealer or distributor about details about it.

FishEye Client-Side Dewarping Recommended Requirements

- Operating System: Microsoft® Windows® 7 64-bit (Home Premium, Professional, Ultimate) (Microsoft® Windows® 8 (Pro, Enterprise) compatible)
- CPU: Intel Core™ i7-3770 3.40 GHz or faster
- RAM: 8GB or more
- VGA: AMD Radeon™ HD 7700 or NVIDIA GeForce GTX650 or higher (1280x1024, 32bpp), multi monitor
- Hard Disk Drive: 6 GB or more free space
- LAN: Gigabit Ethernet or faster
-

NOTES:

- In this document, the “server or server system” refers to a PC on which a iNEX service is running. The “client system” refers to a PC running the Client program.
- The iNEX service (except for the video analytics service) is installed and operates in 32-bit or 64-bit compatibility mode. The video analytics service and other iNEX programs (Client and Service Manager program, etc.) are 32-bit applications.
- It is recommended to add a new unformatted hard disk drive to ensure stable recording. If you are setting up a hard disk drive which contains data, however, you are to delete partition(s) and the file system in advance after formatting. Refer to the PC/server's user manual or consult with the PC/server manufacturer for details about how to format or delete the partition(s) and file system.

2.2 Installation

NOTES:

- It is recommended to install the recording, streaming and video analytics services on separate PCs for better performance of video recording, monitoring and playback.
- Disable your PC's Windows power saving function: *Start* menu → *Power Options* → set both *Turn off the display* and *Put the computer to sleep to Never* (*Power Options* → *Power Schemes* tab → set both *Turn off monitor* and *Turn off hard disks to Never* when using the Microsoft® Windows® XP operating system).

CAUTION: If an older version of iNEX software is installed on your computer, a screen appears asking you to upgrade the software. In this case, you are required to upgrade the software according to the instructions in the screen.

Server System

1. Insert the software CD in the administration server.
2. Run the Setup.exe file in the Setup folder of the software CD.

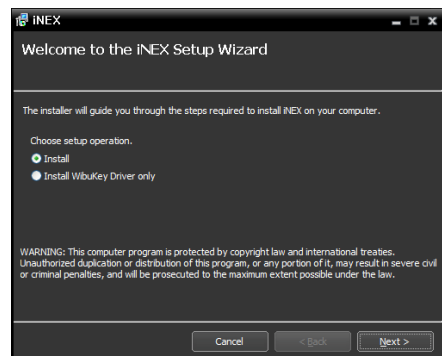
NOTE: The *User Account Control* window might appear when using the Microsoft® Windows® Vista or later operating system. Click *Allow* and install the software following the instructions.

3. Select the language in which to run the program and then click OK.

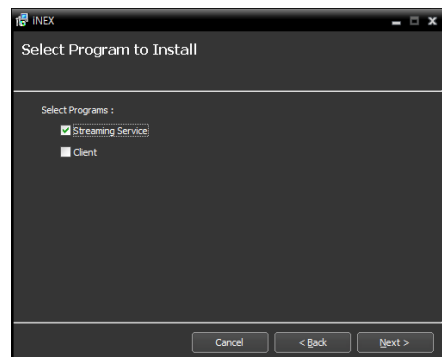


NOTES:

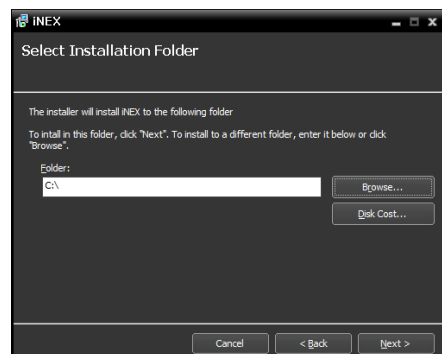
- To properly display the selected language, your PC's operating system should be set to support the selected language.
 - To change the iNEX program's language after the software has been installed, select *Language Selector* in the *iNEX* → *Utility* folder of the *Start* menu before running the *iNEX* program.
4. When the following screen appears, select Install and click Next.



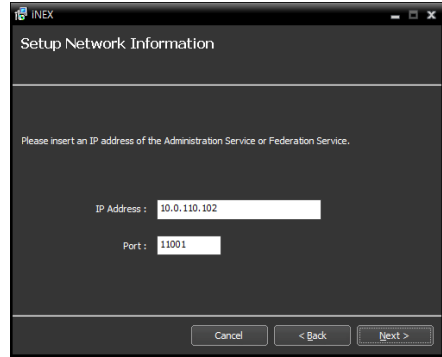
5. Select Streaming Service, and click Next.



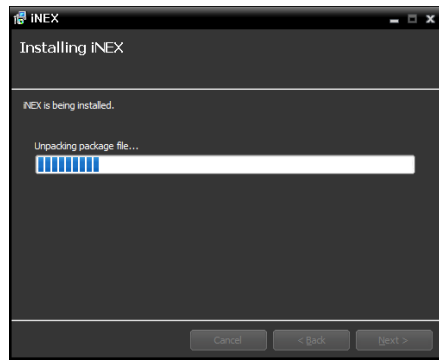
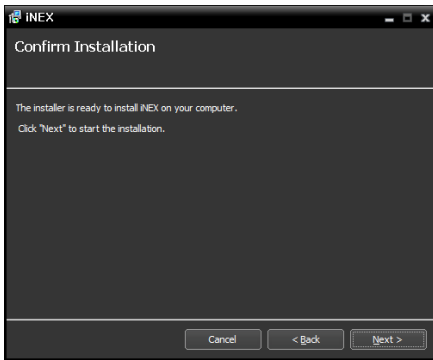
6. Designate the folder path to install the services. Clicking the **Disk Cost...** button shows the available and required disk space for each hard disk drive for the installation. Then click **Next**.



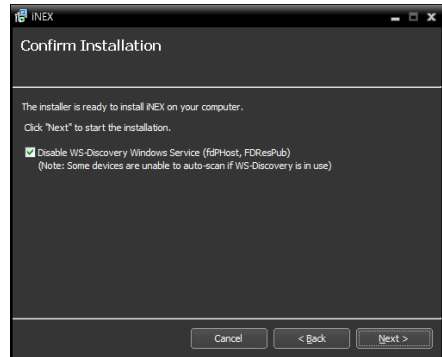
- It is required to enter the IP address and port number of the administration server. You can change the settings in the Service Manager program after completing installation if necessary. When the installation is complete, the streaming service is connected to the administration service via the network if both services are operating.



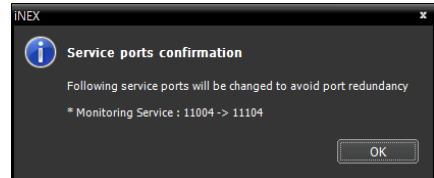
- When the following screens appear, click Next.



NOTE: The following screen appears when using Microsoft® Windows® Vista or later operating systems. It is recommended that you check the *Disable WS-Discovery Windows Service (fdPHost, FDResPub)* box. If you do not check the box, the iNEX program cannot auto-scan devices using ONVIF™ Conformance protocol when scanning devices for device registration.



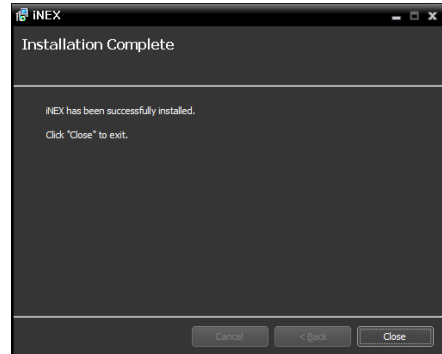
NOTE: The following screen appears when the port number of the service being installed is already in use, and the screen displays the port number that will be changed. The changed port number will be applied when the service starts operating after installation.



NOTE: .NET Framework and the Visual C++ Runtime Libraries are installed automatically, and it may take some time. This installation step will be skipped if the programs are already installed on your computer.

- When the following screen appears, click the Close button to complete the installation.

NOTE: After successfully installing WIBU-Key device driver, the PC restarts automatically.



- Connect WIBU-Keys to the administration server.

Client System

- Insert the software CD in the Client PC.
- Run the Setup.exe file in the Setup folder of the software CD.

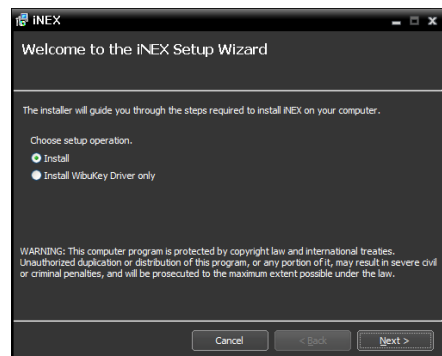
NOTE: The *User Account Control* window might appear when using the Microsoft® Windows® Vista or later operating system. Click *Allow* and install the software following the instructions.

- Select the language in which to run the program and then click OK.

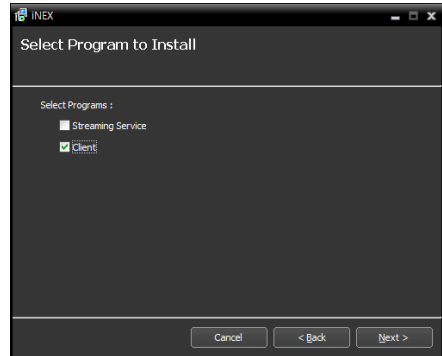


NOTES:

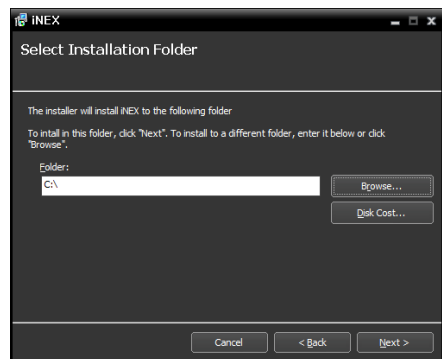
- To properly display the selected language, your PC's operating system should be set to support the selected language.
 - To change the iNEX program's language after the software has been installed, select *Language Selector* in the *iNEX* → *Utility* folder of the *Start* menu before running the *iNEX* program.
- When the following screen appears, select *Install* and click *Next*.



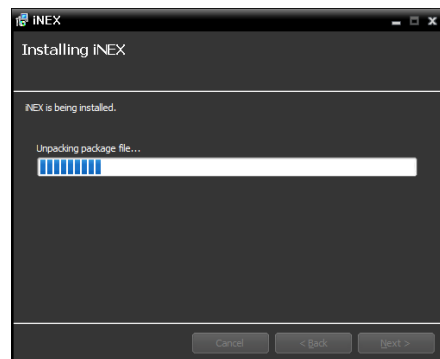
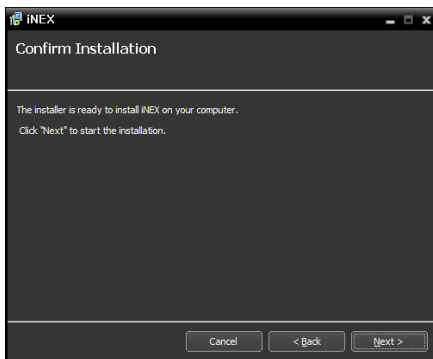
5. Select Client and click Next.



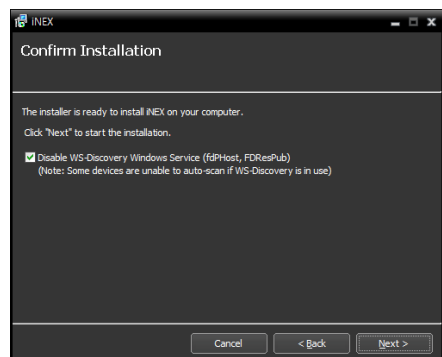
6. Designate the folder path to install the Client program. Clicking the Disk Cost... button shows the available and required disk space for each hard disk drive for the installation. Then click Next.



7. When the following screens appear, click Next.

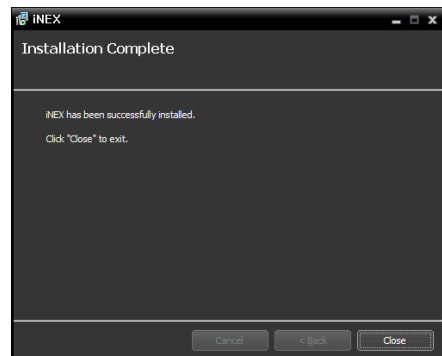


NOTE: The following screen appears when using Microsoft® Windows® Vista or later operating systems. It is recommended that you check the *Disable WS-Discovery Windows Service (fdPHost, FDResPub)* box. If you do not check the box, the iNEX program cannot auto-scan devices using ONVIF™ Conformance protocol when scanning devices for device registration.



NOTE: *.NET Framework* and the *Visual C++ Runtime Libraries* are installed automatically, and it may take some time. This installation step will be skipped if the programs are already installed on your computer.

- When the following screen appears, click the **Close** button to complete the installation.



2.3 Uninstall

- Stop running the services and Client program first.

NOTE: The iNEX software might not be uninstalled correctly if you uninstall it while the services or Client program is running.

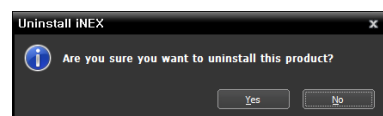
CAUTION: The iNEX software should be uninstalled following the procedures below. If you delete the installation folder manually, the iNEX software cannot be uninstalled or reinstalled.

- Go to the Start Menu, and click iNEX. Click Uninstall iNEX.

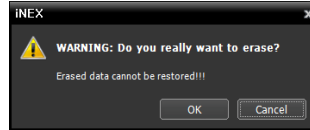
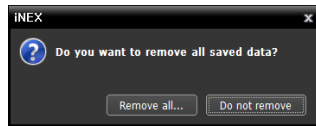
NOTE: You can uninstall the software by using the software CD. Insert the software CD in the server or Client PC and run the *Setup.exe* file. Select *Remove* and click *Next*.



- Click **Yes** when the following screen appears.



- Click the **Remove All** or **Do not remove** button when the following screen appears. Clicking the **Remove All** button deletes all saved data including recorded video and previous settings in the system. Clicking the **Do not remove** button uninstalls the software without deleting any saved data in the system and keeps all saved data in the system.



NOTE: The deleted data cannot be restored once the data is deleted.

5. Click the **OK** button to complete the uninstall process.

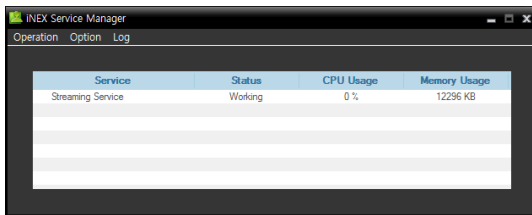
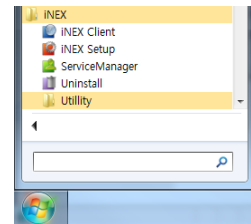
Chapter 3 — Getting Started

Services should be running on the iNEX servers for the iNEX program to operate.

3.1 Running Services

NOTE: A “service” in the iNEX program is a process that runs in the background and performs a specified operation.

When the services are installed, the services run automatically. You can also start or stop running the services manually. Go to the Start Menu → Click iNEX → Run the Service Manager program.



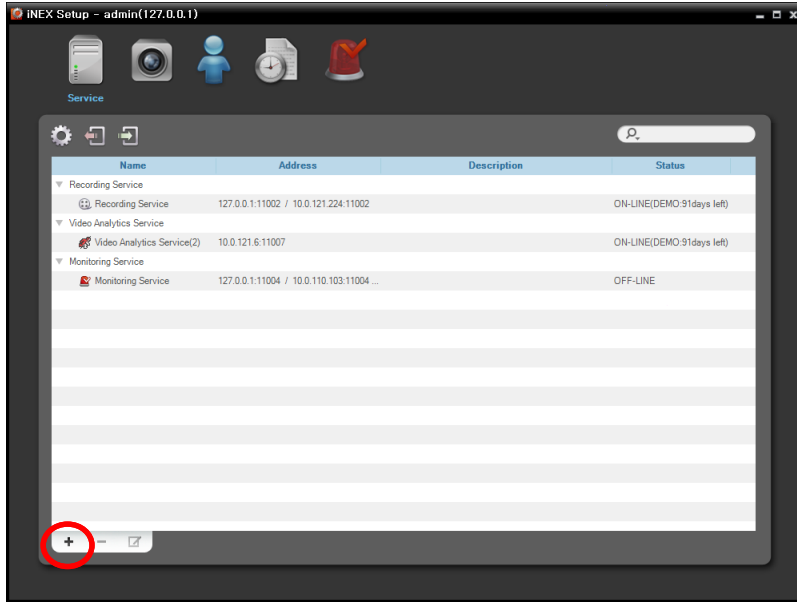
Check the status of the service. If the service is not listed as *Working* under **Status**, start the service manually. Refer to the iNEX Standard User’s Manual for details about the Service Manager program.

3.2 Registering Services

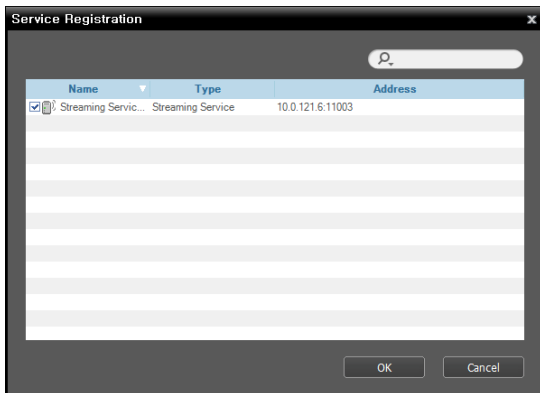
You must register streaming services on the administration service to start the iNEX program.

Go to the Start Menu → Click iNEX → Run the iNEX Setup program and enter login information.

Select the **Service** menu, and then register streaming services following the procedures below.



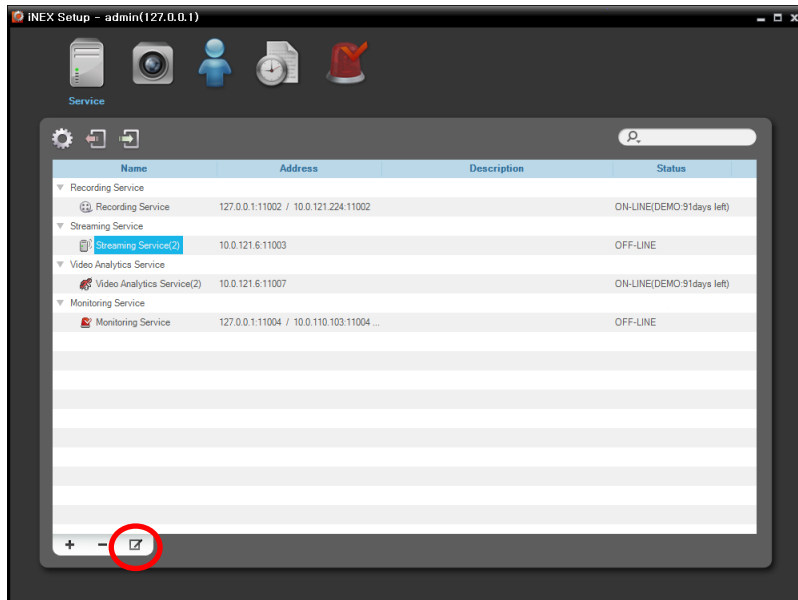
1. Click the **+** button at the bottom. The **Service Registration** window appears, and a list of available services is displayed with information about each service.




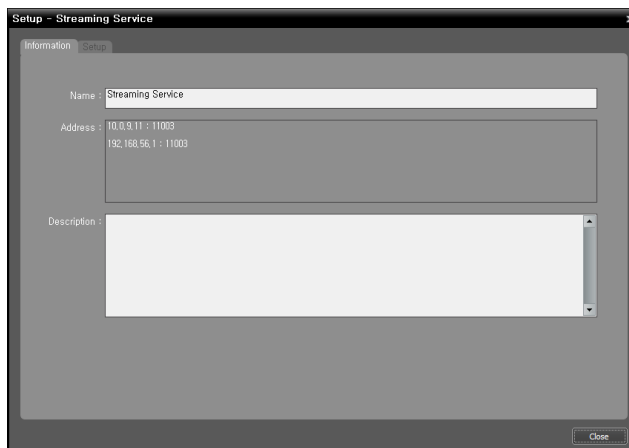
- **Name:** Displays services that are currently connected to the administration service via the network.
- **Type:** Displays the service type.
- **Address:** Display the IP address and port number of each server.

NOTE: Only the services of which the administration server information (*Service Manager* → *Option* → *Server Option*) matches the currently connected administration server are available.

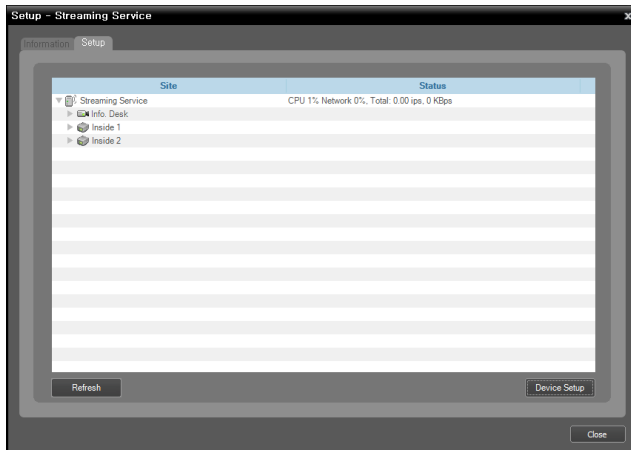
2. Select the streaming service to register on the iNEX system, and the selected services are displayed in the service list.



3. Select a streaming service and click the  button at the bottom. The Setup – Streaming Service window appears. Select the Information tab.



4. Enter the streaming service's name and select the **Setup** tab.



The list of cameras registered on the current streaming service is displayed. Clicking the **Device Setup** button at the bottom allows you to register additional cameras on the current streaming service or removes a camera from the current streaming service.

5. Video from the registered cameras on the current streaming service is streamed to the Client system.

The way to monitor video is identical to that of the iNEX Standard software. Refer to the iNEX Standard User's Manual for details.

WEEE (Waste Electrical & Electronic Equipment)

Correct Disposal of This Product (Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.