i-PRO Ⅱ USER'S MANUAL Ver 1.1
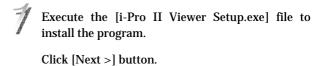
IP VIDEO SERVER

CONTENTS

Introduction

i-Pro II Viewer is the software that enables users to monitor and record the images of Cameras and Mpeg4 IP Video Server(IVS) at up to 16 different locations simultaneously. The **i-Pro II Viewer** also allows its users the ability to control networked, Pan/Tilt/Zoom (PTZ) cameras from any computer which has the **i-Pro II Viewer** software installed on it. In addition, a digital In/Out function is available with the optional.
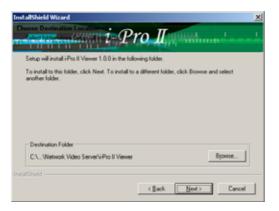
- ❑ Simultaneous Multi-Channel Monitoring (1/4/9/16 Channel.)
- ❑ Sequential and Full Screen Monitoring
- ❑ Snap Shot for a still image and Recording
- ❑ Playback with the i-Pro player
- ❑ Image Attributes Adjustment
- ❑ Pan/Tilt/Zoom Control
- ❑ Digital In/Out Control
- ❑ Event Recording (Sensor Alarm, Motion Detection, Motion Tracking)

1 Execute the [i-Pro II Viewer Setup.exe] file to install the program.

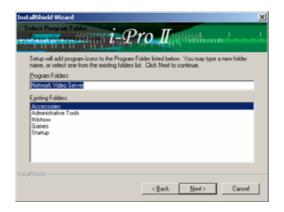Click [Next >] button.

2 Assign the directory to be installed.

To change the directory, click [Browse...] button.

Click [Next >] button.

3 Assign the program folder to be installed.

Click [Next >] button.

4 After installing codec, installation of i-Pro II Viewer will be started automatically.

Please, wait until this process finishes.

If you want to quit installation, click [Cancel] button.

5 If installation is finished, click [Finish] button.

Go to [Start] → [Program] → [Network Video Server] to locate [i-Pro II Viewer] folder.

Structure of i-Pro II GUI

6 Function Tap   1 Video Screen

❑ **Video Screen**   Displays videos from IVS or network camera.

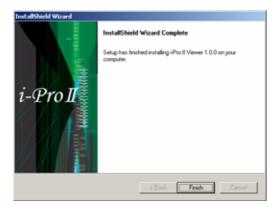❑ **Channel Select**   Enables user to select the channel to control.

❑ **Screen Options**   Simultaneous Multi-Channel (1/4/9/16 channel), Sequential and Full Screen Monitoring.

❑ **P/T Control**   Pan/Tilt Control. (Pan/Tilt and Zoom functions are available on networked PTZ cameras with this button enabled)

❑ **Status Display**   Shows Date & Time, Free HDD Space.

❑ **Function Tap**   Using this Tap, you can switches to several sets of functions such as IVS or Network Camera Connection, Setup, Record, Zoom Control, Image Attributes Controls.

Start and Setup of i-Pro II

❏ Password   i-Pro asks the password for the administration authority.

 ⓘ It is noted that default password is 'admin'.

❏ Setup   Click [General] and press [Setup] button as shown below to start Setup.

❏ General Setup

● Launch on Startup   Launch i-Pro automatically whenever Windows start up.

● Auto Connect   Connect to IVS automatically when i-Pro launched.

● Language   Setup the language for i-Pro II.

● Detect Language   Detect language of O/S automatically and assign.

● Password   Password protection for both startup and exit

● Clear Connect Information   Delete all the information of recent connection..

● Caption   Selects the items to be displayed on OSD.

● Scan Interval   Specifies the time interval of showing video in the
                              Sequential Monitoring Mode (1 ~ 20 sec)

● Sensor Alarm   Check this to activate alarm sound specified bellow
                              when IVS get the event from Alarm I/O module.

❑ Recording Setup

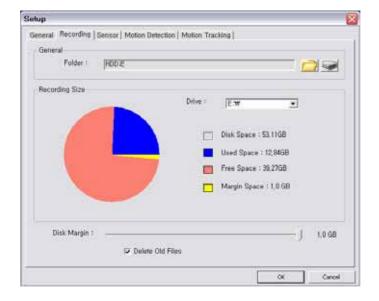● Folder   Specifies the directory to record video. You can
                              specify hard disk more than one as the record folder.

● Recording Size   Shows selected HDD Status. If you select multiple
                              HDDs in the Folder above, you can set up the disk
                              margin for each HDD drives. If recorded video file is
                              going to reach the Margin space in a HDD drive, it
                              will automatically switch the disk drive in alphabetic
                              orders i.e.
                              (C Drive → D Drive → E Drive …)

● Disk Margin   Specifies the HDD marginal space before disk full
                              (100MB~1GB)
                              For example, if your hard disk capacity is 100GB, disk
                              margin is 1 GB and the size of recorded files is
                              reached 99GB, i-Pro will change the disk driver or
                              overwrite to old files or show Disk Full dialog box.
                              Action on disk full state depends on your setup.

● Delete Old Files   When the all disks are full, this decides whether new
                              files overwrite the old files or not.

❏ Sensor Setup

● General / Enabled   Click [Enabled] box to use Sensor operation. If this box is checked, you can specify some reaction to the sensor input from Digital I/O module.

● Setup   You can make each channel enabled.

● Sensor   Select the Input number of I/O module which causes counter actions i.e. output relay or video recording.

● Output   As the input number of I/O module is activated, the output number of I/O module selected above is worked.

● Record Time   You can specify the duration of video recording time when the sensor selected is activated for 5, 15, 30 or 60 seconds.

❑ Motion Detection
Setup

● General / Enabled   Click [Enabled] box to use Motion Detection
                           operation. If this box is checked, you can specify
                           duration of recording from Motion Detection event.

● Setup   You can make each channel enabled

● Record Time   You can specify the duration of video recording time
                           when motion detection is detected.

❑ Motion Tracking

  Setup

Setup

General | Recording | Sensor | Motion Detection | Motion Tracking |

General

☐ Enabled

Channel	Setup	Record Time
1	Off	5
2	Off	5
3	Off	5
4	Off	5
5	Off	5
6	Off	5
7	Off	5
8	Off	5
9	Off	5
10	Off	5
11	Off	5
12	Off	5
13	Off	5
14	Off	5
15	Off	5

OK   Cancel

● General / Enabled   Click [Enabled] box to use Motion Tracking operation. If this box is checked, you can specify duration of recording from Motion Tracking event.
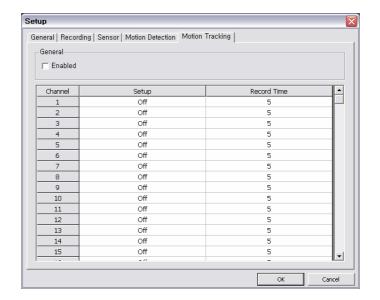
● Setup   You can make each channel enabled.

● Record Time   You can specify the duration of video recording after motion tracking is ended for 5, 13, 30 or 60 seconds

Connecting to IP Video Server
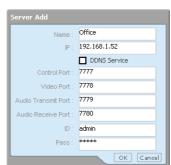
❑ Register to
   Server Manager

After selecting a display screen to show live video, Click the [Connect] button in the [General] tab to call the Server Manager window.

● Using Server manager, you can add, delete the connection info of IVS or network camera. To facilitate management, you also create a group.

● Select [General] group and click the right button of your mouse for the menu. And click [New Site] menu.

● Type IP address, Control Port, Video Port, Audio Transmit Port, Audio Receive Port, User ID, User Password of Server or Camera Name.

● If you can't remember the port number, connect to corresponding server using internet Explorer.

● Alphanumeric character can be used as Server Name. But Server Name must start with alphabet character.

● DDNS Service

   ✓ IP : **DDNS_ID.net4c.net/CAMERA_NAME**

   - **DDNS_ID**   DDNS User ID
   - **CAMERA**   The Camera Name that you
     _NAME   registered on DDNS server

   ✓ Check the box next to DDNS Service.

   ✓ If you select DDNS, Control Port, Video Port, Audio Transmit Port, Audio Receive Port text box will be de-activated

● Registered IVS will be on the list of Server manager. Then click [Connect] button to watch your video of IVS or network camera
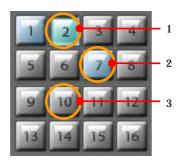
❑ Connect to all IVS
   registered

Click [Connect All] on the [General] Tab to connect all IVSs

Setting Up of Screen

❑ Channel Selection

1 Buttons highlighted in **green**: Currently selected to control the channel.

2 Buttons highlighted in **blue**: Currently connected.

3 Buttons highlighted in **gray**: Currently not connected. and not selected.

❑ Monitoring Option

1 Simultaneous Multi-Channel monitoring (1 / 4 / 9 / 16 CH).

2 Expand a size of video to full screen size. To return to original size with GUI, press [esc] button or click the right button of your mouse.

3 Move to the previous channel.

4 Move to the next channel.

5 Sequential Monitoring. See also the scan interval.

ⓘ Sequential Monitoring by Channel

● Single Display

→ CH1 → CH2 → ● ● ● ● ● CH15 → CH16

● 4-Split Display

→ CH1~4 → CH5~8 → CH9~12 → CH13~16

● 9-Split Display

→ CH1~9 → CH8~16

● 16-Split Display   Not Defined

ⓘ The Sequential interval is determined by setting of Scan interval in [Setup] button on the [General] tab

Function Tab & Buttons

❑ General Tab

● [OSD] Button

This button makes OSD (On Screen Display) turn On/Off. OSD shows camera name, date & time, number of online users.

● [Disconnect All] Button

Disconnect all channels simultaneously.

● [Connect All] Button

This button makes all channels be connected simultaneously, which are connected recently to i-Pro II.

● [Connect/Disconnect] Button

Connect or disconnect the selected channel.

● [Exit] Button

Exit the program. You may need the password.

● [Setup] Button

Set up the program. To use this function, all channels must be disconnected.

● [Motion Tracking Event List] Button

List up and search all video files recorded by Motion Tracking Event.

● [Motion Detection Event List] Button

List up and search all video files recorded by Motion Detection Event.

● [Sensor Alarm Event List] Button

List up and search all video files recorded by Alarm Event.

● [Recording List] Button

List up and search all video files recorded by user.

❑ Recording Tab

● [Still Image Capture] Button

Capture a Still image of current Channel of Video in JPEG format

● [Scheduled Recording] Button

Refer to the [Recording Setup] for more information.

ⓘ All channels should be disconnected to set it up.

● [Stop All video Recording] Button

Stop all recording tasks.

● [Record All video] Button

Record all the channels which are connected to i-Pro.

ⓘ The directory for the recording data can be set in the Setup Record tab in [Set up] Dialog.
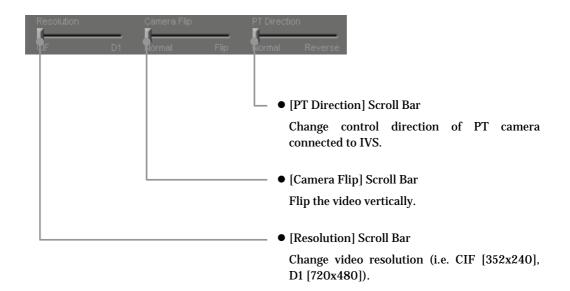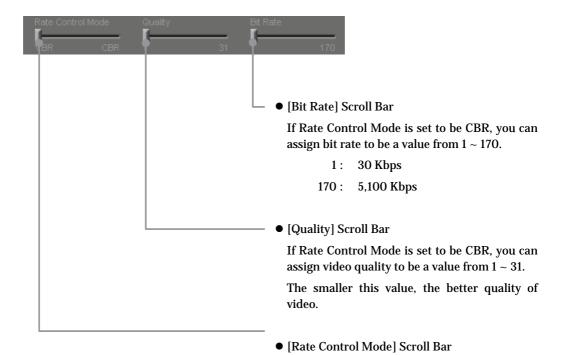
● [Record] Button

Record the video of the selected channel.

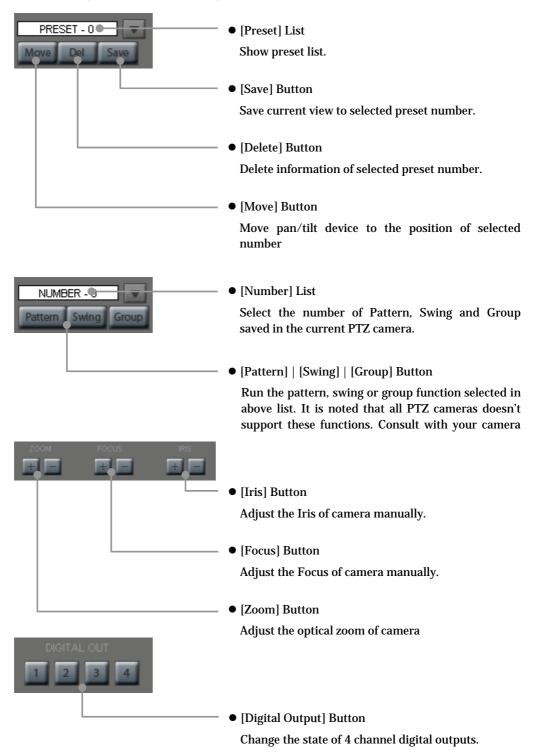ⓘ The directory for the recorded data can be set in the [Set up] Dialog.

❑ Image Tab

● [PT Direction] Scroll Bar

Change control direction of PT camera connected to IVS.

● [Camera Flip] Scroll Bar

Flip the video vertically.

● [Resolution] Scroll Bar

Change video resolution (i.e. CIF [352x240], D1 [720x480]).

● [Bit Rate] Scroll Bar

If Rate Control Mode is set to be CBR, you can assign bit rate to be a value from 1 ~ 170.

          1 :   30 Kbps

      170 :   5,100 Kbps

● [Quality] Scroll Bar

If Rate Control Mode is set to be CBR, you can assign video quality to be a value from 1 ~ 31.

The smaller this value, the better quality of video.

● [Rate Control Mode] Scroll Bar

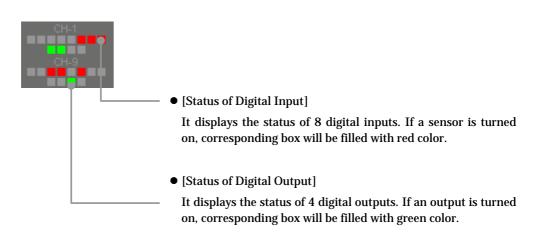Change video transfer rate control mode. If your preference can be easily described by quality of video, it is better to select VBR mode. If your concern is traffic of transferring video, we recommend selecting CBR mode.

❑ PTZ Tab   Obviously, this tab is work only when IVS has peripheral devices that have Pan/Tilt/Zoom, Preset,

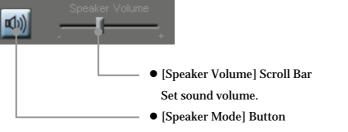Pattern, Swing, Group functions or Digital In/Out functions.

● [Preset] List
Show preset list.

● [Save] Button
Save current view to selected preset number.

● [Delete] Button
Delete information of selected preset number.

● [Move] Button
Move pan/tilt device to the position of selected number

● [Number] List
Select the number of Pattern, Swing and Group saved in the current PTZ camera.

● [Pattern] | [Swing] | [Group] Button
Run the pattern, swing or group function selected in above list. It is noted that all PTZ cameras doesn't support these functions. Consult with your camera

● [Iris] Button
Adjust the Iris of camera manually.

● [Focus] Button
Adjust the Focus of camera manually.

● [Zoom] Button
Adjust the optical zoom of camera

● [Digital Output] Button
Change the state of 4 channel digital outputs.

❑ I/O Tab   Obviously, this function is only available when Digital I/O module i.e. CIO-840 is connected with

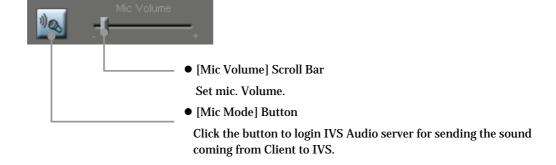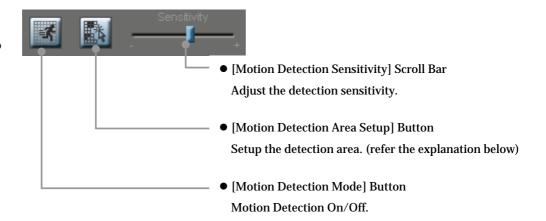IVS. If so, you can monitor current status of I/O module simultaneously.

● [Status of Digital Input]

It displays the status of 8 digital inputs. If a sensor is turned on, corresponding box will be filled with red color.

● [Status of Digital Output]

It displays the status of 4 digital outputs. If an output is turned on, corresponding box will be filled with green color.

❑ Audio Tab

● [Speaker Volume] Scroll Bar

Set sound volume.

● [Speaker Mode] Button

Click the button, you can hear the sound of device(ex Mic) connected IVS Audio in output as logining the IVS Audio server.

● [Mic Volume] Scroll Bar

Set mic. Volume.

● [Mic Mode] Button

Click the button to login IVS Audio server for sending the sound coming from Client to IVS.

❑ Motion
  Detection Tab

● [Motion Detection Sensitivity] Scroll Bar
  Adjust the detection sensitivity.

● [Motion Detection Area Setup] Button
  Setup the detection area. (refer the explanation below)
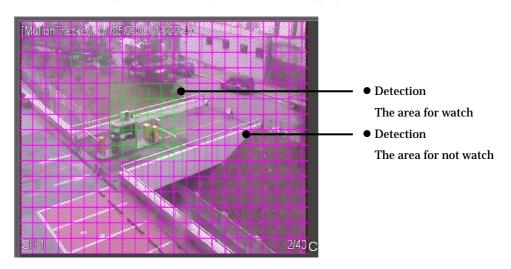
● [Motion Detection Mode] Button
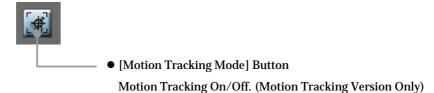 Motion Detection On/Off.

[Motion Detection Area Setup] Click the button, the screen shows the grid.

Click the area to watch, then the color of the selected cell is changed as the picture below.
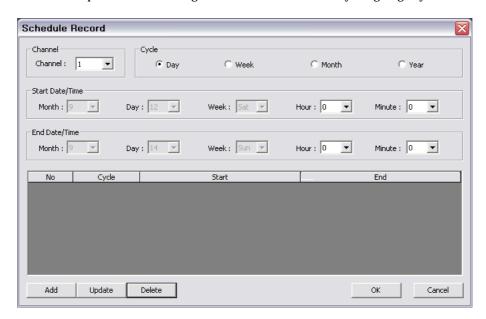
To cancel it, click again. You can easily cancel it with dragging.

● Detection
  The area for watch
● Detection
  The area for not watch

❑ Motion
Tracking Tab

● [Motion Tracking Mode] Button
  Motion Tracking On/Off. (Motion Tracking Version Only)

❑ Schedule

   Record

Click the [Schedule Record]button as shown bellow on the [Recording] Tab.

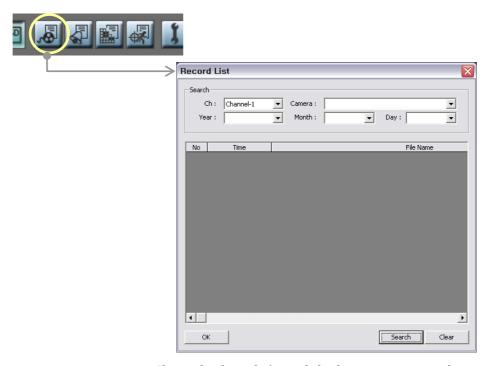You can set up schedule recording function for each channel by assigning day and time.

- ● Channel   The channel to be recorded.
- ● Cycle   Record video periodically by assigned year/month/week/day.
- ● Start Date/Time   The date & time to start recording.
- ● End Date/Time   The date & time to end recording.
- ● Add   Adds a schedule item to the list.
- ● Update   Update the schedule list.
- ● Delete   Remove the selected schedule item from the list.

Ex)   First line in the list shows a schedule which records the video of current channel from 17:00 to 18:00 every day.

       Second line in the list describes a schedule which records the video of current channel from 06:00 Saturday to 22:00 Sunday every week.
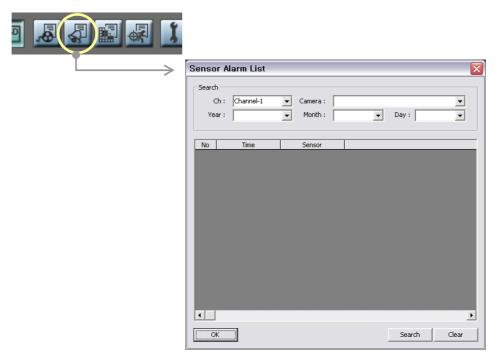
❑ Record List   You can search and playback the recorded videos. Click the [Record List] button in [General] tab.

● Choose the channel of recorded video you want to search.
  If there is file recorded in the channel you select, the list of the camera and Year / Month / Day of the file is shown.

● Select the name of the camera.

● Select the Year, Month and Day and press the [Search] button. The recorded video files of the data will be listed up in the box.

● To delete a file in the list, press the [Clear} button

● To play back the recorded video file, please, double click the file.

❑ Sensor Alarm
List

If [Sensor Alarm] function is enabled, you can search and playback the recorded videos at the events of I/O module. Click the [Sensor Alarm List] button in [General] tab.
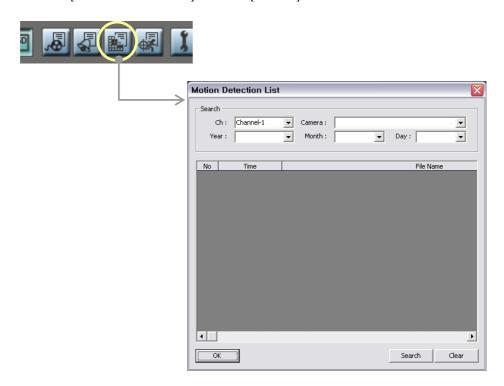

● Choose the channel of recorded video you want to search.
If there is file recorded from the Sensor Alarm in the channel you select, the list of the camera and Year / Month / Day of the file is shown.

● Select the name of the camera.

● Select the Year, Month and Day and press the [Search] button. The recorded video files of the data will be listed up in the box.

● The Column of 'Sensor' shows the status of sensor when the video is recorded. (O: ON, X: OFF)

● To delete a file in the list, press the [Clear] button

● To play back the recorded video file, please, double click the file.

❑ Motion
Detection List

If [Motion Detection] function is enabled, you can search and playback the recorded videos at the events of Motion Detection.

Click the [Motion Detection List] button in [General] tab.

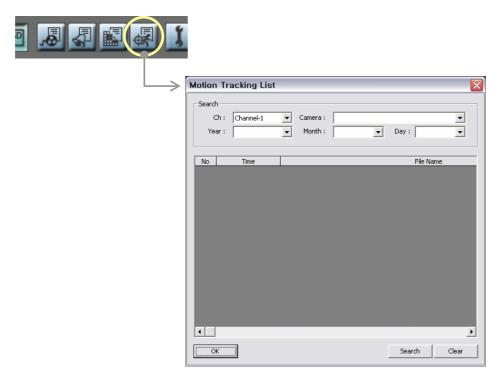- Choose the channel of recorded video you want to search.
  If there is file recorded from the Motion Detection in the channel you select, the list of the camera and Year / Month / Day of the file is shown.

- Select the name of the camera.

- Select the Year, Month, and Day and press the [Search] button. The recorded video files of the date will be listed up in the box.

- To delete a file in the list, press the [Clear} button

- To play back the recorded video file, please, double click the file.

❏ Motion
  Tracking List

If [Motion Tracking] function is enabled, you can search and playback the recorded videos at the events of Motion Tracking. (Motion Tracking Version Only)

Click the [Motion Tracking List] button in [General] tab.

● Choose the channel of recorded video you want to search.
  If there is file recorded from the Motion Tracking in the channel you select, the list of the camera and Year / Month / Day of the file is shown.

● Select the name of the camera.

● Select the Year, Month, and Day and press the [Search] button. The recorded video files of the date will be listed up in the box.

● To delete a file in the list, press the [Clear} button

● To play back the recorded video file, please, double click the file.

Controlling Pan/Tilt

❑ Pan/Tilt Control   This function works with cameras having Pan/Tilt motion capability.

● If Pan tilt camera is interfaced correctly, arrow buttons are changed to active mode.

● Press one of the arrow buttons to move the camera. The camera will keep moving while you are pressing a button and will stop when you release arrow button.

ⓘ   If Pan/Tilt Control does not work properly, check the followings

   ● Check whether the camera has Pan/Tilt function or not.

   ● Check whether the cable between IVS and camera is correctly connected.

   ● Check whether your authority is Administrator or Operator account.

   ● Using Admin Tool of web viewer, check whether you selected the proper PTZ protocol.

Playback of Recorded Video

❑ Playback
- **To playback the recorded video using i-Pro II Viewer, a codec called `ffdshow' is required.**

- The directory structure for the files recorded is assigned.

  ⓘ **Folder or Drive\Record\Channel-No \Camera_Name\Recording Date**
     * Folder or Drive is designated in Setup.

     Example) D:\ Record \ Channel-1 \ CAM \ 20060707 \ 2006070712.avi

- To playback the video, go to the directory and find out the file. If you double click the Icon, default video player (Windows Media player) will playback the video.