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Bluenet Video i-Pro Viewer is the software that enables users to monitor and record the images of Network Cameras and Network Video Servers (NVS) at up to 16 different locations simultaneously. The i-Pro viewer also allows its users the ability to control networked, Pan/Tilt/Zoom (PTZ) cameras from any computer which has the i-Pro software installed on it. In addition, a digital In/Out function is available with the optional, digital In/Out module available from Bluenet Video.

- 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
1. Execute the [i-Pro Viewer Setup.exe] file to install the program.
   Select your language and click [OK] button.

2. Click [Next >] button.

3. Assign the directory to be installed.
   To change the directory, click [Browse...] button.
   Click [Next >] button.

4. Assign the program folder to be installed.
   Click [Next >] button.
5 Wait until the process finishes.
   To cancel it, click [Cancel] button.

6 Click [Finish] button.
   Go to [Start] → [Program] → [BluenetVideo] to locate
   [i-Pro Viewer] folder.
GUI Overview

- Display Window: Shows images from NVS or network camera.
- Channel Selection Buttons: Enables user to select the channel to control.
- Monitoring Option Buttons: Simultaneous Multi-Channel (1/4/9/16 channel), Sequential and Full Screen Monitoring.
- P/T Control Panel: Pan/Tilt Control. (Pan/Tilt and Zoom functions are available on networked PTZ cameras with this button enabled)
- Status Window: Shows Date & Time, Free HDD Space and Digital Input Status.
- Function Tab & Button: NVS or Network Camera Connection, Setup, Record, Zoom Control, Image Attributes Controls.
Setup

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

  The default password is '1234'.

- Setup
  Click this button to set up the program.

- Setup-General

  ![Setup-General screenshot]

  - Launch on Startup
    Runs automatically as soon as Windows starts.
  - Auto Connect
    Connects to NVS or network camera automatically as soon as it starts.
  - Language
    Language selection.
  - Detect Language
    Detects the language version of Windows.
  - Password
    Password setup
  - Clear Connect Information
    Deletes all the previous connection information.
  - Caption
    Selects the items to be displayed on OSD.
  - Scan Interval
    Specifies the amount of time it shows images in the Sequential Monitoring Mode (1 ~ 20 sec)
### Setup-Recording

![i-PRO GUI Description](image)

- **Record Interval**: Frame rate to record. [FPS: Frame(s) per Second]
- **Folder**: Specifies the directory to record data.
- **Recording Size**: Shows HDD Status.
- **Disk Margin**: Specifies the HDD space not to record. (100MB~1GB)
- **Delete Old Files**: Overwriting Option. Lets a user decide whether to overwrite the old files or not when the HDD is full.
NVS/Network Camera Registration

- Registration
  - Click the [Connect] button in the [General] tab.
  - Adds & Deletes NVS or network camera connection information. Group Configuration Available.
  - Select [General] group and click the right button of your mouse for the menu. And click [New Site] menu.
  - Input Server or Camera Name, Server IP address, Video Port, User ID, User Password.
  - User ID & Password must be the ID & Password of your NVS or network camera.
  - Alphanumeric character can be used as Server Name. But Server Name must start with alphabet character.
  - For DDNS users
    - Check the box next to DDNS Service
    - Video Port prompt will be de-activated
  - Click [Connect] to connect your NVS or network camera.

- Connect All
  - Click [Connect All] to connect all NVS or network cameras registered
Monitoring

Channel Selection

- Buttons highlighted in **violet**: Currently connected.
- Buttons highlighted in **green**: Currently selected to control the channel.
- Buttons highlighted in **blue**: Currently not connected and not selected.

Monitoring Option

- Simultaneous Multi-Channel monitoring (1/4/9/16 CH).
- Expands images to full screen of your monitor without GUI. To return to images with GUI, press [esc] button or click the right button of your mouse.
- Moves to the previous channel.
- Moves to the next channel.
- Sequential Monitoring. Refer to the scan interval.

### Sequential Monitoring by Channel.

- **Single Display**
  - CH1 → CH2 → ······ → CH16

- **4-Split Display**
  - CH1~4 → CH5~8 → CH9~12 → CH13~16

- **9-Split Display**
  - CH1~9 → CH8~16

- **16-Split Display**
  - Not Defined

Adjust the scan time on the general tab in setup.
General Tab

- **[Exit] Button**
  Exit the program. You need the password.

- **[i-PRO Player] Button**
  Playback the data recorded by i-Pro.

- **[Setup] Button**
  Set up the program. All channels must be disconnected when choosing these settings.

- **[OSD] Button**
  On/Off button for On Screen Display. OSD shows camera name, date & time, number of online users.

- **[All Disconnect] Button**
  Disconnects all devices connected on the i-Pro.

- **[All Connect] Button**
  Connects all devices which is registered on the i-Pro simultaneously.

- **[Connect/Disconnect] Button**
  Connect or Disconnect the selected channel.
Record Tab

- [Image Capture] Button
  Saves an image in JPEG format.

- [Schedule Record] Button
  Refer to the [Recording Setup] for more information.
  ① All channels should be disconnected to set it up.

- [All Record Stop] Button
  Stops the recording function of all the channels.

- [All Record] Button
  Records all the channels which are connected to i-Pro.
  ① The directory for the recording data can be set in the Setup window.

- [Record] Button
  Records the selected channel.
  ① The directory for the recording data can be set in the Setup window.
Control Tab

This tab is available for peripheral devices that have Pan/Tilt/Zoom, Preset, Digital In/Out functions.

- [Preset] List
  Shows preset list.

- [Save] Button
  Saves the current Pan/Tilt positions and overwrites the previous information.

- [Delete] Button
  Deletes all the previous information of the selected presets.

- [Move] Button
  Sets the pan/tilt device to move to selected preset positions.

- [Digital Output] Button
  Controls the 2 channel digital output.

- [Iris] Button
  Adjust the Iris of camera.

- [Focus] Button
  Adjust the Focus of camera.

- [Zoom] Button
  Adjust the optical zoom of camera.
- [Image Tab]

- [Color] Adjustment Bar
  (-) position: Black & White
  (+) position: Color

- [Contrast] Adjustment Bar
  Contrast Adjustment (0 ~ 127)

- [Brightness] Adjustment Bar
  Brightness Adjustment (0 ~ 255)

- [Quality] Adjustment Bar
  Video Quality Adjustment (5 Level)
  The better video quality, the slower transmission speed.

- [Resolution] Adjustment Bar
  Video Resolution Adjustment (160×120, 320×240, 640×480).
Recording Setup

Click the [Schedule Recording] button in the Recording Tab.

Sets up automatic schedule recording function of each channel with assigned date & time.

- **Channel**: The channel to record.
- **Cycle**: Enables a user to record images 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 recording list.
- **Update**: Update the schedule recording lists.
- **Delete**: Deletes a schedule recording list.

**Example**)
The NO. 1 shows that i-Pro records the images of the selected channel from 17:01 to 18:01 every day.
The NO. 2 shows that i-Pro records the images of the selected channel from 06:01 to 08:01 every Saturday.
Pan/Tilt Control

The function is available for peripheral devices that have Pan/Tilt functions.

- Click center of [P/T Control] Button to control the Pan/Tilt device. If the peripheral device does not have Pan/Tilt function, the [P/T Control] Button does not work.

  ① A “P” should appear in upper right corner of viewing area when Pan/Tilt functions are enabled.

- The button of the Control Panel works.

- Press the arrows to make the Pan/Tilt device move. The device continues to move while you are pressing the arrows and stops moving when you stop pressing the arrows.

① Check the followings if Pan/Tilt Control does not turn on.

- Whether the peripheral device has Pan/Tilt function or not.
- Whether the connection between NVS and the peripheral device is correct or not.
- Whether your authority is Administrator(Operator) or not.
- Whether you selected a proper protocol in the Administration Tools of NVS.
**GUI Description**

- **Menu**: Search and play the recorded data. [Help] menu indicates version of i-Pro Player.
- **Status Indicator**: Shows the information of the file currently being displayed such as the recorded date & time, the frame number / the total frame number. Example) 50/100 : The i-Pro Player is displaying the 50th frame of the total 100 frames.
- **Playback Button**: Plays the recorded data. If clicked on during playback, the playback stops.
- **Pause Button**: Pauses playback. Click it once more to continue with playback.
- **Search Slide Bar**: Shows the frame number of the image currently being displayed. Move the button on the Slide Bar to search through the file.
- **Play Speed**: Shows the frame rate speed of the playback. Click the arrow mark to adjust its playback speed. (0.01sec ~ 1sec)
Menu Description

- **Playback**
  - [Select [File Open] in the [File] menu.
  - Select the file to be displayed.

  Location of recoding file.
  The folder assigned in the RECORD\Channel-NO. \Camera_Name \Recording Date Example) \Record\Channel-1\CAM\20040621

- **Recoding List**
  - [Select [Recoding List] in the [File] menu.

  ![Recoding List](image)
  - [Channel] : Select the channel to search.
  - [Camera Name] : Select the camera name to search
  - Select Year/Month/Date and click [Search]
  - Click [Delete] button to remove a file
Select [Property] in the [File] menu to see the information on the file currently being displayed.

- **File Name**: The file name currently being displayed.
- **File Size**: The file size currently being displayed.
- **Camera Name**: The camera name where the recorded data came from.
- **Width/Height**: Image Resolution.
- **Date**: The date of the recorded data.
- **Start/End Time**: The start/end time of the recorded data.
- **Total Frame**: The total frame number of the file currently being displayed.